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(54) **Titre : METHODES DE PREDICTION ET DE SURVEILLANCE DE LA CICATRISATION DES MUQUEUSES**
(54) **Title: METHODS FOR PREDICTING AND MONITORING MUCOSAL HEALING**

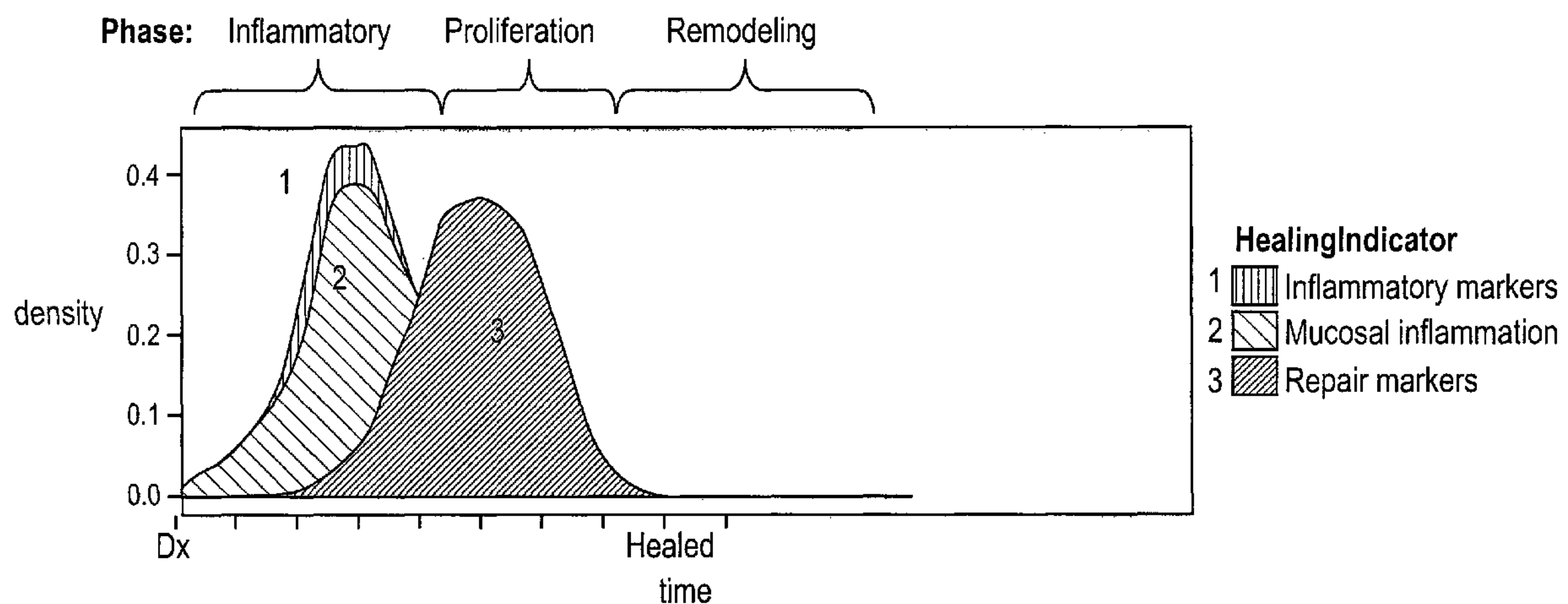


FIG. 1

(57) **Abrégé/Abstract:**

The present invention provides methods for predicting the likelihood of mucosal healing in an individual with a disease such as inflammatory bowel disease (IBD). In addition, the present invention provides methods for monitoring the progression of mucosal healing in an individual with a disease such as IBD. Information on mucosal healing status derived from the use of the present invention can also aid in optimizing therapy and/or monitoring the therapeutic efficiency of an anti-TNF α inhibitor drug.

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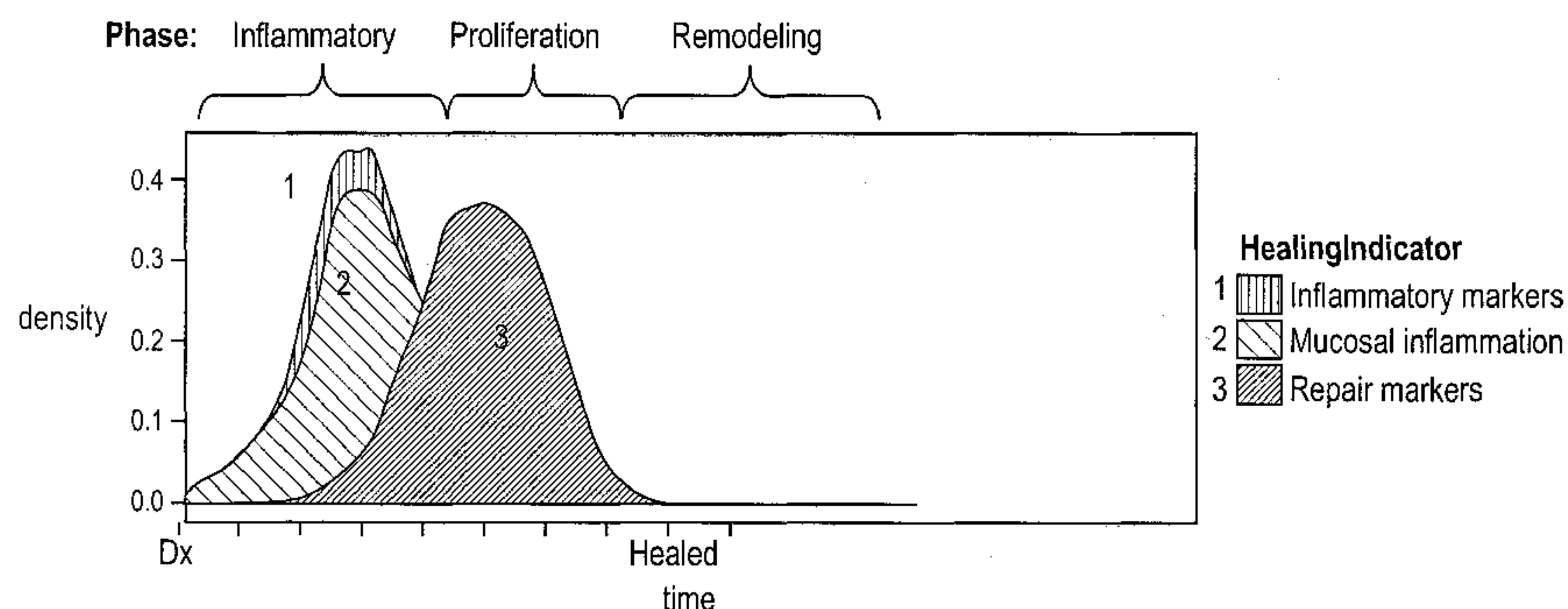


FIG. 1

(57) Abstract: The present invention provides methods for predicting the likelihood of mucosal healing in an individual with a disease such as inflammatory bowel disease (IBD). In addition, the present invention provides methods for monitoring the progression of mucosal healing in an individual with a disease such as IBD. Information on mucosal healing status derived from the use of the present invention can also aid in optimizing therapy and/or monitoring the therapeutic efficiency of an anti-TNF α inhibitor drug.

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JUMBO APPLICATIONS/PATENTS

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METHODS FOR PREDICTING AND MONITORING MUCOSAL HEALING

CROSS-REFERENCES TO RELATED APPLICATIONS

[0001] This application claims priority to U.S. Provisional Application No. 61/710,491, filed October 5, 2012, and U.S. Provisional Application No. 61/824,959, filed May 17, 2013, the disclosures of which are hereby incorporated by reference in their entirety for all purposes.

BACKGROUND OF THE INVENTION

[0002] Inflammatory bowel disease (IBD) which includes Crohn's disease (CD) and ulcerative colitis (UC) is a chronic idiopathic inflammatory disorder affecting the gastrointestinal tract.

Disease progression of CD and UC includes repeated episodes of inflammation and ulceration of the intestine, leading to complications requiring hospitalization, surgery and escalation of

therapy (Peyrin-Biroulet *et al.*, *Am. J. Gastroenterol.*, 105: 289-297 (2010); Langholz E., *Dan. Med. Bull.*, 46: 400-415 (1999)). Current treatments such as anti-tumor necrosis factor-alpha

(TNF- α) biologics (*e.g.*, infliximab (IFX), etanercept, adalimumab (ADL) and certolizumab pegol), thiopurine drugs (*e.g.*, azathioprine (AZA), 6-mercaptopurin (6-MP)), anti-inflammatory drugs (*e.g.*, mesalazine), and steroids (*e.g.*, corticosteroids) have been shown to reduce disease

activity. In some clinical trials of CD, mucosal healing (MH) which is described as the absence of intestinal ulcers, was induced in patients receiving combination therapy of corticosteroids and IFX or ADL. Furthermore, MH was maintained in patients receiving IFX.

[0003] Other studies have shown that mucosal healing can be a hallmark of suppression of bowel inflammation and can predict long-term disease remission (Froslie *et al.*,

Gastroenterology, 133: 412-422 (2007); Baert *et al.*, *Gastroenterology*, (2010)). Long-term mucosal healing has been associated with a decreased risk of colectomy and colorectal cancer in UC patients, a decreased need for corticosteroid treatment in CD patients, and possibly a decreased need for hospitalization (Dave *et al.*, *Gastroenterology & Hepatology*, 8(1): 29-38 (2012)).

[0004] The process of mucosal healing can be divided into three phase, beginning with bleeding (*e.g.*, degradation of the endothelial layers of the blood vessels) and inflammation, then progression to cell and tissue proliferation, and finally tissue remodeling. At the inflammation stage, cytokines, chemokines and other inflammatory signaling molecules are secreted by immune cells in the gut mucosa. During proliferation, tissue repair and remodeling growth factors activate intestinal epithelial cells to proliferate, migrate to the sites of injury and repair the damaged tissue. At the remodeling phase, structural and functional improvements occur to the intestinal mucosal barrier. The present invention is based on the identification of novel markers of mucosal healing that are predictive of the phases of the process.

[0005] There is an unmet need in the art for non-invasive methods for predicting the likelihood of mucosal healing and/or monitoring the progression of mucosal healing in patients with IBD or other inflammatory diseases. This information enables the personalized therapeutic management of the disease, such as allowing for appropriate selection and/or administration of therapy. The present invention satisfies this need and provides related advantages as well.

BRIEF SUMMARY OF THE INVENTION

[0006] Provided herein is a method for predicting the likelihood of mucosal healing in a subject. The method comprises the steps of: (a) measuring a first set of markers to form an inflammatory phase marker score; (b) measuring a second set of markers to form a proliferation phase marker score; (c) comparing the inflammatory phase marker score to the proliferation phase marker score; and (d) predicting the likelihood of mucosal healing based upon the comparison in step (c).

[0007] In some embodiments, the subject has an inflammatory bowel disease (IBD). In some instances, the inflammatory bowel disease is Crohn's disease or ulcerative colitis.

[0008] In some embodiments, the first set of markers comprises one or more of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, an anti-drug antibody (ADA), and combinations thereof. In some instances, the first set of markers comprises one or more of GMCSF, IL-2, and VCAM.

[0009] In some embodiments, the second set of markers comprises one or more of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19,

SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL-10, and an anti-TNF α antibody. In some instances, the second set of markers comprises HGF.

[0010] In some embodiments, each marker is assigned a value of from 0 to 6 based upon the concentration or level of the marker.

5 [0011] In some embodiments, the concentration or level of the marker is relative to the level of the same marker in a patient population without mucosal healing.

[0012] In some embodiments, the value for each marker in the first set of markers is summed to form the inflammatory phase marker score. In some embodiments, the value for each marker in the second set of markers is summed to form the proliferation phase marker score.

10 [0013] In some embodiments, the comparison in step (c) comprises applying an algorithm incorporating the inflammatory phase marker score and the proliferation phase marker score.

[0014] In some embodiments, the algorithm comprises subtracting the inflammatory phase marker score from the proliferation phase marker score to form a biomarker score of the subject.

15 [0015] In some embodiments, the subject has an increased likelihood of having complete improvement of mucosal healing without relapse when the biomarker score of the subject is higher than the biomarker score of a patient population without mucosal healing.

[0016] In some embodiments, the algorithm predicts the likelihood of mucosal healing independent of clinical confounders. In some instances, the clinical confounders comprise one or more selected from the group consisting of age of diagnosis, age of last sample, disease
20 location, anal involvement, smoking, and surgery.

[0017] In some embodiments, the algorithm predicts the likelihood of mucosal healing by excluding serology markers. In other words, the algorithm can predict the likelihood of mucosal healing without the use of serology markers. In particular embodiments, the excluded serology markers comprise one or more selected from the group consisting of ASCA-A, ASCA-G, CBir1, Fla2, FlaX, and OmpC.
25

[0018] In some embodiments, the subject is receiving an anti-TNF α antibody. In some embodiments, the anti-TNF α antibody comprises one or more of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), and CIMZIA® (certolizumab pegol).

[0019] In some embodiments, the marker is measured in a sample selected from the group consisting of serum, plasma, whole blood, stool, peripheral blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells, a tissue biopsy, and combinations thereof.

[0020] Also provided herein is a method for monitoring the progression of mucosal healing in a subject. The method comprises the steps of: (a) measuring a first set of markers at a plurality of time points to form a plurality of inflammatory phase marker scores; (b) measuring a second set of markers at a plurality of time points to form a plurality of proliferation phase marker scores; (c) comparing the inflammatory phase marker score to the proliferation phase marker score at each time point and across the plurality of time points; and (d) monitoring the progression of mucosal healing based upon the comparison in step (c).

[0021] In some embodiments, the subject has an inflammatory bowel disease (IBD). In some instances, the inflammatory bowel disease is Crohn's disease or ulcerative colitis.

[0022] In some embodiments, the first set of markers comprises one or more of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and an anti-drug antibody (ADA). In some instances, the first set of markers comprises one or more of GMCSF, IL-2, and VCAM.

[0023] In some embodiments, the second set of markers comprises one or more of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL-10, and an anti-TNF α antibody. In some instances, the second set of markers comprises HGF.

[0024] In some embodiments, each marker is assigned a value of from 0 to 6 based upon the concentration or level of the marker.

[0025] In some embodiments, the concentration or level of the marker is relative to the level of the same marker in a patient population without mucosal healing.

[0026] In some embodiments, the value for each marker in the first set of markers is summed to form the inflammatory phase marker score. In some embodiments, the value for each marker in the second set of markers is summed to form the proliferation phase marker score.

[0027] In some embodiments, the comparison in step (c) comprises applying an algorithm incorporating the inflammatory phase marker score and the proliferation phase marker score.

[0028] In some embodiments, the algorithm comprises subtracting the inflammatory phase marker score from the proliferation phase marker score to form a biomarker score of the subject
5 at each time point.

[0029] In some embodiments, the subject is progressing through the phases of mucosal healing when the biomarker score of the subject increases at each time point over the plurality of time points. In some instances, the subject is progressing from a phase of mucosal healing selected from an inflammatory phase and a proliferation phase onto the next phase of mucosal healing.

10 [0030] In some embodiments, the algorithm monitors the progression of mucosal healing independent of clinical confounders. In some instances, the clinical confounders comprise one or more selected from the group consisting of age of diagnosis, age of last sample, disease location, anal involvement, smoking, surgery, and combinations thereof.

15 [0031] In some embodiments, the algorithm monitors the progression of mucosal healing by excluding serology markers. In other words, the algorithm can predict the progression of mucosal healing without the use of serology markers. In certain embodiments, the excluded serology markers comprise one or more selected from the group consisting of ASCA-A, ASCA-G, CBir1, Fla2, FlaX, and OmpC.

20 [0032] In some embodiments, the subject is receiving an anti-TNF α antibody. In some embodiments, the anti-TNF α antibody comprises one or more of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), and CIMZIA® (certolizumab pegol).

[0033] In some embodiments, the marker at each time point is measured in a sample selected from the group consisting of serum, plasma, whole blood, stool, peripheral blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells, and a tissue biopsy.

25 [0034] In some embodiments, the method further comprises optimizing therapeutic efficacy of an anti-TNF α antibody therapy based upon the progression of mucosal healing in the subject.

[0035] In yet other embodiments, the method further comprises selecting an appropriate therapeutic regimen based upon the progression of mucosal healing in the subject.

[0036] Other objects, features, and advantages of the present invention will be apparent to one of skill in the art from the following detailed description and figures.

BRIEF DESCRIPTION OF THE DRAWINGS

[0037] FIG. 1 illustrates the three phases of mucosal healing -- inflammatory phase,
5 proliferation phase and remodeling phase.

[0038] FIG. 2 shows representative data of clinical outcome for an individual who exhibited mucosal improvement (FIG. 2A) and an individual who experienced relapse after exhibiting complete improvement (FIG 2B).

[0039] FIG. 3 depicts the clinical status of individuals who have healed (FIG. 3A) and
10 individuals who have never healed (FIG. 3B).

[0040] FIG. 4 shows the marker distributions between two extremes in the mucosal healing continuum -- individuals who have never healed and individuals who have completely healed.

[0041] FIG. 5 depicts a table of inflammatory markers that are associated with mucosal
15 healing. For GM-CSF, IL2, VCAM and HGF, lower marker values are predictive of mucosal healing.

[0042] FIG. 6A-B show a schematic of the individual patient analysis strategy that compares the expression of various markers in “true” healed individuals (FIG. 6A) to not healed individuals (FIG. 6B).

[0043] FIG. 7A-F show inflammatory marker data used to identify “true” healed individuals.
20 Individuals exhibiting low inflammation were selected for the individual patient analysis study.

[0044] FIG. 8A-D show clinical data (e.g., ATI and/or IFX status) and the levels (e.g., concentration) of repair factor markers in samples from Patient #1, a “true” healed individual.

[0045] FIG. 9 A-D show data of inflammatory, anti-inflammatory and serology markers for Patient #1.

[0046] FIG. 10 A-D show clinical data and the levels of repair factor markers in samples from
25 Patient #2, a “true” healed individual.

[0047] FIG. 11 A-D show data of inflammatory, anti-inflammatory and serology markers for Patient #2.

[0048] FIG. 12 A-D show clinical data and the levels of repair factor markers in samples from Patient #3, a “true” healed individual.

5 [0049] FIG. 13 A-D show data of inflammatory, anti-inflammatory and serology markers for Patient #3.

[0050] FIG. 14 A-D show clinical data and the levels of repair factor markers in samples from Patient #4, a “true” healed individual.

10 [0051] FIG. 15 A-D show data of inflammatory, anti-inflammatory and serology markers for Patient #4.

[0052] FIG. 16 A-D shows clinical data and the levels of repair factor markers in samples from Patient #5, a not healed individual.

[0053] FIG. 17 A-D show data of inflammatory, anti-inflammatory and serology markers for Patient #5.

15 [0054] FIG. 18 A-D show clinical data and the levels of repair factor markers in samples from Patient #6, a not healed individual.

[0055] FIG. 19 A-D show data of inflammatory, anti-inflammatory and serology markers for Patient #6.

20 [0056] FIG. 20 A-D show clinical data and the levels of repair factor markers in samples from Patient #7, a not healed individual.

[0057] FIG. 21 A-D show data of inflammatory, anti-inflammatory and serology markers for Patient #7.

[0058] FIG. 22 A-D show clinical data and the levels of repair factor markers in samples from Patient #8, a not healed individual.

25 [0059] FIG. 23 A-D show data of inflammatory, anti-inflammatory and serology markers for Patient #8.

[0060] FIG. 24 A-D show illustrative data of repair factor markers (*e.g.*, HER ligands, FGFs, PDGFs, and VEGFs) and clinical outcome from a theoretical patient progressing from the inflammatory phase (year 1), proliferation phase (year 2), and remodeling phase (year 3).

[0061] FIG. 25 A-C show illustrative data of inflammatory and anti-inflammatory markers (*e.g.*, markers detected by CEER and inflammatory markers) and clinical outcome from a theoretical patient progressing from the inflammatory phase (year 1), proliferation phase (year 2), and remodeling phase (year 3).

[0062] FIG. 26 shows the number of individuals in the study missing a particular marker.

[0063] FIG. 27 is a graph of the distribution of biomarker scores in the patient population of the study.

[0064] FIG. 28 shows that the biomarker score was predictive of having complete improvement without relapse.

[0065] FIG. 29 shows that after controlling for potential clinical confounders, the biomarker score was predictive of having complete improvement without relapse.

[0066] FIG. 30 shows the distribution of the biomarker scores for the two populations analyzed: individuals with complete improvement without relapse and individuals who never healed.

[0067] FIG. 31 shows that the biomarker score, determined without serology marker data was predictive of having complete improvement without relapse.

[0068] FIG. 32 shows that after controlling for potential clinical confounders, the biomarker score of FIG. 31 was predictive of having complete improvement without relapse.

[0069] FIG. 33 shows the distribution of the biomarker scores of FIG. 32 for the two populations analyzed.

[0070] FIG. 34A-C show statistical data from the combined marker analysis wherein removal of a single marker from the marker set was tested.

DETAILED DESCRIPTION OF THE INVENTION

I. Introduction

[0071] Anti-TNF α drugs such as infliximab (IFX) and adalimumab (ADA), promote mucosal healing in inflammatory bowel disease (IBD) patients. In fact, in clinical trials, endoscopic mucosal healing is a marker of the anti-inflammatory action of biological anti-TNF α drugs.

[0072] One underlying principle of the present invention is that IBD such as Crohn's disease and ulcerative colitis is better understood when viewed as a wound of the intestinal mucosal. Like other wounds of epithelial tissue, three phases of healing occur. As is shown in FIG. 1, a subject having IBD and being treated with an anti-TNF α drug, will progress through an inflammatory phase, a proliferation phase, and finally a remodeling phase. This mucosal healing mechanism occurs over time and is facilitated by anti-TNF α drugs while being treated.

[0073] The inflammatory phase occurs first and during this phase, bacteria and foreign debris are removed from the wound. Inflammatory markers are present at their highest concentration levels during this phase. Next, the proliferative phase is characterized by tissue formation, epithelialization, and wound contraction. In this phase, epithelial cells that are activated by growth factors and repair factors proliferate and provide cover for the new tissue. During the remodeling phase, the wound contracts and is made smaller by the action of myofibroblasts, which establish a grip on the wound edges and contract themselves, thereby healing the wound. A person just beginning therapy will most likely be in the inflammation phase and progress with a proper therapeutic regimen to the remodeling phase. And eventually, the intestinal mucosa will be restored.

[0074] Using the invention provided herein, it is possible to identify and determine the "phase" a particular subject is in at any particular time and predict the likelihood of mucosal healing (*e.g.*, progression through the phases of mucosal healing towards complete improvement thereof). In addition, the present invention can be used to monitor a subject's progression through the phases of mucosal healing over a plurality of time points. The present invention can also be used to determine whether a patient has an increased likelihood of having complete improvement of mucosal healing without relapse. Furthermore, the present invention provides methods for optimizing therapeutic efficiency for an anti-TNF α antibody therapy and for selecting an appropriate therapeutic regimen based on the progression of mucosal healing in the subject.

II. Definitions

[0075] As used herein, the following terms have the meanings ascribed to them unless specified otherwise.

[0076] The term “mucosal healing” refers to restoration of normal mucosal appearance of a previously inflamed region, and complete absence of ulceration and inflammation at the endoscopic and microscopic levels. Mucosal healing includes repair and restoration of the mucosa, submucosa, and muscularis layers. It can also include neuronal and lymphangiogenic elements of the intestinal wall.

[0077] The term “progression of mucosal healing” refers to a transition through the phases (*e.g.*, stages) of mucosal healing from inflammatory phase, proliferation phase and remodeling phase towards complete improvement (*e.g.*, complete repair) of the intestinal mucosa.

[0078] The term “complete improvement of mucosal healing without relapse” refers to a disease state wherein a patient having a disease such as IBD is undergoing or has undergone complete repair of the mucosa such that it is free of inflammation and/or an ulceration.

[0079] The terms “marker” and “biomarker” include any biochemical markers, serological markers, protein markers, genetic markers, and/or other clinical or echographic characteristics, that can be measured in a sample. In certain embodiments, a marker of the invention can be used to detect mucosal healing in a sample from an individual with a disease such as IBD including Crohn’s disease and ulcerative colitis.

[0080] The term “marker score” or “biomarker score” includes an empirically derived score that is based upon an analysis of a plurality of markers such as, *e.g.*, inflammatory markers, anti-inflammatory markers, repair factor markers, serology markers, level of anti-TNF α antibody, and level of anti-drug antibody. In one aspect, a first set of markers such as the concentration of the markers or their measured concentration values are transformed into an inflammatory phase marker score by an algorithm resident on a computer. In another aspect, a second set of markers such as the concentration of the markers or their measured concentration values are transformed into a proliferation phase marker score by an algorithm resident on a computer. A marker score can be determined multiple times over the course of different time points. In certain aspects, the

marker score comprises or corresponds to a synthetic or human derived output, value, or cut off value(s) which expresses the biological data in numerical terms.

[0081] The term “TNF α ” is intended to include a human cytokine that exists as a 17 kDa secreted form and a 26 kDa membrane associated form, the biologically active form of which is composed of a trimer of noncovalently bound 17 kDa molecules. The structure of TNF α is described further in, for example, Jones *et al.*, *Nature*, 338:225-228 (1989). The term TNF α is intended to include human TNF α , a recombinant human TNF α (rhTNF- α), or TNF α that is at least about 80% identity to the human TNF α protein. Human TNF α consists of a 35 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 177 aa extracellular domain (ECD) (Pennica, D. *et al.* (1984) *Nature* 312:724). Within the ECD, human TNF α shares 97% aa sequence identity with rhesus TNF α , and 71% to 92% aa sequence identity with bovine, canine, cotton rat, equine, feline, mouse, porcine, and rat TNF α . TNF α can be prepared by standard recombinant expression methods or purchased commercially (R & D Systems, Catalog No. 210-TA, Minneapolis, Minn.).

[0082] In certain embodiments, “TNF α ” is an “antigen,” which includes a molecule or a portion of the molecule capable of being bound by an anti-TNF- α drug. TNF α can have one or more than one epitope. In certain instances, TNF α will react, in a highly selective manner, with an anti-TNF α antibody. Preferred antigens that bind antibodies, fragments, and regions of anti-TNF α antibodies include at least 5 amino acids of human TNF α . In certain instances, TNF α is a sufficient length having an epitope of TNF α that is capable of binding anti-TNF α antibodies, fragments, and regions thereof.

[0083] The terms “TNF inhibitor”, “TNF- α inhibitor,” “TNF α inhibitor” and anti TNF α drug” are intended to encompass agents including proteins, antibodies, antibody fragments, fusion proteins (*e.g.*, Ig fusion proteins or Fc fusion proteins), multivalent binding proteins (*e.g.*, DVD Ig), small molecule TNF- α antagonists and similar naturally- or nonnaturally-occurring molecules, and/or recombinant and/or engineered forms thereof, that, directly or indirectly, inhibits TNF α activity, such as by inhibiting interaction of TNF- α with a cell surface receptor for TNF- α , inhibiting TNF- α protein production, inhibiting TNF- α gene expression, inhibiting TNF α secretion from cells, inhibiting TNF- α receptor signaling or any other means resulting in decreased TNF- α activity in a subject. The term “TNF α inhibitor” preferably includes agents

which interfere with TNF- α activity. Examples of TNF- α inhibitors (anti-TNF α drug) include etanercept (ENBREL™, Amgen), infliximab (REMICADE™, Johnson and Johnson), human anti-TNF monoclonal antibody adalimumab (D2E7/HUMIRA™, Abbott Laboratories), CDP 571 (Celltech), and CDP 870 (Celltech), as well as other compounds which inhibit TNF- α activity, such that when administered to a subject suffering from or at risk of suffering from a disorder in which TNF- α activity is detrimental (*e.g.*, IBD), the disorder is treated.

[0084] The terms “anti-drug antibody” and “ADA” are intended to encompass a human anti-chimeric antibody (HACA), a human anti-humanized antibody (HAHA), a human anti-mouse antibody (HAMA). The terms “antibodies to infliximab” and “ATI” refer to antibodies against the anti-TNF α antibody drug infliximab.

[0085] The term “subject,” “patient,” or “individual” typically refers to humans, but also to other animals including, *e.g.*, other primates, rodents, canines, felines, equines, ovines, porcines, and the like.

[0086] The term “patient population without mucosal healing” includes a group of patients wherein the patient has IBD and inflammation and/or an ulceration in the intestinal mucosa. In some instances, the intestinal mucosa of such a patient has not or has never healed. For example, the patient can be in the inflammatory phase of mucosal healing.

[0087] The term “clinical confounder” refers to an extraneous variable based on clinical observations that can be statistically related to or correlated with an independent variable, *e.g.*, the concentration or level of a marker. Clinical confounders for predicting mucosal healing in inflammatory bowel disease patients can include one or more of age of diagnosis, age of last sample, disease location, anal involvement, smoking, surgery, socioeconomic status, gender, diet, *etc.*

[0088] The term “sample” as used herein includes any biological specimen obtained from a patient. Samples include, without limitation, whole blood, plasma, serum, red blood cells, white blood cells (*e.g.*, peripheral blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells), ductal lavage fluid, nipple aspirate, lymph (*e.g.*, disseminated tumor cells of the lymph node), bone marrow aspirate, saliva, urine, stool (*i.e.*, feces), sputum, bronchial lavage fluid, tears, fine needle aspirate (*e.g.*, harvested by random periareolar fine needle aspiration), any other bodily

fluid, a tissue sample such as a biopsy of a site of inflammation (*e.g.*, needle biopsy), and cellular extracts thereof. In some embodiments, the sample is whole blood or a fractional component thereof such as plasma, serum, or a cell pellet. In other embodiments, the sample is obtained by isolating PBMCs and/or PMN cells using any technique known in the art. In other embodiments, the sample is a tissue biopsy, *e.g.*, tissue obtained from a site of inflammation such as a portion of the gastrointestinal tract or synovial tissue.

III. Description of the Embodiments

[0089] The methods described herein can be used for predicting the likelihood of mucosal healing in a subject. In some embodiments, the subject has an inflammatory bowel disease. In some instances, the inflammatory bowel disease is Crohn's disease or ulcerative colitis.

[0090] In one aspect of the invention provided herein, the method includes (a) measuring a first set of markers to form an inflammatory phase marker score; (b) measuring a second set of markers to form a proliferation phase marker score; (c) comparing the inflammatory phase marker score to the proliferation phase marker score; and (d) predicting the likelihood of mucosal healing based upon the comparison in step (c).

[0091] In some embodiments, the first set of markers includes one or more of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, an anti-drug antibody (ADA), and combinations thereof. In one embodiment, the first set of markers includes one or more of GMCSF, IL-2, VCAM, and combinations thereof.

[0092] In some embodiments, the second set of markers includes one or more of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL-10, an anti-TNF α antibody, and combinations thereof. In one embodiment, the second set of markers includes HGF.

[0093] In some embodiments, the anti-drug antibody (ADA) is a member selected from the group consisting of a human anti-chimeric antibody (HACA), a human anti-humanized antibody (HAHA), a human anti-mouse antibody (HAMA), and combinations thereof.

[0094] In some embodiments, the anti-TNF α antibody is a member selected from the group consisting of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), CIMZIA® (certolizumab pegol), and combinations thereof.

[0095] Each marker of the first set and/or the second set may be assigned a value based upon the concentration or level of the marker. In particular embodiments, each marker of the first set and/or the second set is assigned a value of from 0 to 6 based upon the concentration or level of the marker.

[0096] In some embodiments, one or more markers selected from the group consisting of EGF, AREG, EREG, HBEGF, HGF, HRGB, BTC, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, and TWEAK is measured using a CEER assay. In certain embodiments, the value of the marker is based upon 6 standard samples for each marker.

[0097] In some embodiments, one or more markers selected from the group consisting of an anti-TNF α antibody and ADA is measured using a homogeneous mobility shift assay (HMSA). In certain embodiments, the value of the marker is based on a quantile level for each marker.

[0098] In some embodiments, one or more markers selected from the group consisting of IL10, CRP, ICAM, SAA, VCAM, IL2, IL8, IL12p70, IL1B, GMCSF, IFN γ , IL6, TNF α , ASCAA, ASCAG, CBir1, Fla2, FlaX, and OmpC is measured using an immunoassay. In some instances, the value of the marker is based on a quantile level for each marker.

[0099] In some embodiments, the concentration or level of the marker is relative to the level of the same marker in a patient population without mucosal healing (*e.g.*, an IBD patient population without mucosal healing). The value for each marker in the first set of markers can be summed to form the inflammatory phase marker score. The value for each marker in the second set of markers can be summed to form the proliferation phase marker score.

[0100] In some embodiments, the comparison in step (c) includes applying an algorithm incorporating the inflammatory phase marker score and the proliferation phase marker score. In some instances, the algorithm includes subtracting the inflammatory phase marker score from the proliferation phase marker score to form a biomarker score of the subject.

[0101] In some embodiments, if the biomarker score of the subject is higher than the biomarker score of a patient population without mucosal healing, the subject has an increased likelihood of having complete improvement of mucosal healing without relapse.

[0102] In some embodiments, the algorithm predicts the likelihood of mucosal healing independent of clinical confounders. In some instances, the clinical confounders include one or more selected from the group consisting of age of diagnosis, age of last sample, disease location, anal involvement, smoking, surgery, and combinations thereof.

[0103] In other embodiments, the algorithm predicts the likelihood of mucosal healing by excluding serology markers. In some embodiments, the excluded serology markers include one or more selected from the group consisting of ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and combinations thereof. For example, in some embodiments, the algorithm used for predicting the likelihood of mucosal healing does not include (e.g., excludes, is without, or is independent of) values (e.g., scores or measurements, such as, concentrations, amounts or levels) of serology markers, such as ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, or combinations thereof.

[0104] In some embodiments, the subject is receiving an anti-TNF α antibody. In some instances, the anti-TNF α antibody includes one or more of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), CIMZIA® (certolizumab pegol), and combinations thereof.

[0105] In some embodiments, the marker is measured in a sample from the subject selected from the group consisting of serum, plasma, whole blood, stool, peripheral blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells, a tissue biopsy, and combinations thereof.

[0106] Also, the methods provided herein can be used for monitoring the progression of mucosal healing in a subject. In some embodiments, the subject has an inflammatory bowel disease. In some instances, the inflammatory bowel disease is Crohn's disease or ulcerative colitis.

[0107] In one aspect of the invention provided herein, the method includes the steps of: (a) measuring a first set of markers at a plurality of time points to form a plurality of inflammatory phase marker scores; (b) measuring a second set of markers at a plurality of time points to form a plurality of proliferation phase marker scores; (c) comparing the inflammatory phase marker

score to the proliferation phase marker score at each time point and across the plurality of time points; and (d) monitoring the progression of mucosal healing based upon the comparison in step (c).

[0108] In some embodiments, the first set of markers includes one or more of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, an anti-drug antibody (ADA), and combinations thereof. In some instances, the first set of markers includes one or more of GMCSF, IL-2, VCAM, and combinations thereof.

[0109] In some embodiments, the second set of markers includes one or more of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL-10, an anti-TNF α antibody, and combinations thereof. In some instances, the second set of markers includes HGF.

[0110] In some embodiments, the anti-drug antibody (ADA) is a member selected from the group consisting of a human anti-chimeric antibody (HACA), a human anti-humanized antibody (HAHA), a human anti-mouse antibody (HAMA), and combinations thereof.

[0111] In some embodiments, the anti-TNF α antibody is a member selected from the group consisting of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), CIMZIA® (certolizumab pegol), and combinations thereof.

[0112] Each marker of the first set and/or the second set may be assigned a value based upon the concentration or level of the marker. In particular embodiments, each marker of the first set and/or the second set is assigned a value of from 0 to 6 based upon the concentration or level of the marker.

[0113] In some embodiments, one or more markers selected from the group consisting of EGF, AREG, EREG, HBEGF, HGF, HRGB, BTC, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, and TWEAK is measured using a CEER assay. In certain embodiments, the value of the marker is based upon 6 standard samples for each marker.

[0114] In some embodiments, one or more markers selected from the group consisting of an anti-TNF α antibody and ADA is measured using a homogeneous mobility shift assay (HMSA). In certain embodiments, the value of the marker is based on a quantile level for each marker.

[0115] In some embodiments, one or more markers selected from the group consisting of IL10, CRP, ICAM, SAA, VCAM, IL2, IL8, IL12p70, IL1B, GMCSF, IFN γ , IL6, TNF α , ASCAA, ASCAG, CBir1, Fla2, FlaX, and OmpC is measured using an immunoassay. In some instances, the value of the marker is based on a quantile level for each marker.

[0116] In some embodiments, the concentration or level of the marker is relative to the level of the same marker in a patient population without mucosal healing (*e.g.*, an IBD patient population without mucosal healing). The value for each marker in the first set of markers can be summed to form the inflammatory phase marker score. The value for each marker in the second set of markers can be summed to form the proliferation phase marker score.

[0117] In some embodiments, the comparison in step (c) includes applying an algorithm incorporating the inflammatory phase marker score and the proliferation phase marker score. In some instances, the algorithm includes subtracting the inflammatory phase marker score from the proliferation phase marker score to form a biomarker score of the subject at each time point.

[0118] In some embodiments, the subject is progressing through the phases of mucosal healing when the biomarker score of the subject increases at each time point over the plurality of time points. In some instances, the subject is progressing from a phase of mucosal healing selected from an inflammatory phase and a proliferation phase onto the next phase of mucosal healing.

[0119] The algorithm of the method provided herein can monitor the progression of mucosal healing independent of clinical confounders. In some instances, the clinical confounders include one or more selected from the group consisting of age of diagnosis, age of last sample, disease location, anal involvement, smoking, surgery, and combinations thereof.

[0120] In other embodiments, the algorithm monitors the progression of mucosal healing by excluding serology markers. In some embodiments, the excluded serology markers include one or more selected from the group consisting of ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and combinations thereof. For example, in some instances, the algorithm used for monitoring the progression of mucosal healing does not include (*e.g.*, excludes, is without, or is independent

of) values (*e.g.*, scores or measurements, such as, concentrations, amounts or levels) of serology markers, such as ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, or combinations thereof.

[0121] The subject of the methods provided herein can be receiving an anti-TNF α antibody. In some instances, the anti-TNF α antibody includes one or more of REMICADE™ (infliximab),
 5 ENBREL™ (etanercept), HUMIRA™ (adalimumab), CIMZIA® (certolizumab pegol), and combinations thereof.

[0122] In some embodiments, the marker at each time point is measured in a sample selected from the group consisting of serum, plasma, whole blood, stool, peripheral blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells, a tissue biopsy, and combinations thereof.

10 [0123] In some embodiments, the plurality of time points comprises at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 30, 35, 40, 45, 50, or more time points.

[0124] In some embodiments, the method further includes optimizing therapeutic efficacy of an anti-TNF α antibody therapy based upon the progression of mucosal healing in the subject.

15 [0125] In yet other embodiments, the method further includes selecting an appropriate therapeutic regimen based upon the progression of mucosal healing in the subject.

A. Additional Embodiments of the Invention

[0126] The methods described herein are also useful for identifying the phase of mucosal healing, such as an inflammatory phase, a proliferation phase, or a remodeling phase, in a subject, (*e.g.*, an individual having IBD and receiving anti-TNF α therapy). As such, in one
 20 embodiment, the method can be further used to select or administer an appropriate therapy.

[0127] In some embodiments, the method includes the steps of: (a) measuring a first set of markers to form an inflammatory phase marker score; (b) measuring a second set of markers to form a proliferation phase marker score; (c) identifying the phase of mucosal healing of the subject by using an algorithm incorporating the inflammatory phase marker score and the
 25 proliferation phase marker score; and (d) selecting an appropriate therapy based upon the phase of mucosal healing of the subject.

[0128] In some embodiments, the subject has inflammatory bowel disease. In some aspects, inflammatory bowel disease is Crohn's disease or ulcerative colitis.

[0129] In some embodiments, the first set of markers comprises one or more selected from the group consisting of TWEAK, CRP, ICAM, SAA, VCAM, IL2, IL8, IL12p70, IL1 β , GMCSF, IFN γ , IL6, TNF α , ASCAA, ASCAG, CBir1, Fla2, FlaX, OmpC, an anti-drug antibody (ADA), and combinations thereof. In some embodiments, the second set of markers comprises one or more selected from the group consisting of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL10, an anti-TNF α antibody, and combinations thereof.

[0130] In some embodiments, the anti-drug antibody (ADA) is a member selected from the group consisting of a human anti-chimeric antibody (HACA), a human anti-humanized antibody (HAHA), a human anti-mouse antibody (HAMA), and combinations thereof.

[0131] In some embodiments, the anti-TNF α antibody is a member selected from the group consisting of REMICADE[™] (infliximab), ENBREL[™] (etanercept), HUMIRA[™] (adalimumab), CIMZIA[®] (certolizumab pegol), and combinations thereof.

[0132] Each marker of the first set and/or the second set may be assigned a value based upon the concentration or level of the marker. In particular embodiments, each marker of the first set and/or the second set is assigned a value of from 0 to 6 based upon the concentration or level of the marker.

[0133] In some embodiments, one or more markers selected from the group consisting of EGF, AREG, EREG, HBEGF, HGF, HRGB, BTC, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, and TWEAK is measured using a CEER assay. In some instances, the value of the marker described herein is based upon 6 standard samples for each marker.

[0134] In some embodiments, one or more markers selected from the group consisting of an anti-TNF α antibody and ADA is measured using a homogeneous mobility shift assay (HMSA).

In some instances, the value of the marker is based on a quantile level for each marker.

[0135] In some embodiments, one or more markers selected from the group consisting of IL10, CRP, ICAM, SAA, VCAM, IL2, IL8, IL12p70, IL1 β , GMCSF, IFN γ , IL6, TNF α , ASCAA, ASCAG, CBir1, Fla2, FlaX, and OmpC is measured using an immunoassay. In some instances, the value of the marker is based on a quantile level for each marker.

[0136] In some embodiments, each marker is measured in a sample selected from the group consisting of serum, plasma, whole blood, stool, peripheral blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells, a tissue biopsy, and combinations thereof.

[0137] In some embodiments, the concentration or level of the marker is relative to the level of the same marker in a patient population without mucosal healing (*e.g.*, an IBD patient population without mucosal healing). The value for each marker in the first set of markers can be summed to form the inflammatory phase marker score. The value for each marker in the second set of markers can be summed to form the proliferation phase marker score. In some embodiments, the algorithm is the summation of the proliferation phase marker values minus the summation of the inflammatory phase marker values.

[0138] The algorithm of the method provided herein can identify the phase of mucosal healing independent of clinical confounders. In some instances, the clinical confounders include one or more selected from the group consisting of age of diagnosis, age of last sample, disease location, anal involvement, smoking, surgery, and combinations thereof.

[0139] In other embodiments, the algorithm identifies the phase of mucosal healing by excluding serology markers. In some embodiments, the excluded serology markers include one or more selected from the group consisting of ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and combinations thereof. For example, in some instances, the algorithm used for identifying the phase of mucosal healing does not include (*e.g.*, excludes, is without, or is independent of) values (*e.g.*, scores or measurements, such as, concentrations, amounts or levels) of serology markers, such as ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, or combinations thereof.

[0140] In certain embodiments, the method of identifying the phase of mucosal healing in a subject can be used to select or administer an anti-TNF α antibody. In some instances, the anti-TNF α antibody includes one or more of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), CIMZIA® (certolizumab pegol), and combinations thereof.

[0141] In addition, the methods provided herein can be used for monitoring mucosal healing in a subject in order to optimize therapeutic efficacy. In some embodiments, the method includes (a) measuring a first set of markers to form an inflammatory phase marker score; (b) measuring a second set of markers to form a proliferation phase marker score; (c) monitoring mucosal healing

in the subject by using an algorithm incorporating the inflammatory phase marker score and the proliferation phase marker score; and (d) optimizing therapeutic efficacy of an anti-TNF α antibody therapy based upon the mucosal healing in the subject.

[0142] In some embodiments, the subject has inflammatory bowel disease. In some aspects,
5 inflammatory bowel disease is Crohn's disease or ulcerative colitis.

[0143] In some embodiments, the first set of markers comprises one or more selected from the group consisting of TWEAK, CRP, ICAM, SAA, VCAM, IL2, IL8, IL12p70, IL1 β , GMCSF, IFN γ , IL6, TNF α , ASCAA, ASCAG, CBir1, Fla2, FlaX, OmpC, an anti-drug antibody (ADA), and combinations thereof. In some embodiments, the second set of markers comprises one or
10 more selected from the group consisting of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL10, an anti-TNF α antibody, and combinations thereof.

[0144] In some embodiments, the anti-drug antibody (ADA) is a member selected from the group consisting of a human anti-chimeric antibody (HACA), a human anti-humanized antibody
15 (HABA), a human anti-mouse antibody (HAMA), and combinations thereof.

[0145] In some embodiments, the anti-TNF α antibody is a member selected from the group consisting of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), CIMZIA® (certolizumab pegol), and combinations thereof.

[0146] Each marker of the first set and/or the second set may be assigned a value based upon
20 the concentration or level of the marker. In particular embodiments, each marker of the first set and/or the second set is assigned a value of from 0 to 6, *e.g.*, 0, 1, 2, 3, 4, 5, or 6, based upon the concentration or level of the marker.

[0147] In some embodiments, one or more markers selected from the group consisting of EGF, AREG, EREG, HBEGF, HGF, HRGB, BTC, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19,
25 SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, and TWEAK is measured using a CEER assay. In some instances, the value of the marker described herein is based upon 6 standard samples for each marker.

[0148] In some embodiments, one or more markers selected from the group consisting of an anti-TNF α antibody and ADA is measured using a homogeneous mobility shift assay (HMSA). In some instances, the value of the marker is based on a quantile level for each marker.

[0149] In some embodiments, one or more markers selected from the group consisting of IL-10, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GM-CSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, and OmpC is measured using an immunoassay. In some instances, the value of the marker is based on a quantile level for each marker.

[0150] In some embodiments, each marker is measured in a sample selected from the group consisting of serum, plasma, whole blood, stool, peripheral blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells, and a tissue biopsy.

[0151] In some embodiments, the concentration or level of the marker is relative to the level of the same marker in a patient population without mucosal healing (*e.g.*, an IBD patient population without mucosal healing). The value for each marker in the first set of markers can be summed to form the inflammatory phase marker score. The value for each marker in the second set of markers can be summed to form the proliferation phase marker score. In some embodiments, the algorithm is the summation of the proliferation phase marker values minus the summation of the inflammatory phase marker values.

[0152] The algorithm of the method provided herein can monitor mucosal healing independent of clinical confounders. In some instances, the clinical confounders include one or more selected from the group consisting of age of diagnosis, age of last sample, disease location, anal involvement, smoking, surgery, and combinations thereof.

[0153] In other embodiments, the algorithm monitors mucosal healing by excluding serology markers. In some embodiments, the excluded serology markers include one or more selected from the group consisting of ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and combinations thereof. For example, in some instances, the algorithm used for monitoring mucosal healing does not include (*e.g.*, excludes, is without, or is independent of) values (*e.g.*, scores or measurements, such as, concentrations, amounts or levels) of serology markers, such as ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, or combinations thereof.

[0154] In certain embodiments, the method of monitoring mucosal healing in a subject can be used to optimize therapeutic efficacy by selecting or administering an appropriate anti-TNF α antibody. In some instances, the anti-TNF α antibody includes one or more of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), CIMZIA® (certolizumab pegol), and combinations thereof.

[0155] Also, the methods provided herein are useful for selecting a therapeutic regimen for a subject by monitoring mucosal healing. In some embodiments, the method includes the steps of: (a) measuring a first set of markers to form an inflammatory phase marker score, wherein the inflammatory phase marker score is measured at a plurality of time points over the course of therapy; (b) measuring a second set of markers to form a proliferation phase marker score, wherein the proliferation phase marker score is measured at a plurality of time points over the course of therapy; (c) monitoring mucosal healing in the subject by using an algorithm incorporating the inflammatory phase marker score and the proliferation phase marker score; and (d) selecting an appropriate therapeutic regimen for the individual, wherein the therapeutic regimen promotes mucosal healing and is based upon the algorithm.

[0156] In some embodiments, the subject has inflammatory bowel disease. In some aspects, inflammatory bowel disease is Crohn's disease or ulcerative colitis.

[0157] In some embodiments, the first set of markers is one or more selected from the group consisting of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GM-CSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, an anti-drug antibody (ADA), and combinations thereof. In some embodiments, the second set of markers is one or more selected from the group consisting of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL-10, an anti-TNF α antibody, and combinations thereof.

[0158] In some embodiments, the anti-drug antibody (ADA) is a member selected from the group consisting of a human anti-chimeric antibody (HACA), a human anti-humanized antibody (HABA), a human anti-mouse antibody (HAMA), and combinations thereof.

[0159] In some embodiments, the anti-TNF α antibody is a member selected from the group consisting of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), CIMZIA® (certolizumab pegol), and combinations thereof.

[0160] Each marker of the first set and/or the second set may be assigned a value based upon the concentration or level of the marker. In particular embodiments, each marker of the first set and/or the second set is assigned a value of from 0 to 6 based upon the concentration or level of the marker.

[0161] In some embodiments, one or more markers selected from the group consisting of EGF, AREG, EREG, HBEGF, HGF, HRGB, BTC, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, and TWEAK is measured using a CEER assay. In some instances, the value of the marker described herein is based upon 6 standard samples for each marker.

[0162] In some embodiments, one or more markers selected from the group consisting of an anti-TNF α antibody and ADA is measured using a homogeneous mobility shift assay (HMSA). In some instances, the value of the marker is based on a quantile level for each marker.

[0163] In some embodiments, one wherein one or more markers selected from the group consisting of IL10, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, and OmpC is measured using an immunoassay. In some instances, the value of the marker is based on a quantile level for each marker.

[0164] In some embodiments, each marker is measured in a sample selected from the group consisting of serum, plasma, whole blood, stool, peripheral blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells, and a tissue biopsy.

[0165] In some embodiments, the concentration or level of the marker is relative to the level of the same marker in a patient population without mucosal healing (*e.g.*, an IBD patient population without mucosal healing). The value for each marker in the first set of markers can be summed to form the inflammatory phase marker score. The value for each marker in the second set of markers can be summed to form the proliferation phase marker score. In some embodiments, the

algorithm is the summation of the proliferation phase marker values minus the summation of the inflammatory phase marker values.

[0166] The algorithm of the method provided herein can monitor mucosal healing independent of clinical confounders. In some instances, the clinical confounders include one or more selected from the group consisting of age of diagnosis, age of last sample, disease location, anal involvement, smoking, surgery, and combinations thereof.

[0167] In other embodiments, the algorithm monitors mucosal healing by excluding serology markers. In some embodiments, the excluded serology markers include one or more selected from the group consisting of ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and combinations thereof. For example, in some instances, the algorithm used for monitoring mucosal healing does not include (*e.g.*, excludes, is without, or is independent of) values (*e.g.*, scores or measurements, such as, concentrations, amounts or levels) of serology markers, such as ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, or combinations thereof.

[0168] In certain embodiments, the method of monitoring mucosal healing in a subject can be used to select an appropriate anti-TNF α antibody for the subject. In some instances, the anti-TNF α antibody includes one or more of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), CIMZIA® (certolizumab pegol), and combinations thereof.

[0169] In some embodiments, the plurality of time points comprises at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 30, 35, 40, 45, 50, or more time points.

[0170] In addition, the methods provided herein are useful for predicting the likelihood of mucosal healing in a subject. In some embodiments, the method includes the steps of: (a) measuring a first set of markers to form an inflammatory phase marker score; (b) measuring a second set of markers to form a proliferation phase marker score; (c) monitoring mucosal healing in the subject by using an algorithm incorporating the inflammatory phase marker score and the proliferation phase marker score; and (d) predicting the likelihood of mucosal healing based upon the algorithm.

[0171] In some embodiments, the subject has inflammatory bowel disease. In some aspects, inflammatory bowel disease is Crohn's disease or ulcerative colitis.

[0172] In some embodiments, the first set of markers is one or more selected from the group consisting of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL1- β , GMCSF, IFN γ , IL6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, an anti-drug antibody (ADA), and combinations thereof. In some embodiments, the second set of markers is one or more selected from the group consisting of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL-10, an anti-TNF α antibody, and combinations thereof.

[0173] In some embodiments, the anti-drug antibody (ADA) is a member selected from the group consisting of a human anti-chimeric antibody (HACA), a human anti-humanized antibody (HAHA), a human anti-mouse antibody (HAMA), and combinations thereof.

[0174] In some embodiments, the anti-TNF α antibody is a member selected from the group consisting of REMICADE[™] (infliximab), ENBREL[™] (etanercept), HUMIRA[™] (adalimumab), CIMZIA[®] (certolizumab pegol), and combinations thereof.

[0175] Each marker of the first set and/or the second set may be assigned a value based upon the concentration or level of the marker. In particular embodiments, each marker of the first set and/or the second set is assigned a value of from 0 to 6, *e.g.*, 0, 1, 2, 3, 4, 5, or 6, based upon the concentration or level of the marker.

[0176] In some embodiments, one or more markers selected from the group consisting of EGF, AREG, EREG, HBEGF, HGF, HRGB, BTC, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, and TWEAK is measured using a CEER assay. In some instances, the value of the marker described herein is based upon 6 standard samples for each marker.

[0177] In some embodiments, one or more markers selected from the group consisting of an anti-TNF α antibody and ADA is measured using a homogeneous mobility shift assay (HMSA).

In some instances, the value of the marker is based on a quantile level for each marker.

[0178] In some embodiments, one or more markers selected from the group consisting of IL10, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL1 β , GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, and OmpC is measured using an immunoassay. In some instances, the value of the marker is based on a quantile level for each marker.

[0179] In some embodiments, each marker is measured in a sample selected from the group consisting of serum, plasma, whole blood, stool, peripheral blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells, and a tissue biopsy.

5 [0180] In some embodiments, the concentration or level of the marker is relative to the level of the same marker in a patient population without mucosal healing (*e.g.*, an IBD patient population without mucosal healing). The value for each marker in the first set of markers can be summed to form the inflammatory phase marker score. The value for each marker in the second set of markers can be summed to form the proliferation phase marker score. In some embodiments, the algorithm is the summation of the proliferation phase marker values minus the summation of the
10 inflammatory phase marker values.

[0181] The algorithm of the method provided herein can predict the likelihood of mucosal healing independent of clinical confounders. In some instances, the clinical confounders include one or more selected from the group consisting of age of diagnosis, age of last sample, disease location, anal involvement, smoking, surgery, and combinations thereof.

15 [0182] In other embodiments, the algorithm predicts the likelihood of mucosal healing by excluding serology markers. In some embodiments, the excluded serology markers include one or more selected from the group consisting of ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and combinations thereof. For example, in some instances, the algorithm used for predicting the likelihood of mucosal healing does not include (*e.g.*, excludes, is without, or is independent of)
20 values (*e.g.*, scores or measurements, such as, concentrations, amounts or levels) of serology markers, such as ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, or combinations thereof.

[0183] In certain embodiments, the method of predicting the likelihood of mucosal healing in a subject can be used to select an appropriate therapeutic regimen such as an anti-TNF α antibody. In some instances, the anti-TNF α antibody includes one or more of REMICADE™ (infliximab),
25 ENBREL™ (etanercept), HUMIRA™ (adalimumab), CIMZIA® (certolizumab pegol), and combinations thereof.

[0184] In some embodiments, the algorithm is used to predict relapse of a disease.

[0185] The methods described herein can be used to evaluate the phase of mucosal healing, such as an inflammatory phase, a proliferation phase, or a remodeling phase, in an IBD

individual receiving anti-TNF α therapy. In certain aspects, in both UC and CD patients, as shown herein, mucosal healing can change the natural course of the disease by decreasing relapse rates, and/or the need for surgery. Still further, mucosal healing can reduce the development of long-term disease complications, such as bowel damage in CD and colorectal cancer in UC. Thus, it is important to continually monitor a subject while on therapies to ensure the progress of mucosal healing.

B. Measuring Markers

[0186] As described herein, the methods for assessing mucosal healing in a subject include measuring the concentration or level of a first set of markers used to form the inflammatory phase marker score, wherein at least one or a plurality (*e.g.*, at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20) of the markers are selected from the group consisting of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, an anti-drug antibody (ADA), and combinations thereof. In some embodiments, the methods include measuring a combination of at least two markers selected from the group consisting of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and an ADA, *e.g.*, TWEAK and CRP, TWEAK and ICAM, TWEAK and SAA, TWEAK and VCAM, TWEAK and IL-2, TWEAK and IL-8, TWEAK and IL-12p70, TWEAK and IL-1 β , TWEAK and GMCSF, TWEAK and IFN γ , TWEAK and IL-6, TWEAK and TNF α , TWEAK and ASCA-A, TWEAK and ASCA-G, TWEAK and CBir1, TWEAK and Fla2, TWEAK and FlaX, TWEAK and OmpC, TWEAK and ADA, CRP and ICAM, CRP and SAA, CRP and VCAM, CRP and IL-2, CRP and IL-8, CRP and IL-12p70, CRP and IL-1 β , CRP and GMCSF, CRP and IFN γ , CRP and IL-6, CRP and TNF α , CRP and ASCA-A, CRP and ASCA-G, CRP and CBir1, CRP and Fla2, CRP and FlaX, CRP and OmpC, CRP and ADA, ICAM and SAA, ICAM and VCAM, ICAM and IL-2, ICAM and IL-8, ICAM and IL-12p70, ICAM and IL-1 β , ICAM and GMCSF, ICAM and IFN γ , ICAM and IL-6, ICAM and TNF α , ICAM and ASCA-A, ICAM and ASCA-G, ICAM and CBir1, ICAM and Fla2, ICAM and FlaX, ICAM and OmpC, ICAM and ADA, SAA and VCAM, SAA and IL-2, IL-8, SAA and IL-12p70, SAA and IL-1 β , SAA and GMCSF, SAA and IFN γ , SAA and IL-6, SAA and TNF α , SAA and ASCA-A, SAA and ASCA-G, SAA and CBir1, SAA and Fla2, SAA and FlaX, SAA and OmpC, SAA and ADA, VCAM

and IL-2, VCAM and IL-8, VCAM and IL-12p70, VCAM and IL-1 β , VCAM and GMCSF, VCAM and IFN γ , VCAM and IL-6, VCAM and TNF α , VCAM and ASCA-A, VCAM and ASCA-G, VCAM and CBir1, VCAM and Fla2, VCAM and FlaX, VCAM and OmpC, VCAM and ADA, IL-2 and IL-8, IL-2 and IL-12p70, IL-2 and IL-1 β , IL-2 and GMCSF, IL-2 and IFN γ ,
5 IL-2 and IL-6, IL-2 and TNF α , IL-2 and ASCA-A, IL-2 and ASCA-G, IL-2 and CBir1, IL-2 and Fla2, IL-2 and FlaX, IL-2 and OmpC, IL-2 and ADA, IL-8 and IL-12p70, IL-8 and IL-1 β , IL-8 and GMCSF, IL-8 and IFN γ , IL-8 and IL-6, IL-8 and TNF α , IL-8 and ASCA-A, IL-8 and ASCA-G, IL-8 and CBir1, IL-8 and Fla2, IL-8 and FlaX, IL-8 and OmpC, IL-8 and ADA, IL-12p70 and IL-1 β , IL-12p70 and GMCSF, IL-12p70 and IFN γ , IL-12p70 and IL-6, IL-12p70 and
10 TNF α , IL-12p70 and ASCA-A, IL-12p70 and ASCA-G, IL-12p70 and CBir1, IL-12p70 and Fla2, IL-12p70 and FlaX, IL-12p70 and OmpC, IL-12p70 and ADA, , IL-1 β and GMCSF, IL-1 β and IFN γ , IL-1 β and IL-6, IL-1 β and TNF α , IL-1 β and ASCA-A, IL-1 β and ASCA-G, IL-1 β and CBir1, IL-1 β and Fla2, IL-1 β and FlaX, IL-1 β and OmpC, IL-1 β and ADA, GMCSF and IFN γ , GMCSF and IL-6, GMCSF and TNF α , GMCSF and ASCA-A, GMCSF and ASCA-G, GMCSF and CBir1, GMCSF and Fla2, GMCSF and FlaX, GMCSF and OmpC, GMCSF and ADA, IFN γ and IL-6, IFN γ and TNF α , IFN γ and ASCA-A, IFN γ and ASCA-G, IFN γ and CBir1, IFN γ and Fla2, IFN γ and FlaX, IFN γ and OmpC, IFN γ and ADA, IL-6 and TNF α , IL-6 and ASCA-A, IL-6 and ASCA-G, IL-6 and CBir1, IL-6 and Fla2, IL-6 and FlaX, IL-6 and OmpC, IL-6 and ADA, TNF α and ASCA-A, TNF α and ASCA-G, TNF α and CBir1, TNF α and Fla2, TNF α and FlaX,
20 TNF α and OmpC, TNF α and ADA, ASCA-A and ASCA-G, ASCA-A and CBir1, ASCA-A and Fla2, ASCA-A and FlaX, ASCA-A and OmpC, ASCA-A and ADA, ASCA-G and CBir1, ASCA-G and Fla2, ASCA-G and FlaX, ASCA-G and OmpC, ASCA-G and ADA, CBir1 and Fla2, CBir1 and FlaX, CBir1 and OmpC, CBir1 and ADA, Fla2 and FlaX, Fla2 and OmpC, Fla2 and ADA, FlaX and OmpC, FlaX and ADA, OmpC and ADA, and the like. In some instances,
25 the combination of at least two markers can further include at least 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, or 18 of the other markers selected from the first set of markers to form an inflammatory phase marker score.

[0187] In some embodiments, the methods include measuring a combination of at least three markers selected from the group consisting of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC,
30 and an ADA, *e.g.*, TWEAK, CRP and ICAM; TWEAK, CRP and SAA; TWEAK, CRP and

VCAM; TWEAK, CRP and IL-2; TWEAK, CRP and IL-8; TWEAK, CRP and IL-12p70;
TWEAK, CRP and IL-1 β ; TWEAK, CRP and GMCSF; TWEAK, CRP and IFN γ ; TWEAK,
CRP and IL-6; TWEAK, CRP and TNF α ; TWEAK, CRP and ASCA-A; TWEAK, CRP and
ASCA-G; TWEAK, CRP and CBir1; TWEAK, CRP and Fla2; TWEAK, CRP and FlaX;
5 TWEAK, CRP and OmpC; TWEAK, CRP and ADA; TWEAK, ICAM and SAA; TWEAK,
ICAM and VCAM; TWEAK, ICAM and IL-2; TWEAK, ICAM and IL-8; TWEAK, ICAM and
IL-12p70; TWEAK, ICAM and IL-1 β ; TWEAK, ICAM and GMCSF; TWEAK, ICAM and
IFN γ ; TWEAK, ICAM and IL-6; TWEAK, ICAM and TNF α ; TWEAK, ICAM and ASCA-A;
TWEAK, ICAM and ASCA-G; TWEAK, ICAM and CBir1; TWEAK, ICAM and Fla2;
10 TWEAK, ICAM and FlaX; TWEAK, ICAM and OmpC; TWEAK, ICAM and ADA; TWEAK,
SAA and VCAM; TWEAK, SAA and IL-2; TWEAK, SAA and IL-8; TWEAK, SAA and IL-
12p70; TWEAK, SAA and IL-1 β ; TWEAK, SAA and GMCSF; TWEAK, SAA and IFN γ ;
TWEAK, SAA and IL-6; TWEAK, SAA and TNF α ; TWEAK, SAA and ASCA-A; TWEAK,
SAA and ASCA-G; TWEAK, SAA and CBir1; TWEAK, SAA and Fla2; TWEAK, SAA and
15 FlaX; TWEAK, SAA and OmpC; TWEAK, SAA and ADA; TWEAK, VCAM and IL-2;
TWEAK, VCAM and IL-8; TWEAK, VCAM and IL-12p70; TWEAK, VCAM and IL-1 β ;
TWEAK, VCAM and GMCSF; TWEAK, VCAM and IFN γ ; TWEAK, VCAM and IL-6;
TWEAK, VCAM and TNF α ; TWEAK, VCAM and ASCA-A; TWEAK, VCAM and ASCA-G;
TWEAK, VCAM and CBir1; TWEAK, VCAM and Fla2; TWEAK, VCAM and FlaX; TWEAK,
20 VCAM and OmpC; TWEAK, VCAM and ADA; TWEAK, IL-2 and IL-8; TWEAK, IL-2 and
IL-12p70; TWEAK, IL-2 and IL-1 β ; TWEAK, IL-2 and GMCSF; TWEAK, IL-2 and IFN γ ;
TWEAK, IL-2 and IL-6; TWEAK, IL-2 and TNF α ; TWEAK, IL-2 and ASCA-A; TWEAK, IL-2
and ASCA-G; TWEAK, IL-2 and CBir1; TWEAK, IL-2 and Fla2; TWEAK, IL-2 and FlaX;
TWEAK, IL-2 and OmpC; TWEAK, IL-2 and ADA; TWEAK, IL-8 and IL-12p70; TWEAK,
25 IL-8 and IL-1 β ; TWEAK, IL-8 and GMCSF; TWEAK, IL-8 and IFN γ ; TWEAK, IL-8 and IL-6;
TWEAK, IL-8 and TNF α ; TWEAK, IL-8 and ASCA-A; TWEAK, IL-8 and ASCA-G; TWEAK,
IL-8 and CBir1; TWEAK, IL-8 and Fla2; TWEAK, IL-8 and FlaX; TWEAK, IL-8 and OmpC;
TWEAK, IL-8 and ADA; TWEAK, IL-12p70 and IL-1 β ; TWEAK, IL-12p70 and GMCSF;
TWEAK, IL-12p70 and IFN γ ; TWEAK, IL-12p70 and IL-6; TWEAK, IL-12p70 and TNF α ;
30 TWEAK, IL-12p70 and ASCA-A; TWEAK, IL-12p70 and ASCA-G; TWEAK, IL-12p70 and
CBir1; TWEAK, IL-12p70 and Fla2; TWEAK, IL-12p70 and FlaX; TWEAK, IL-12p70 and

OmpC; TWEAK, IL-12p70 and ADA; TWEAK, IL-1 β and GMCSF; TWEAK, IL-1 β and IFN γ ; TWEAK, IL-1 β and IL-6; TWEAK, IL-1 β and TNF α ; TWEAK, IL-1 β and ASCA-A; TWEAK, IL-1 β and ASCA-G; TWEAK, IL-1 β and CBir1; TWEAK, IL-1 β and Fla2; TWEAK, IL-1 β and FlaX; TWEAK, IL-1 β and OmpC; TWEAK, IL-1 β and ADA; TWEAK, GMCSF and IFN γ ;
5 TWEAK, GMCSF and IL-6; TWEAK, GMCSF and TNF α ; TWEAK, GMCSF and ASCA-A; TWEAK, GMCSF and ASCA-G; TWEAK, GMCSF and CBir1; TWEAK, GMCSF and Fla2; TWEAK, GMCSF and FlaX; TWEAK, GMCSF and OmpC; TWEAK, GMCSF and ADA; TWEAK, IFN γ and IL-6; TWEAK, IFN γ and TNF α ; TWEAK, IFN γ and ASCA-A; TWEAK, IFN γ and ASCA-G; TWEAK, IFN γ and CBir1; TWEAK, IFN γ and Fla2; TWEAK, IFN γ and
10 FlaX; TWEAK, IFN γ and OmpC; TWEAK, IFN γ and ADA; TWEAK, IL-6 and TNF α ; TWEAK, IL-6 and ASCA-A; TWEAK, IL-6 and ASCA-G; TWEAK, IL-6 and CBir1; TWEAK, IL-6 and Fla2; TWEAK, IL-6 and FlaX; TWEAK, IL-6 and OmpC; TWEAK, IL-6 and ADA; TWEAK, TWEAK, TNF α and ASCA-A; TWEAK, TNF α and ASCA-G; TWEAK, TNF α and CBir1; TWEAK, TNF α and Fla2; TWEAK, TNF α and FlaX; TWEAK, TNF α and OmpC;
15 TWEAK, TNF α and ADA; TWEAK, ASCA-A and ASCA-G; TWEAK, ASCA-A and CBir1; TWEAK, ASCA-A and Fla2; TWEAK, ASCA-A and FlaX; TWEAK, ASCA-A and OmpC; TWEAK, ASCA-A and ADA; TWEAK, ASCA-G and CBir1; TWEAK, ASCA-G and Fla2; TWEAK, ASCA-G and FlaX; TWEAK, ASCA-G and OmpC; TWEAK, ASCA-G and ADA; TWEAK, CBir1 and Fla2; TWEAK, CBir1 and FlaX; TWEAK, CBir1 and OmpC; TWEAK,
20 CBir1 and ADA; TWEAK, Fla2 and FlaX; TWEAK, Fla2 and OmpC; TWEAK, Fla2 and ADA; TWEAK, FlaX and OmpC; TWEAK, FlaX and ADA; TWEAK, OmpC and ADA; CRP, TWEAK and ICAM; CRP, TWEAK and SAA; CRP, TWEAK and VCAM; CRP, TWEAK and IL-2; CRP, TWEAK and IL-8; CRP, TWEAK and IL-12p70; CRP, TWEAK and IL-1 β ; CRP, TWEAK and GMCSF; CRP, TWEAK and IFN γ ; CRP, TWEAK and IL-6; CRP, TWEAK and
25 TNF α ; CRP, TWEAK and ASCA-A; CRP, TWEAK and ASCA-G; CRP, TWEAK and CBir1; CRP, TWEAK and Fla2; CRP, TWEAK and FlaX; CRP, TWEAK and OmpC; CRP, TWEAK and ADA; CRP, ICAM and SAA; CRP, ICAM and VCAM; CRP, ICAM and IL-2; CRP, ICAM and IL-8; CRP, ICAM and IL-12p70; CRP, ICAM and IL-1 β ; CRP, ICAM and GMCSF; CRP, ICAM and IFN γ ; CRP, ICAM and IL-6; CRP, ICAM and TNF α ; CRP, ICAM and ASCA-A;
30 CRP, ICAM and ASCA-G; CRP, ICAM and CBir1; CRP, ICAM and Fla2; CRP, ICAM and FlaX; CRP, ICAM and OmpC; CRP, ICAM and ADA; CRP, SAA and VCAM; CRP, SAA and

IL-2; CRP, SAA and IL-8; CRP, SAA and IL-12p70; CRP, SAA and IL-1 β ; CRP, SAA and
 GMCSF; CRP, SAA and IFN γ ; CRP, SAA and IL-6; CRP, SAA and TNF α ; CRP, SAA and
 ASCA-A; CRP, SAA and ASCA-G; CRP, SAA and CBir1; CRP, SAA and Fla2; CRP, SAA and
 FlaX; CRP, SAA and OmpC; CRP, SAA and ADA; CRP, VCAM and IL-2; CRP, VCAM and
 5 IL-8; CRP, VCAM and IL-12p70; CRP, VCAM and IL-1 β ; CRP, VCAM and GMCSF; CRP,
 VCAM and IFN γ ; CRP, VCAM and IL-6; CRP, VCAM and TNF α ; CRP, VCAM and ASCA-A;
 CRP, VCAM and ASCA-G; CRP, VCAM and CBir1; CRP, VCAM and Fla2; CRP, VCAM and
 FlaX; CRP, VCAM and OmpC; CRP, VCAM and ADA; CRP, IL-2 and IL-8; CRP, IL-2 and IL-
 12p70; CRP, IL-2 and IL-1 β ; CRP, IL-2 and GMCSF; CRP, IL-2 and IFN γ ; CRP, IL-2 and IL-6;
 10 CRP, IL-2 and TNF α ; CRP, IL-2 and ASCA-A; CRP, IL-2 and ASCA-G; CRP, IL-2 and CBir1;
 CRP, IL-2 and Fla2; CRP, IL-2 and FlaX; CRP, IL-2 and OmpC; CRP, IL-2 and ADA; CRP, IL-
 8 and IL-12p70; CRP, IL-8 and IL-1 β ; CRP, IL-8 and GMCSF; CRP, IL-8 and IFN γ ; CRP, IL-8
 and IL-6; CRP, IL-8 and TNF α ; CRP, IL-8 and ASCA-A; CRP, IL-8 and ASCA-G; CRP, IL-8
 and CBir1; CRP, IL-8 and Fla2; CRP, IL-8 and FlaX; CRP, IL-8 and OmpC; CRP, IL-8 and
 15 ADA; CRP, IL-12p70 and IL-1 β ; CRP, IL-12p70 and GMCSF; CRP, IL-12p70 and IFN γ ; CRP,
 IL-12p70 and IL-6; CRP, IL-12p70 and TNF α ; CRP, IL-12p70 and ASCA-A; CRP, IL-12p70
 and ASCA-G; CRP, IL-12p70 and CBir1; CRP, IL-12p70 and Fla2; CRP, IL-12p70 and FlaX;
 CRP, IL-12p70 and OmpC; CRP, IL-12p70 and ADA; CRP, IL-1 β and GMCSF; CRP, IL-1 β
 and IFN γ ; CRP, IL-1 β and IL-6; CRP, IL-1 β and TNF α ; CRP, IL-1 β and ASCA-A; CRP, IL-1 β
 20 and ASCA-G; CRP, IL-1 β and CBir1; CRP, IL-1 β and Fla2; CRP, IL-1 β and FlaX; CRP, IL-1 β
 and OmpC; CRP, IL-1 β and ADA; CRP, GMCSF and IFN γ ; CRP, GMCSF and IL-6; CRP,
 GMCSF and TNF α ; CRP, GMCSF and ASCA-A; CRP, GMCSF and ASCA-G; CRP, GMCSF
 and CBir1; CRP, GMCSF and Fla2; CRP, GMCSF and FlaX; CRP, GMCSF and OmpC; CRP,
 GMCSF and ADA; CRP, IFN γ and IL-6; CRP, IFN γ and TNF α ; CRP, IFN γ and ASCA-A; CRP,
 25 IFN γ and ASCA-G; CRP, IFN γ and CBir1; CRP, IFN γ and Fla2; CRP, IFN γ and FlaX; CRP,
 IFN γ and OmpC; CRP, IFN γ and ADA; CRP, IL-6 and TNF α ; CRP, IL-6 and ASCA-A; CRP,
 IL-6 and ASCA-G; CRP, IL-6 and CBir1; CRP, IL-6 and Fla2; CRP, IL-6 and FlaX; CRP, IL-6
 and OmpC; CRP, IL-6 and ADA; CRP, TNF α and ASCA-A; CRP, TNF α and ASCA-G; CRP,
 TNF α and CBir1; CRP, TNF α and Fla2; CRP, TNF α and FlaX; CRP, TNF α and OmpC; CRP,
 30 TNF α and ADA; CRP, ASCA-A and ASCA-G; CRP, ASCA-A and CBir1; CRP, ASCA-A and
 Fla2; CRP, ASCA-A and FlaX; CRP, ASCA-A and OmpC; CRP, ASCA-A and ADA; CRP,

ASCA-G and CBir1; CRP, ASCA-G and Fla2; CRP, ASCA-G and FlaX; CRP, ASCA-G and
 OmpC; CRP, ASCA-G and ADA; CRP, CBir1 and Fla2; CRP, CBir1 and FlaX; CRP, CBir1 and
 OmpC; CRP, CBir1 and ADA; CRP, Fla2 and FlaX; CRP, Fla2 and OmpC; CRP, Fla2 and
 ADA; CRP, FlaX and OmpC; CRP, FlaX and ADA; CRP, OmpC and ADA; ICAM, TWEAK
 5 and CRP; ICAM, TWEAK and SAA; ICAM, TWEAK and VCAM; ICAM, TWEAK and IL-2;
 ICAM, TWEAK and IL-8; ICAM, TWEAK and IL-12p70; ICAM, TWEAK and IL-1 β ; ICAM,
 TWEAK and GMCSF; ICAM, TWEAK and IFN γ ; ICAM, TWEAK and IL-6; ICAM, TWEAK
 and TNF α ; ICAM, TWEAK and ASCA-A; ICAM, TWEAK and ASCA-G; ICAM, TWEAK and
 CBir1; ICAM, TWEAK and Fla2; ICAM, TWEAK and FlaX; ICAM, TWEAK and OmpC;
 10 ICAM, TWEAK and ADA; ICAM, CRP and SAA; ICAM, CRP and VCAM; ICAM, CRP and
 IL-2; ICAM, CRP and IL-8; ICAM, CRP and IL-12p70; ICAM, CRP and IL-1 β ; ICAM, CRP
 and GMCSF; ICAM, CRP and IFN γ ; ICAM, CRP and IL-6; ICAM, CRP and TNF α ; ICAM,
 CRP and ASCA-A; ICAM, CRP and ASCA-G; ICAM, CRP and CBir1; ICAM, CRP and Fla2;
 ICAM, CRP and FlaX; ICAM, CRP and OmpC; ICAM, CRP and ADA; ICAM, SAA and
 15 VCAM; ICAM, SAA and IL-2; ICAM, SAA and IL-8; ICAM, SAA and IL-12p70; ICAM, SAA
 and IL-1 β ; ICAM, SAA and GMCSF; ICAM, SAA and IFN γ ; ICAM, SAA and IL-6; ICAM,
 SAA and TNF α ; ICAM, SAA and ASCA-A; ICAM, SAA and ASCA-G; ICAM, SAA and
 CBir1; ICAM, SAA and Fla2; ICAM, SAA and FlaX; ICAM, SAA and OmpC; ICAM, SAA and
 ADA; ICAM, VCAM and IL-2; ICAM, VCAM and IL-8; ICAM, VCAM and IL-12p70; ICAM,
 20 VCAM and IL-1 β ; ICAM, VCAM and GMCSF; ICAM, VCAM and IFN γ ; ICAM, VCAM and
 IL-6; ICAM, VCAM and TNF α ; ICAM, VCAM and ASCA-A; ICAM, VCAM and ASCA-G;
 ICAM, VCAM and CBir1; ICAM, VCAM and Fla2; ICAM, VCAM and FlaX; ICAM, VCAM
 and OmpC; ICAM, VCAM and ADA; ICAM, IL-2 and IL-8; ICAM, IL-2 and IL-12p70; ICAM,
 IL-2 and IL-1 β ; ICAM, IL-2 and GMCSF; ICAM, IL-2 and IFN γ ; ICAM, IL-2 and IL-6; ICAM,
 25 IL-2 and TNF α ; ICAM, IL-2 and ASCA-A; ICAM, IL-2 and ASCA-G; ICAM, IL-2 and CBir1;
 ICAM, IL-2 and Fla2; ICAM, IL-2 and FlaX; ICAM, IL-2 and OmpC; ICAM, IL-2 and ADA;
 ICAM, IL-8 and IL-12p70; ICAM, IL-8 and IL-1 β ; ICAM, IL-8 and GMCSF; ICAM, IL-8 and
 IFN γ ; ICAM, IL-8 and IL-6; ICAM, IL-8 and TNF α ; ICAM, IL-8 and ASCA-A; ICAM, IL-8
 and ASCA-G; ICAM, IL-8 and CBir1; ICAM, IL-8 and Fla2; ICAM, IL-8 and FlaX; ICAM, IL-
 30 8 and OmpC; ICAM, IL-8 and ADA; ICAM, IL-12p70 and IL-1 β ; ICAM, IL-12p70 and
 GMCSF; ICAM, IL-12p70 and IFN γ ; ICAM, IL-12p70 and IL-6; ICAM, IL-12p70 and TNF α ;

ICAM, IL-12p70 and ASCA-A; ICAM, IL-12p70 and ASCA-G; ICAM, IL-12p70 and CBir1;
 ICAM, IL-12p70 and Fla2; ICAM, IL-12p70 and FlaX; ICAM, IL-12p70 and OmpC; ICAM, IL-
 12p70 and ADA; ICAM, IL-1 β and GMCSF; ICAM, IL-1 β and IFN γ ; ICAM, IL-1 β and IL-6;
 ICAM, IL-1 β and TNF α ; ICAM, IL-1 β and ASCA-A; ICAM, IL-1 β and ASCA-G; ICAM, IL-1 β
 5 and CBir1; ICAM, IL-1 β and Fla2; ICAM, IL-1 β and FlaX; ICAM, IL-1 β and OmpC; ICAM,
 IL-1 β and ADA; ICAM, GMCSF and IFN γ ; ICAM, GMCSF and IL-6; ICAM, GMCSF and
 TNF α ; ICAM, GMCSF and ASCA-A; ICAM, GMCSF and ASCA-G; ICAM, GMCSF and
 CBir1; ICAM, GMCSF and Fla2; ICAM, GMCSF and FlaX; ICAM, GMCSF and OmpC;
 ICAM, GMCSF and ADA; ICAM, IFN γ and IL-6; ICAM, IFN γ and TNF α ; ICAM, IFN γ and
 10 ASCA-A; ICAM, IFN γ and ASCA-G; ICAM, IFN γ and CBir1; ICAM, IFN γ and Fla2; ICAM,
 IFN γ and FlaX; ICAM, IFN γ and OmpC; ICAM, IFN γ and ADA; ICAM, IL-6 and TNF α ;
 ICAM, IL-6 and ASCA-A; ICAM, IL-6 and ASCA-G; ICAM, IL-6 and CBir1; ICAM, IL-6 and
 Fla2; ICAM, IL-6 and FlaX; ICAM, IL-6 and OmpC; ICAM, IL-6 and ADA; ICAM, TNF α and
 ASCA-A; ICAM, TNF α and ASCA-G; ICAM, TNF α and CBir1; ICAM, TNF α and Fla2;
 15 ICAM, TNF α and FlaX; ICAM, TNF α and OmpC; ICAM, TNF α and ADA; ICAM, ASCA-A
 and ASCA-G; ICAM, ASCA-A and CBir1; ICAM, ASCA-A and Fla2; ICAM, ASCA-A and
 FlaX; ICAM, ASCA-A and OmpC; ICAM, ASCA-A and ADA; ICAM, ASCA-G and CBir1;
 ICAM, ASCA-G and Fla2; ICAM, ASCA-G and FlaX; ICAM, ASCA-G and OmpC; ICAM,
 ASCA-G and ADA; ICAM, CBir1 and Fla2; ICAM, CBir1 and FlaX; ICAM, CBir1 and OmpC;
 20 ICAM, CBir1 and ADA; ICAM, Fla2 and FlaX; ICAM, Fla2 and OmpC; ICAM, Fla2 and ADA;
 ICAM, FlaX and OmpC; ICAM, FlaX and ADA; ICAM, OmpC and ADA; SAA, TWEAK and
 CRP; SAA, TWEAK and ICAM; SAA, TWEAK and SAA; SAA, TWEAK and VCAM; SAA,
 TWEAK and IL-2; SAA, TWEAK and IL-8; SAA, TWEAK and IL-12p70; SAA, TWEAK and
 IL-1 β ; SAA, TWEAK and GMCSF; SAA, TWEAK and IFN γ ; SAA, TWEAK and IL-6; SAA,
 25 TWEAK and TNF α ; SAA, TWEAK and ASCA-A; SAA, TWEAK and ASCA-G; SAA,
 TWEAK and CBir1; SAA, TWEAK and Fla2; SAA, TWEAK and FlaX; SAA, TWEAK and
 OmpC; SAA, TWEAK and ADA; SAA, CRP and ICAM; SAA, CRP and VCAM; SAA, CRP
 and IL-2; SAA, CRP and IL-8; SAA, CRP and IL-12p70; SAA, CRP and IL-1 β ; SAA, CRP and
 GMCSF; SAA, CRP and IFN γ ; SAA, CRP and IL-6; SAA, CRP and TNF α ; SAA, CRP and
 30 ASCA-A; SAA, CRP and ASCA-G; SAA, CRP and CBir1; SAA, CRP and Fla2; SAA, CRP and
 FlaX; SAA, CRP and OmpC; SAA, CRP and ADA; SAA, ICAM and VCAM; SAA, ICAM and

IL-2; SAA, ICAM and IL-8; SAA, ICAM and IL-12p70; SAA, ICAM and IL-1 β ; SAA, ICAM
 and GMCSF; SAA, ICAM and IFN γ ; SAA, ICAM and IL-6; SAA, ICAM and TNF α ; SAA,
 ICAM and ASCA-A; SAA, ICAM and ASCA-G; SAA, ICAM and CBir1; SAA, ICAM and
 Fla2; SAA, ICAM and FlaX; SAA, ICAM and OmpC; SAA, ICAM and ADA; SAA, VCAM
 5 and IL-2; SAA, VCAM and IL-8; SAA, VCAM and IL-12p70; SAA, VCAM and IL-1 β ; SAA,
 VCAM and GMCSF; SAA, VCAM and IFN γ ; SAA, VCAM and IL-6; SAA, VCAM and TNF α ;
 SAA, VCAM and ASCA-A; SAA, VCAM and ASCA-G; SAA, VCAM and CBir1; SAA,
 VCAM and Fla2; SAA, VCAM and FlaX; SAA, VCAM and OmpC; SAA, VCAM and ADA;
 SAA, IL-2 and IL-8; SAA, IL-2 and IL-12p70; SAA, IL-2 and IL-1 β ; SAA, IL-2 and GMCSF;
 10 SAA, IL-2 and IFN γ ; SAA, IL-2 and IL-6; SAA, IL-2 and TNF α ; SAA, IL-2 and ASCA-A;
 SAA, IL-2 and ASCA-G; SAA, IL-2 and CBir1; SAA, IL-2 and Fla2; SAA, IL-2 and FlaX;
 SAA, IL-2 and OmpC; SAA, IL-2 and ADA; SAA, IL-8 and IL-12p70; SAA, IL-8 and IL-1 β ;
 SAA, IL-8 and GMCSF; SAA, IL-8 and IFN γ ; SAA, IL-8 and IL-6; SAA, IL-8 and TNF α ; SAA,
 IL-8 and ASCA-A; SAA, IL-8 and ASCA-G; SAA, IL-8 and CBir1; SAA, IL-8 and Fla2; SAA,
 15 IL-8 and FlaX; SAA, IL-8 and OmpC; SAA, IL-8 and ADA; SAA, IL-12p70 and IL-1 β ; SAA,
 IL-12p70 and GMCSF; SAA, IL-12p70 and IFN γ ; SAA, IL-12p70 and IL-6; SAA, IL-12p70 and
 TNF α ; SAA, IL-12p70 and ASCA-A; SAA, IL-12p70 and ASCA-G; SAA, IL-12p70 and CBir1;
 SAA, IL-12p70 and Fla2; SAA, IL-12p70 and FlaX; SAA, IL-12p70 and OmpC; SAA, IL-12p70
 and ADA; SAA, IL-1 β and GMCSF; SAA, IL-1 β and IFN γ ; SAA, IL-1 β and IL-6; SAA, IL-1 β
 20 and TNF α ; SAA, IL-1 β and ASCA-A; SAA, IL-1 β and ASCA-G; SAA, IL-1 β and CBir1; SAA,
 IL-1 β and Fla2; SAA, IL-1 β and FlaX; SAA, IL-1 β and OmpC; SAA, IL-1 β and ADA; SAA,
 GMCSF and IFN γ ; SAA, GMCSF and IL-6; SAA, GMCSF and TNF α ; SAA, GMCSF and
 ASCA-A; SAA, GMCSF and ASCA-G; SAA, GMCSF and CBir1; SAA, GMCSF and Fla2;
 SAA, GMCSF and FlaX; SAA, GMCSF and OmpC; SAA, GMCSF and ADA; SAA, IFN γ and
 25 IL-6; SAA, IFN γ and TNF α ; SAA, IFN γ and ASCA-A; SAA, IFN γ and ASCA-G; SAA, IFN γ
 and CBir1; SAA, IFN γ and Fla2; SAA, IFN γ and FlaX; SAA, IFN γ and OmpC; SAA, IFN γ and
 ADA; SAA, IL-6 and TNF α ; SAA, IL-6 and ASCA-A; SAA, IL-6 and ASCA-G; SAA, IL-6 and
 CBir1; SAA, IL-6 and Fla2; SAA, IL-6 and FlaX; SAA, IL-6 and OmpC; SAA, IL-6 and ADA;
 SAA, TNF α and ASCA-A; SAA, TNF α and ASCA-G; SAA, TNF α and CBir1; SAA, TNF α and
 30 Fla2; SAA, TNF α and FlaX; SAA, TNF α and OmpC; SAA, TNF α and ADA; SAA, ASCA-A
 and ASCA-G; SAA, ASCA-A and CBir1; SAA, ASCA-A and Fla2; SAA, ASCA-A and FlaX;

SAA, ASCA-A and OmpC; SAA, ASCA-A and ADA; SAA, ASCA-G and CBir1; SAA, ASCA-G and Fla2; SAA, ASCA-G and FlaX; SAA, ASCA-G and OmpC; SAA, ASCA-G and ADA; SAA, CBir1 and Fla2; SAA, CBir1 and FlaX; SAA, CBir1 and OmpC; SAA, CBir1 and ADA; SAA, Fla2 and FlaX; SAA, Fla2 and OmpC; SAA, Fla2 and ADA; SAA, FlaX and OmpC; SAA, FlaX and ADA; SAA, OmpC and ADA; VCAM, TWEAK and CRP; VCAM, TWEAK and ICAM; VCAM, TWEAK and SAA; VCAM, TWEAK and IL-2; VCAM, TWEAK and IL-8; VCAM, TWEAK and IL-12p70; VCAM, TWEAK and IL-1 β ; VCAM, TWEAK and GMCSF; VCAM, TWEAK and IFN γ ; VCAM, TWEAK and IL-6; VCAM, TWEAK and TNF α ; VCAM, TWEAK and ASCA-A; VCAM, TWEAK and ASCA-G; VCAM, TWEAK and CBir1; VCAM, TWEAK and Fla2; VCAM, TWEAK and FlaX; VCAM, TWEAK and OmpC; VCAM, TWEAK and ADA; VCAM, CRP and ICAM; VCAM, CRP and SAA; VCAM, CRP and IL-2; VCAM, CRP and IL-8; VCAM, CRP and IL-12p70; VCAM, CRP and IL-1 β ; VCAM, CRP and GMCSF; VCAM, CRP and IFN γ ; VCAM, CRP and IL-6; VCAM, CRP and TNF α ; VCAM, CRP and ASCA-A; VCAM, CRP and ASCA-G; VCAM, CRP and CBir1; VCAM, CRP and Fla2; VCAM, CRP and FlaX; VCAM, CRP and OmpC; VCAM, CRP and ADA; VCAM, ICAM and SAA; VCAM, ICAM and IL-2; VCAM, ICAM and IL-8; VCAM, ICAM and IL-12p70; VCAM, ICAM and IL-1 β ; VCAM, ICAM and GMCSF; VCAM, ICAM and IFN γ ; VCAM, ICAM and IL-6; VCAM, ICAM and TNF α ; VCAM, ICAM and ASCA-A; VCAM, ICAM and ASCA-G; VCAM, ICAM and CBir1; VCAM, ICAM and Fla2; VCAM, ICAM and FlaX; VCAM, ICAM and OmpC; VCAM, ICAM and ADA; VCAM, SAA and IL-2; VCAM, SAA and IL-8; VCAM, SAA and IL-12p70; VCAM, SAA and IL-1 β ; VCAM, SAA and GMCSF; VCAM, SAA and IFN γ ; VCAM, SAA and IL-6; VCAM, SAA and TNF α ; VCAM, SAA and ASCA-A; VCAM, SAA and ASCA-G; VCAM, SAA and CBir1; VCAM, SAA and Fla2; VCAM, SAA and FlaX; VCAM, SAA and OmpC; VCAM, SAA and ADA; VCAM, IL-2 and IL-8; VCAM, IL-2 and IL-12p70; VCAM, IL-2 and IL-1 β ; VCAM, IL-2 and GMCSF; VCAM, IL-2 and IFN γ ; VCAM, IL-2 and IL-6; VCAM, IL-2 and TNF α ; VCAM, IL-2 and ASCA-A; VCAM, IL-2 and ASCA-G; VCAM, IL-2 and CBir1; VCAM, IL-2 and Fla2; VCAM, IL-2 and FlaX; VCAM, IL-2 and OmpC; VCAM, IL-2 and ADA; VCAM, IL-8 and IL-12p70; VCAM, IL-8 and IL-1 β ; VCAM, IL-8 and GMCSF; VCAM, IL-8 and IFN γ ; VCAM, IL-8 and IL-6; VCAM, IL-8 and TNF α ; VCAM, IL-8 and ASCA-A; VCAM, IL-8 and ASCA-G; VCAM, IL-8 and CBir1; VCAM, IL-8 and Fla2; VCAM, IL-8 and FlaX; VCAM, IL-8 and OmpC; VCAM, IL-8 and ADA; VCAM, IL-

12p70 and IL-1 β ; VCAM, IL-12p70 and GMCSF; VCAM, IL-12p70 and IFN γ ; VCAM, IL-
 12p70 and IL-6; VCAM, IL-12p70 and TNF α ; VCAM, IL-12p70 and ASCA-A; VCAM, IL-
 12p70 and ASCA-G; VCAM, IL-12p70 and CBir1; VCAM, IL-12p70 and Fla2; VCAM, IL-
 12p70 and FlaX; VCAM, IL-12p70 and OmpC; VCAM, IL-12p70 and ADA; VCAM, IL-1 β and
 5 GMCSF; VCAM, IL-1 β and IFN γ ; VCAM, IL-1 β and IL-6; VCAM, IL-1 β and TNF α ; VCAM,
 IL-1 β and ASCA-A; VCAM, IL-1 β and ASCA-G; VCAM, IL-1 β and CBir1; VCAM, IL-1 β and
 Fla2; VCAM, IL-1 β and FlaX; VCAM, IL-1 β and OmpC; VCAM, IL-1 β and ADA; VCAM,
 GMCSF and IFN γ ; VCAM, GMCSF and IL-6; VCAM, GMCSF and TNF α ; VCAM, GMCSF
 and ASCA-A; VCAM, GMCSF and ASCA-G; VCAM, GMCSF and CBir1; VCAM, GMCSF
 10 and Fla2; VCAM, GMCSF and FlaX; VCAM, GMCSF and OmpC; VCAM, GMCSF and ADA;
 VCAM, IFN γ and IL-6; VCAM, IFN γ and TNF α ; VCAM, IFN γ and ASCA-A; VCAM, IFN γ
 and ASCA-G; VCAM, IFN γ and CBir1; VCAM, IFN γ and Fla2; VCAM, IFN γ and FlaX;
 VCAM, IFN γ and OmpC; VCAM, IFN γ and ADA; VCAM, IL-6 and TNF α ; VCAM, IL-6 and
 ASCA-A; VCAM, IL-6 and ASCA-G; VCAM, IL-6 and CBir1; VCAM, IL-6 and Fla2; VCAM,
 15 IL-6 and FlaX; VCAM, IL-6 and OmpC; VCAM, IL-6 and ADA; VCAM, TNF α and ASCA-A;
 VCAM, TNF α and ASCA-G; VCAM, TNF α and CBir1; VCAM, TNF α and Fla2; VCAM,
 TNF α and FlaX; VCAM, TNF α and OmpC; VCAM, TNF α and ADA; VCAM, ASCA-A and
 ASCA-G; VCAM, ASCA-A and CBir1; VCAM, ASCA-A and Fla2; VCAM, ASCA-A and
 FlaX; VCAM, ASCA-A and OmpC; VCAM, ASCA-A and ADA; VCAM, ASCA-G and CBir1;
 20 VCAM, ASCA-G and Fla2; VCAM, ASCA-G and FlaX; VCAM, ASCA-G and OmpC; VCAM,
 ASCA-G and ADA; VCAM, CBir1 and Fla2; VCAM, CBir1 and FlaX; VCAM, CBir1 and
 OmpC; VCAM, CBir1 and ADA; VCAM, Fla2 and FlaX; VCAM, Fla2 and OmpC; VCAM,
 Fla2 and ADA; VCAM, FlaX and OmpC; VCAM, FlaX and ADA; VCAM, OmpC and ADA;
 IL-2, TWEAK and CRP; IL-2, TWEAK and ICAM; IL-2, TWEAK and SAA; IL-2, TWEAK
 25 and VCAM; IL-2, TWEAK and IL-8; IL-2, TWEAK and IL-12p70; IL-2, TWEAK and IL-1 β ;
 IL-2, TWEAK and GMCSF; IL-2, TWEAK and IFN γ ; IL-2, TWEAK and IL-6; IL-2, TWEAK
 and TNF α ; IL-2, TWEAK and ASCA-A; IL-2, TWEAK and ASCA-G; IL-2, TWEAK and
 CBir1; IL-2, TWEAK and Fla2; IL-2, TWEAK and FlaX; IL-2, TWEAK and OmpC; IL-2,
 TWEAK and ADA; IL-2, CRP and ICAM; IL-2, CRP and SAA; IL-2, CRP and VCAM; IL-2,
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 CRP and IFN γ ; IL-2, CRP and IL-6; IL-2, CRP and TNF α ; IL-2, CRP and ASCA-A; IL-2, CRP

and ASCA-G; IL-2, CRP and CBir1; IL-2, CRP and Fla2; IL-2, CRP and FlaX; IL-2, CRP and OmpC; IL-2, CRP and ADA; IL-2, ICAM and SAA; IL-2, ICAM and VCAM; IL-2, ICAM and IL-8; IL-2, ICAM and IL-12p70; IL-2, ICAM and IL-1 β ; IL-2, ICAM and GMCSF; IL-2, ICAM and IFN γ ; IL-2, ICAM and IL-6; IL-2, ICAM and TNF α ; IL-2, ICAM and ASCA-A; IL-2, ICAM and ASCA-G; IL-2, ICAM and CBir1; IL-2, ICAM and Fla2; IL-2, ICAM and FlaX; IL-2, ICAM and OmpC; IL-2, ICAM and ADA; IL-2, SAA and VCAM; IL-2, SAA and IL-8; IL-2, SAA and IL-12p70; IL-2, SAA and IL-1 β ; IL-2, SAA and GMCSF; IL-2, SAA and IFN γ ; IL-2, SAA and IL-6; IL-2, SAA and TNF α ; IL-2, SAA and ASCA-A; IL-2, SAA and ASCA-G; IL-2, SAA and CBir1; IL-2, SAA and Fla2; IL-2, SAA and FlaX; IL-2, SAA and OmpC; IL-2, SAA and ADA; IL-2, VCAM and IL-8; IL-2, VCAM and IL-12p70; IL-2, VCAM and IL-1 β ; IL-2, VCAM and GMCSF; IL-2, VCAM and IFN γ ; IL-2, VCAM and IL-6; IL-2, VCAM and TNF α ; IL-2, VCAM and ASCA-A; IL-2, VCAM and ASCA-G; IL-2, VCAM and CBir1; IL-2, VCAM and Fla2; IL-2, VCAM and FlaX; IL-2, VCAM and OmpC; IL-2, VCAM and ADA; IL-2, IL-8 and IL-12p70; IL-2, IL-8 and IL-1 β ; IL-2, IL-8 and GMCSF; IL-2, IL-8 and IFN γ ; IL-2, IL-8 and IL-6; IL-2, IL-8 and TNF α ; IL-2, IL-8 and ASCA-A; IL-2, IL-8 and ASCA-G; IL-2, IL-8 and CBir1; IL-2, IL-8 and Fla2; IL-2, IL-8 and FlaX; IL-2, IL-8 and OmpC; IL-2, IL-8 and ADA; IL-2, IL-12p70 and IL-1 β ; IL-2, IL-12p70 and GMCSF; IL-2, IL-12p70 and IFN γ ; IL-2, IL-12p70 and IL-6; IL-2, IL-12p70 and TNF α ; IL-2, IL-12p70 and ASCA-A; IL-2, IL-12p70 and ASCA-G; IL-2, IL-12p70 and CBir1; IL-2, IL-12p70 and Fla2; IL-2, IL-12p70 and FlaX; IL-2, IL-12p70 and OmpC; IL-2, IL-12p70 and ADA; IL-2, IL-1 β and GMCSF; IL-2, IL-1 β and IFN γ ; IL-2, IL-1 β and IL-6; IL-2, IL-1 β and TNF α ; IL-2, IL-1 β and ASCA-A; IL-2, IL-1 β and ASCA-G; IL-2, IL-1 β and CBir1; IL-2, IL-1 β and Fla2; IL-2, IL-1 β and FlaX; IL-2, IL-1 β and OmpC; IL-2, IL-1 β and ADA; IL-2, GMCSF and IFN γ ; IL-2, GMCSF and IL-6; IL-2, GMCSF and TNF α ; IL-2, GMCSF and ASCA-A; IL-2, GMCSF and ASCA-G; IL-2, GMCSF and CBir1; IL-2, GMCSF and Fla2; IL-2, GMCSF and FlaX; IL-2, GMCSF and OmpC; IL-2, GMCSF and ADA; IL-2, IFN γ and IL-6; IL-2, IFN γ and TNF α ; IL-2, IFN γ and ASCA-A; IL-2, IFN γ and ASCA-G; IL-2, IFN γ and CBir1; IL-2, IFN γ and Fla2; IL-2, IFN γ and FlaX; IL-2, IFN γ and OmpC; IL-2, IFN γ and ADA; IL-2, IL-6 and TNF α ; IL-2, IL-6 and ASCA-A; IL-2, IL-6 and ASCA-G; IL-2, IL-6 and CBir1; IL-2, IL-6 and Fla2; IL-2, IL-6 and FlaX; IL-2, IL-6 and OmpC; IL-2, IL-6 and ADA; IL-2, TNF α and ASCA-A; IL-2, TNF α and ASCA-G; IL-2, TNF α and CBir1; IL-2, TNF α and Fla2; IL-2, TNF α and FlaX; IL-2, TNF α and OmpC; IL-2, TNF α and

ADA; IL-2, ASCA-A and ASCA-G; IL-2, ASCA-A and CBir1; IL-2, ASCA-A and Fla2; IL-2,
 ASCA-A and FlaX; IL-2, ASCA-A and OmpC; IL-2, ASCA-A and ADA; IL-2, ASCA-G and
 CBir1; IL-2, ASCA-G and Fla2; IL-2, ASCA-G and FlaX; IL-2, ASCA-G and OmpC; IL-2,
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 and OmpC; IL-2, FlaX and ADA; IL-2, OmpC and ADA; IL-8, TWEAK and CRP; IL-8,
 TWEAK and ICAM; IL-8, TWEAK and SAA; IL-8, TWEAK and VCAM; IL-8, TWEAK and
 IL-2; IL-8, TWEAK and IL-12p70; IL-8, TWEAK and IL-1 β ; IL-8, TWEAK and GMCSF; IL-8,
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 15 IL-8, CRP and Fla2; IL-8, CRP and FlaX; IL-8, CRP and OmpC; IL-8, CRP and ADA; IL-8,
 ICAM and SAA; IL-8, ICAM and VCAM; IL-8, ICAM and IL-2; IL-8, ICAM and IL-12p70; IL-
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 VCAM and ASCA-G; IL-8, VCAM and CBir1; IL-8, VCAM and Fla2; IL-8, VCAM and FlaX;
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 IL-8, IL-2 and GMCSF; IL-8, IL-2 and IFN γ ; IL-8, IL-2 and IL-6; IL-8, IL-2 and TNF α ; IL-8,
 IL-2 and ASCA-A; IL-8, IL-2 and ASCA-G; IL-8, IL-2 and CBir1; IL-8, IL-2 and Fla2; IL-8,
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 and ADA; IL-8, IL-1 β and GMCSF; IL-8, IL-1 β and IFN γ ; IL-8, IL-1 β and IL-6; IL-8, IL-1 β and
 TNF α ; IL-8, IL-1 β and ASCA-A; IL-8, IL-1 β and ASCA-G; IL-8, IL-1 β and CBir1; IL-8, IL-1 β
 5 and Fla2; IL-8, IL-1 β and FlaX; IL-8, IL-1 β and OmpC; IL-8, IL-1 β and ADA; IL-8, GMCSF
 and IFN γ ; IL-8, GMCSF and IL-6; IL-8, GMCSF and TNF α ; IL-8, GMCSF and ASCA-A; IL-8,
 GMCSF and ASCA-G; IL-8, GMCSF and CBir1; IL-8, GMCSF and Fla2; IL-8, GMCSF and
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 and SAA; IL-12p70, TWEAK and VCAM; IL-12p70, TWEAK and IL-2; IL-12p70, TWEAK
 and IL-8; IL-12p70, TWEAK and IL-1 β ; IL-12p70, TWEAK and GMCSF; IL-12p70, TWEAK
 and IFN γ ; IL-12p70, TWEAK and IL-6; IL-12p70, TWEAK and TNF α ; IL-12p70, TWEAK and
 ASCA-A; IL-12p70, TWEAK and ASCA-G; IL-12p70, TWEAK and CBir1; IL-12p70,
 25 TWEAK and Fla2; IL-12p70, TWEAK and FlaX; IL-12p70, TWEAK and OmpC; IL-12p70,
 TWEAK and ADA; IL-12p70, CRP and ICAM; IL-12p70, CRP and SAA; IL-12p70, CRP and
 VCAM; IL-12p70, CRP and IL-2; IL-12p70, CRP and IL-8; IL-12p70, CRP and IL-1 β ; IL-
 12p70, CRP and GMCSF; IL-12p70, CRP and IFN γ ; IL-12p70, CRP and IL-6; IL-12p70, CRP
 and TNF α ; IL-12p70, CRP and ASCA-A; IL-12p70, CRP and ASCA-G; IL-12p70, CRP and
 30 CBir1; IL-12p70, CRP and Fla2; IL-12p70, CRP and FlaX; IL-12p70, CRP and OmpC; IL-
 12p70, CRP and ADA; IL-12p70, ICAM and SAA; IL-12p70, ICAM and VCAM; IL-12p70,

ICAM and IL-2; IL-12p70, ICAM and IL-8; IL-12p70, ICAM and IL-1 β ; IL-12p70, ICAM and
 GMCSF; IL-12p70, ICAM and IFN γ ; IL-12p70, ICAM and IL-6; IL-12p70, ICAM and TNF α ;
 IL-12p70, ICAM and ASCA-A; IL-12p70, ICAM and ASCA-G; IL-12p70, ICAM and CBir1;
 IL-12p70, ICAM and Fla2; IL-12p70, ICAM and FlaX; IL-12p70, ICAM and OmpC; IL-12p70,
 5 ICAM and ADA; IL-12p70, SAA and VCAM; IL-12p70, SAA and IL-2; IL-12p70, SAA and
 IL-8; IL-12p70, SAA and IL-1 β ; IL-12p70, SAA and GMCSF; IL-12p70, SAA and IFN γ ; IL-
 12p70, SAA and IL-6; IL-12p70, SAA and TNF α ; IL-12p70, SAA and ASCA-A; IL-12p70,
 SAA and ASCA-G; IL-12p70, SAA and CBir1; IL-12p70, SAA and Fla2; IL-12p70, SAA and
 FlaX; IL-12p70, SAA and OmpC; IL-12p70, SAA and ADA; IL-12p70, VCAM and IL-2; IL-
 10 12p70, VCAM and IL-8; IL-12p70, VCAM and IL-1 β ; IL-12p70, VCAM and GMCSF; IL-
 12p70, VCAM and IFN γ ; IL-12p70, VCAM and IL-6; IL-12p70, VCAM and TNF α ; IL-12p70,
 VCAM and ASCA-A; IL-12p70, VCAM and ASCA-G; IL-12p70, VCAM and CBir1; IL-12p70,
 VCAM and Fla2; IL-12p70, VCAM and FlaX; IL-12p70, VCAM and OmpC; IL-12p70, VCAM
 and ADA; IL-12p70, IL-2 and IL-8; IL-12p70, IL-2 and IL-1 β ; IL-12p70, IL-2 and GMCSF; IL-
 15 12p70, IL-2 and IFN γ ; IL-12p70, IL-2 and IL-6; IL-12p70, IL-2 and TNF α ; IL-12p70, IL-2 and
 ASCA-A; IL-12p70, IL-2 and ASCA-G; IL-12p70, IL-2 and CBir1; IL-12p70, IL-2 and Fla2;
 IL-12p70, IL-2 and FlaX; IL-12p70, IL-2 and OmpC; IL-12p70, IL-2 and ADA; IL-12p70, IL-8
 and IL-1 β ; IL-12p70, IL-8 and GMCSF; IL-12p70, IL-8 and IFN γ ; IL-12p70, IL-8 and IL-6; IL-
 12p70, IL-8 and TNF α ; IL-12p70, IL-8 and ASCA-A; IL-12p70, IL-8 and ASCA-G; IL-12p70,
 20 IL-8 and CBir1; IL-12p70, IL-8 and Fla2; IL-12p70, IL-8 and FlaX; IL-12p70, IL-8 and OmpC;
 IL-12p70, IL-8 and ADA; IL-12p70, IL-1 β and GMCSF; IL-12p70, IL-1 β and IFN γ ; IL-12p70,
 IL-1 β and IL-6; IL-12p70, IL-1 β and TNF α ; IL-12p70, IL-1 β and ASCA-A; IL-12p70, IL-1 β and
 ASCA-G; IL-12p70, IL-1 β and CBir1; IL-12p70, IL-1 β and Fla2; IL-12p70, IL-1 β and FlaX; IL-
 12p70, IL-1 β and OmpC; IL-12p70, IL-1 β and ADA; IL-12p70, GMCSF and IFN γ ; IL-12p70,
 25 GMCSF and IL-6; IL-12p70, GMCSF and TNF α ; IL-12p70, GMCSF and ASCA-A; IL-12p70,
 GMCSF and ASCA-G; IL-12p70, GMCSF and CBir1; IL-12p70, GMCSF and Fla2; IL-12p70,
 GMCSF and FlaX; IL-12p70, GMCSF and OmpC; IL-12p70, GMCSF and ADA; IL-12p70,
 IFN γ and IL-6; IL-12p70, IFN γ and TNF α ; IL-12p70, IFN γ and ASCA-A; IL-12p70, IFN γ and
 ASCA-G; IL-12p70, IFN γ and CBir1; IL-12p70, IFN γ and Fla2; IL-12p70, IFN γ and FlaX; IL-
 30 12p70, IFN γ and OmpC; IL-12p70, IFN γ and ADA; IL-12p70, IL-6 and TNF α ; IL-12p70, IL-6
 and ASCA-A; IL-12p70, IL-6 and ASCA-G; IL-12p70, IL-6 and CBir1; IL-12p70, IL-6 and

Fla2; IL-12p70, IL-6 and FlaX; IL-12p70, IL-6 and OmpC; IL-12p70, IL-6 and ADA; IL-12p70,
 TNF α and ASCA-A; IL-12p70, TNF α and ASCA-G; IL-12p70, TNF α and CBir1; IL-12p70,
 TNF α and Fla2; IL-12p70, TNF α and FlaX; IL-12p70, TNF α and OmpC; IL-12p70, TNF α and
 ADA; IL-12p70, ASCA-A and ASCA-G; IL-12p70, ASCA-A and CBir1; IL-12p70, ASCA-A
 5 and Fla2; IL-12p70, ASCA-A and FlaX; IL-12p70, ASCA-A and OmpC; IL-12p70, ASCA-A
 and ADA; IL-12p70, ASCA-G and CBir1; IL-12p70, ASCA-G and Fla2; IL-12p70, ASCA-G
 and FlaX; IL-12p70, ASCA-G and OmpC; IL-12p70, ASCA-G and ADA; IL-12p70, CBir1 and
 Fla2; IL-12p70, CBir1 and FlaX; IL-12p70, CBir1 and OmpC; IL-12p70, CBir1 and ADA; IL-
 12p70, Fla2 and FlaX; IL-12p70, Fla2 and OmpC; IL-12p70, Fla2 and ADA; IL-12p70, FlaX
 10 and OmpC; IL-12p70, FlaX and ADA; IL-12p70, OmpC and ADA; IL-1 β , TWEAK and CRP;
 IL-1 β , TWEAK and ICAM; IL-1 β , TWEAK and SAA; IL-1 β , TWEAK and VCAM; IL-1 β ,
 TWEAK and IL-2; IL-1 β , TWEAK and IL-8; IL-1 β , TWEAK and IL-12p70; IL-1 β b, TWEAK
 and GMCSF; IL-1 β , TWEAK and IFN γ ; IL-1 β , TWEAK and IL-6; IL-1 β , TWEAK and TNF α ;
 IL-1b, TWEAK and ASCA-A; IL-1 β , TWEAK and ASCA-G; IL-1 β , TWEAK and CBir1; IL-
 15 1 β , TWEAK and Fla2; IL-1 β , TWEAK and FlaX; IL-1 β , TWEAK and OmpC; IL-1 β , TWEAK
 and ADA; IL-1 β , CRP and ICAM; IL-1 β , CRP and SAA; IL-1 β , CRP and VCAM; IL-1 β , CRP
 and IL-2; IL-1 β , CRP and IL-8; IL-1 β , CRP and IL-12p70; IL-1b, CRP and GMCSF; IL-1b,
 CRP and IFN γ ; IL-1 β , CRP and IL-6; IL-1 β , CRP and TNF α ; IL-1 β , CRP and ASCA-A; IL-1b,
 CRP and ASCA-G; IL-1 β , CRP and CBir1; IL-1 β , CRP and Fla2; IL-1 β , CRP and FlaX; IL-1 β ,
 20 CRP and OmpC; IL-1 β , CRP and ADA; IL-1 β , ICAM and SAA; IL-1 β , ICAM and VCAM; IL-
 1 β , ICAM and IL-2; IL-1 β , ICAM and IL-8; IL-1 β , ICAM and IL-12p70; IL-1 β , ICAM and
 GMCSF; IL-1 β , ICAM and IFN γ ; IL-1 β , ICAM and IL-6; IL-1 β , ICAM and TNF α ; IL-1 β ,
 ICAM and ASCA-A; IL-1 β , ICAM and ASCA-G; IL-1 β , ICAM and CBir1; IL-1 β , ICAM and
 Fla2; IL-1 β , ICAM and FlaX; IL-1 β , ICAM and OmpC; IL-1 β , ICAM and ADA; IL-1 β , SAA
 25 and VCAM; IL-1 β , SAA and IL-2; IL-1 β , SAA, and IL-8; IL-1 β , SAA and IL-12p70; IL-1 β ,
 SAA and GMCSF; IL-1 β , SAA and IFN γ ; IL-1 β , SAA and IL-6; IL-1 β , SAA and TNF α ; IL-1 β ,
 SAA and ASCA-A; IL-1 β , SAA and ASCA-G; IL-1 β , SAA and CBir1; IL-1 β , SAA and Fla2;
 IL-1 β , SAA and FlaX; IL-1 β , SAA and OmpC; IL-1 β , SAA and ADA; IL-1 β , VCAM and IL-2;
 IL-1 β , VCAM and IL-8; IL-1 β , VCAM and IL-12p70; IL-1 β , VCAM and GMCSF; IL-1 β ,
 30 VCAM and IFN γ ; IL-1 β , VCAM and IL-6; IL-1 β , VCAM and TNF α ; IL-1 β , VCAM and ASCA-
 A; IL-1 β , VCAM and ASCA-G; IL-1 β , VCAM and CBir1; IL-1 β , VCAM and Fla2; IL-1 β ,

VCAM and FlaX; IL-1 β , VCAM and OmpC; IL-1 β , VCAM and ADA; IL-1 β , IL-2 and IL-8; IL-
 1 β , IL-2 and IL-12p70; IL-1 β , IL-2 and GMCSF; IL-1 β , IL-2 and IFN γ ; IL-1 β , IL-2 and IL-6;
 IL-1 β , IL-2 and TNF α ; IL-1 β , IL-2 and ASCA-A; IL-1 β , IL-2 and ASCA-G; IL-1 β , IL-2 and
 CBir1; IL-1 β , IL-2 and Fla2; IL-1 β , IL-2 and FlaX; IL-1 β , IL-2 and OmpC; IL-1 β , IL-2 and
 5 ADA; IL-1 β , IL-8 and IL-12p70; IL-1 β , IL-8 and GMCSF; IL-1 β , IL-8 and IFN γ ; IL-1 β , IL-8
 and IL-6; IL-1 β , IL-8 and TNF α ; IL-1 β , IL-8 and ASCA-A; IL-1 β , IL-8 and ASCA-G; IL-1 β ,
 IL-8 and CBir1; IL-1 β , IL-8 and Fla2; IL-1 β , IL-8 and FlaX; IL-1 β , IL-8 and OmpC; IL-1 β , IL-8
 and ADA; IL-1 β , IL-12p70 and GMCSF; IL-1 β , IL-12p70 and IFN γ ; IL-1 β , IL-12p70 and IL-6;
 IL-1 β , IL-12p70 and TNF α ; IL-1 β , IL-12p70 and ASCA-A; IL-1 β , IL-12p70 and ASCA-G; IL-
 10 1 β , IL-12p70 and CBir1; IL-1 β , IL-12p70 and Fla2; IL-1 β , IL-12p70 and FlaX; IL-1 β , IL-12p70
 and OmpC; IL-1 β , IL-12p70 and ADA; IL-1 β , GMCSF and IFN γ ; IL-1 β , GMCSF and IL-6; IL-
 1 β , GMCSF and TNF α ; IL-1 β , GMCSF and ASCA-A; IL-1 β , GMCSF and ASCA-G; IL-1 β ,
 GMCSF and CBir1; IL-1 β , GMCSF and Fla2; IL-1 β , GMCSF and FlaX; IL-1 β , GMCSF and
 OmpC; IL-1 β , GMCSF and ADA; IL-1 β , IFN γ and IL-6; IL-1 β , IFN γ and TNF α ; IL-1 β , IFN γ
 15 and ASCA-A; IL-1 β , IFN γ and ASCA-G; IL-1 β , IFN γ and CBir1; IL-1 β , IFN γ and Fla2; IL-1 β ,
 IFN γ and FlaX; IL-1 β , IFN γ and OmpC; IL-1 β , IFN γ and ADA; IL-1 β , IL-6 and TNF α ; IL-1 β ,
 IL-6 and ASCA-A; IL-1 β , IL-6 and ASCA-G; IL-1 β , IL-6 and CBir1; IL-1 β , IL-6 and Fla2; IL-
 1 β , IL-6 and FlaX; IL-1 β , IL-6 and OmpC; IL-1 β , IL-6 and ADA; IL-1 β , TNF α and ASCA-A;
 IL-1 β , TNF α and ASCA-G; IL-1 β , TNF α and CBir1; IL-1 β , TNF α and Fla2; IL-1 β , TNF α and
 20 FlaX; IL-1 β , TNF α and OmpC; IL-1 β , TNF α and ADA; IL-1 β , ASCA-A and ASCA-G; IL-1 β ,
 ASCA-A and CBir1; IL-1 β , ASCA-A and Fla2; IL-1 β , ASCA-A and FlaX; IL-1 β , ASCA-A and
 OmpC; IL-1 β , ASCA-A and ADA; IL-1 β , ASCA-G and CBir1; IL-1 β , ASCA-G and Fla2; IL-
 1 β , ASCA-G and FlaX; IL-1 β , ASCA-G and OmpC; IL-1 β , ASCA-G and ADA; IL-1 β , CBir1
 and Fla2; IL-1 β , CBir1 and FlaX; IL-1 β , CBir1 and OmpC; IL-1 β , CBir1 and ADA; IL-1 β , Fla2
 25 and FlaX; IL-1 β , Fla2 and OmpC; IL-1 β , Fla2 and ADA; IL-1 β , FlaX and OmpC; IL-1 β , FlaX
 and ADA; IL-1 β , OmpC and ADA; GMCSF, TWEAK and CRP; GMCSF, TWEAK and ICAM;
 GMCSF, TWEAK and SAA; GMCSF, TWEAK and VCAM; GMCSF, TWEAK and IL-2;
 GMCSF, TWEAK and IL-8; GMCSF, TWEAK and IL-12p70; GMCSF, TWEAK and IL-1 β ;
 GMCSF, TWEAK and IFN γ ; GMCSF, TWEAK and IL-6; GMCSF, TWEAK and TNF α ;
 30 GMCSF, TWEAK and ASCA-A; GMCSF, TWEAK and ASCA-G; GMCSF, TWEAK and
 CBir1; GMCSF, TWEAK and Fla2; GMCSF, TWEAK and FlaX; GMCSF, TWEAK and

OmpC; GMCSF, TWEAK and ADA; GMCSF, CRP and ICAM; GMCSF, CRP and SAA;
 GMCSF, CRP and VCAM; GMCSF, CRP and IL-2; GMCSF, CRP and IL-8; GMCSF, CRP and
 IL-12p70; GMCSF, CRP and IL-1 β ; GMCSF, CRP and IFN γ ; GMCSF, CRP and IL-6; GMCSF,
 CRP and TNF α ; GMCSF, CRP and ASCA-A; GMCSF, CRP and ASCA-G; GMCSF, CRP and
 5 CBir1; GMCSF, CRP and Fla2; GMCSF, CRP and FlaX; GMCSF, CRP and OmpC; GMCSF,
 CRP and ADA; GMCSF, ICAM and SAA; GMCSF, ICAM and VCAM; GMCSF, ICAM and
 IL-2; GMCSF, ICAM and IL-8; GMCSF, ICAM and IL-12p70; GMCSF, ICAM and IL-1 β ;
 GMCSF, ICAM and IFN γ ; GMCSF, ICAM and IL-6; GMCSF, ICAM and TNF α ; GMCSF,
 ICAM and ASCA-A; GMCSF, ICAM and ASCA-G; GMCSF, ICAM and CBir1; GMCSF,
 10 ICAM and Fla2; GMCSF, ICAM and FlaX; GMCSF, ICAM and OmpC; GMCSF, ICAM and
 ADA; GMCSF, SAA and VCAM; GMCSF, SAA and IL-2; GMCSF, SAA and IL-8; GMCSF,
 SAA and IL-12p70; GMCSF, SAA and IL-1 β ; GMCSF, SAA and IFN γ ; GMCSF, SAA and IL-
 6; GMCSF, SAA and TNF α ; GMCSF, SAA and ASCA-A; GMCSF, SAA and ASCA-G;
 GMCSF, SAA and CBir1; GMCSF, SAA and Fla2; GMCSF, SAA and FlaX; GMCSF, SAA and
 15 OmpC; GMCSF, SAA and ADA; GMCSF, VCAM and IL-2; GMCSF, VCAM and IL-8;
 GMCSF, VCAM and IL-12p70; GMCSF, VCAM and IL-1 β ; GMCSF, VCAM and IFN γ ;
 GMCSF, VCAM and IL-6; GMCSF, VCAM and TNF α ; GMCSF, VCAM and ASCA-A;
 GMCSF, VCAM and ASCA-G; GMCSF, VCAM and CBir1; GMCSF, VCAM and Fla2;
 GMCSF, VCAM and FlaX; GMCSF, VCAM and OmpC; GMCSF, VCAM and ADA; GMCSF,
 20 IL-2 and IL-8; GMCSF, IL-2 and IL-12p70; GMCSF, IL-2 and IL-1 β ; GMCSF, IL-2 and IFN γ ;
 GMCSF, IL-2 and IL-6; GMCSF, IL-2 and TNF α ; GMCSF, IL-2 and ASCA-A; GMCSF, IL-2
 and ASCA-G; GMCSF, IL-2 and CBir1; GMCSF, IL-2 and Fla2; GMCSF, IL-2 and FlaX;
 GMCSF, IL-2 and OmpC; GMCSF, IL-2 and ADA; GMCSF, IL-8 and IL-12p70; GMCSF, IL-8
 and IL-1 β ; GMCSF, IL-8 and IFN γ ; GMCSF, IL-8 and IL-6; GMCSF, IL-8 and TNF α ; GMCSF,
 25 IL-8 and ASCA-A; GMCSF, IL-8 and ASCA-G; GMCSF, IL-8 and CBir1; GMCSF, IL-8 and
 Fla2; GMCSF, IL-8 and FlaX; GMCSF, IL-8 and OmpC; GMCSF, IL-8 and ADA; GMCSF, IL-
 12p70 and IL-1 β ; GMCSF, IL-12p70 and IFN γ ; GMCSF, IL-12p70 and IL-6; GMCSF, IL-
 12p70 and TNF α ; GMCSF, IL-12p70 and ASCA-A; GMCSF, IL-12p70 and ASCA-G; GMCSF,
 IL-12p70 and CBir1; GMCSF, IL-12p70 and Fla2; GMCSF, IL-12p70 and FlaX; GMCSF, IL-
 30 12p70 and OmpC; GMCSF, IL-12p70 and ADA; GMCSF, IL-1 β and IFN γ ; GMCSF, IL-1 β and
 IL-6; GMCSF, IL-1 β and TNF α ; GMCSF, IL-1 β and ASCA-A; GMCSF, IL-1 β and ASCA-G;

GMCSF, IL-1 β and CBir1; GMCSF, IL-1 β and Fla2; GMCSF, IL-1 β and FlaX; GMCSF, IL-1 β
 and OmpC; GMCSF, IL-1 β and ADA; GMCSF, IFN γ and IL-6; GMCSF, IFN γ and TNF α ;
 GMCSF, IFN γ and ASCA-A; GMCSF, IFN γ and ASCA-G; GMCSF, IFN γ and CBir1; GMCSF,
 IFN γ and Fla2; GMCSF, IFN γ and FlaX; GMCSF, IFN γ and OmpC; GMCSF, IFN γ and ADA;
 5 GMCSF, IL-6 and TNF α ; GMCSF, IL-6 and ASCA-A; GMCSF, IL-6 and ASCA-G; GMCSF,
 IL-6 and CBir1; GMCSF, IL-6 and Fla2; GMCSF, IL-6 and FlaX; GMCSF, IL-6 and OmpC;
 GMCSF, IL-6 and ADA; GMCSF, TNF α and ASCA-A; GMCSF, TNF α and ASCA-G; GMCSF,
 TNF α and CBir1; GMCSF, TNF α and Fla2; GMCSF, TNF α and FlaX; GMCSF, TNF α and
 OmpC; GMCSF, TNF α and ADA; GMCSF, ASCA-A and ASCA-G; GMCSF, ASCA-A and
 10 CBir1; GMCSF, ASCA-A and Fla2; GMCSF, ASCA-A and FlaX; GMCSF, ASCA-A and
 OmpC; GMCSF, ASCA-A and ADA; GMCSF, ASCA-G and CBir1; GMCSF, ASCA-G and
 Fla2; GMCSF, ASCA-G and FlaX; GMCSF, ASCA-G and OmpC; GMCSF, ASCA-G and
 ADA; GMCSF, CBir1 and Fla2; GMCSF, CBir1 and FlaX; GMCSF, CBir1 and OmpC;
 GMCSF, CBir1 and ADA; GMCSF, Fla2 and FlaX; GMCSF, Fla2 and OmpC; GMCSF, Fla2
 15 and ADA; GMCSF, FlaX and OmpC; GMCSF, FlaX and ADA; GMCSF, OmpC and ADA;
 IFN γ , TWEAK and CRP; IFN γ , TWEAK and ICAM; IFN γ , TWEAK and SAA; IFN γ , TWEAK
 and VCAM; IFN γ , TWEAK and IL-2; IFN γ , TWEAK and IL-8; IFN γ , TWEAK and IL-12p70;
 IFN γ , TWEAK and IL-1 β ; IFN γ , TWEAK and GMCSF; IFN γ , TWEAK and IL-6; IFN γ ,
 TWEAK and TNF α ; IFN γ , TWEAK and ASCA-A; IFN γ , TWEAK and ASCA-G; IFN γ , TWEAK
 20 and CBir1; IFN γ , TWEAK and Fla2; IFN γ , TWEAK and FlaX; IFN γ , TWEAK and OmpC;
 IFN γ , TWEAK and ADA; IFN γ , CRP and ICAM; IFN γ , CRP and SAA; IFN γ , CRP and VCAM;
 IFN γ , CRP and IL-2; IFN γ , CRP and IL-8; IFN γ , CRP and IL-12p70; IFN γ , CRP and IL-1 β ;
 IFN γ , CRP and GMCSF; IFN γ , CRP and IL-6; IFN γ , CRP and TNF α ; IFN γ , CRP and ASCA-A;
 IFN γ , CRP and ASCA-G; IFN γ , CRP and CBir1; IFN γ , CRP and Fla2; IFN γ , CRP and FlaX;
 25 IFN γ , CRP and OmpC; IFN γ , CRP and ADA; IFN γ , ICAM and SAA; IFN γ , ICAM and VCAM;
 IFN γ , ICAM and IL-2; IFN γ , ICAM and IL-8; IFN γ , ICAM and IL-12p70; IFN γ , ICAM and IL-
 1 β ; IFN γ , ICAM and GMCSF; IFN γ , ICAM and IL-6; IFN γ , ICAM and TNF α ; IFN γ , ICAM and
 ASCA-A; IFN γ , ICAM and ASCA-G; IFN γ , ICAM and CBir1; IFN γ , ICAM and Fla2; IFN γ ,
 ICAM and FlaX; IFN γ , ICAM and OmpC; IFN γ , ICAM and ADA; IFN γ , SAA and VCAM;
 30 IFN γ , SAA and IL-2; IFN γ , SAA and IL-8; IFN γ , SAA and IL-12p70; IFN γ , SAA and IL-1 β ;
 IFN γ , SAA and GMCSF; IFN γ , SAA and IL-6; IFN γ , SAA and TNF α ; IFN γ , SAA and ASCA-

A; IFN γ , SAA and ASCA-G; IFN γ , SAA and CBir1; IFN γ , SAA and Fla2; IFN γ , SAA and
 FlaX; IFN γ , SAA and OmpC; IFN γ , SAA and ADA; IFN γ , VCAM and IL-2; IFN γ , VCAM and
 IL-8; IFN γ , VCAM and IL-12p70; IFN γ , VCAM and IL-1 β ; IFN γ , VCAM and GMCSF; IFN γ ,
 VCAM and IL-6; IFN γ , VCAM and TNF α ; IFN γ , VCAM and ASCA-A; IFN γ , VCAM and
 5 ASCA-G; IFN γ , VCAM and CBir1; IFN γ , VCAM and Fla2; IFN γ , VCAM and FlaX; IFN γ ,
 VCAM and OmpC; IFN γ , VCAM and ADA; IFN γ , IL-2 and IL-8; IFN γ , IL-2 and IL-12p70;
 IFN γ , IL-2 and IL-1 β ; IFN γ , IL-2 and GMCSF; IFN γ , IL-2 and IL-6; IFN γ , IL-2 and TNF α ;
 IFN γ , IL-2 and ASCA-A; IFN γ , IL-2 and ASCA-G; IFN γ , IL-2 and CBir1; IFN γ , IL-2 and Fla2;
 IFN γ , IL-2 and FlaX; IFN γ , IL-2 and OmpC; IFN γ , IL-2 and ADA; IFN γ , IL-8 and IL-12p70;
 10 IFN γ , IL-8 and IL-1 β ; IFN γ , IL-8 and GMCSF; IFN γ , IL-8 and IL-6; IFN γ , IL-8 and TNF α ;
 IFN γ , IL-8 and ASCA-A; IFN γ , IL-8 and ASCA-G; IFN γ , IL-8 and CBir1; IFN γ , IL-8 and Fla2;
 IFN γ , IL-8 and FlaX; IFN γ , IL-8 and OmpC; IFN γ , IL-8 and ADA; IFN γ , IL-12p70 and IL-1 β ;
 IFN γ , IL-12p70 and GMCSF; IFN γ , IL-12p70 and IL-6; IFN γ , IL-12p70 and TNF α ; IFN γ , IL-
 12p70 and ASCA-A; IFN γ , IL-12p70 and ASCA-G; IFN γ , IL-12p70 and CBir1; IFN γ , IL-12p70
 15 and Fla2; IFN γ , IL-12p70 and FlaX; IFN γ , IL-12p70 and OmpC; IFN γ , IL-12p70 and ADA;
 IFN γ , IL-1 β and GMCSF; IFN γ , IL-1 β and IL-6; IFN γ , IL-1 β and TNF α ; IFN γ , IL-1 β and
 ASCA-A; IFN γ , IL-1 β and ASCA-G; IFN γ , IL-1 β and CBir1; IFN γ , IL-1 β and Fla2; IFN γ , IL-1 β
 and FlaX; IFN γ , IL-1 β and OmpC; IFN γ , IL-1 β and ADA; IFN γ , GMCSF and IL-6; IFN γ ,
 GMCSF and TNF α ; IFN γ , GMCSF and ASCA-A; IFN γ , GMCSF and ASCA-G; IFN γ , GMCSF
 20 and CBir1; IFN γ , GMCSF and Fla2; IFN γ , GMCSF and FlaX; IFN γ , GMCSF and OmpC; IFN γ ,
 GMCSF and ADA; IFN γ , IL-6 and TNF α ; IFN γ , IL-6 and ASCA-A; IFN γ , IL-6 and ASCA-G;
 IFN γ , IL-6 and CBir1; IFN γ , IL-6 and Fla2; IFN γ , IL-6 and FlaX; IFN γ , IL-6 and OmpC; IFN γ ,
 IL-6 and ADA; IFN γ , TNF α and ASCA-A; IFN γ , TNF α and ASCA-G; IFN γ , TNF α and CBir1;
 IFN γ , TNF α and Fla2; IFN γ , TNF α and FlaX; IFN γ , TNF α and OmpC; IFN γ , TNF α and ADA;
 25 IFN γ , ASCA-A and ASCA-G; IFN γ , ASCA-A and CBir1; IFN γ , ASCA-A and Fla2; IFN γ ,
 ASCA-A and FlaX; IFN γ , ASCA-A and OmpC; IFN γ , ASCA-A and ADA; IFN γ , ASCA-G and
 CBir1; IFN γ , ASCA-G and Fla2; IFN γ , ASCA-G and FlaX; IFN γ , ASCA-G and OmpC; IFN γ ,
 ASCA-G and ADA; IFN γ , CBir1 and Fla2; IFN γ , CBir1 and FlaX; IFN γ , CBir1 and OmpC;
 IFN γ , CBir1 and ADA; IFN γ , Fla2 and FlaX; IFN γ , Fla2 and OmpC; IFN γ , Fla2 and ADA;
 30 IFN γ , FlaX and OmpC; IFN γ , FlaX and ADA; IFN γ , OmpC and ADA; IL-6, TWEAK and CRP;
 IL-6, TWEAK and ICAM; IL-6, TWEAK and SAA; IL-6, TWEAK and VCAM; IL-6, TWEAK

and IL-2; IL-6, TWEAK and IL-8; IL-6, TWEAK and IL-12p70; IL-6, TWEAK and IL-1 β ; IL-6, TWEAK and GMCSF; IL-6, TWEAK and IFN γ ; TWEAK and TNF α ; IL-6, TWEAK and ASCA-A; IL-6, TWEAK and ASCA-G; IL-6, TWEAK and CBir1; IL-6, TWEAK and Fla2; IL-6, TWEAK and FlaX; IL-6, TWEAK and OmpC; IL-6, TWEAK and ADA; IL-6, CRP and

5 ICAM; IL-6, CRP and SAA; IL-6, CRP and VCAM; IL-6, CRP and IL-2; IL-6, CRP and IL-8; IL-6, CRP and IL-12p70; IL-6, CRP and IL-1 β ; IL-6, CRP and GMCSF; IL-6, CRP and IFN γ ; IL-6, CRP and TNF α ; IL-6, CRP and ASCA-A; IL-6, CRP and ASCA-G; IL-6, CRP and CBir1; IL-6, CRP and Fla2; IL-6, CRP and FlaX; IL-6, CRP and OmpC; IL-6, CRP and ADA; IL-6, ICAM and SAA; IL-6, ICAM and VCAM; IL-6, ICAM and IL-2; IL-6, ICAM and IL-8; IL-6,

10 ICAM and IL-12p70; IL-6, ICAM and IL-1 β ; IL-6, ICAM and GMCSF; IL-6, ICAM and IFN γ ; IL-6, ICAM and TNF α ; IL-6, ICAM and ASCA-A; IL-6, ICAM and ASCA-G; IL-6, ICAM and CBir1; IL-6, ICAM and Fla2; IL-6, ICAM and FlaX; IL-6, ICAM and OmpC; IL-6, ICAM and ADA; IL-6, SAA and VCAM; IL-6, SAA and IL-2; IL-6, IL-8; IL-6, SAA and IL-12p70; IL-6, SAA and IL-1 β ; IL-6, SAA and GMCSF; IL-6, SAA and IFN γ ; IL-6, SAA and TNF α ; IL-6,

15 SAA and ASCA-A; IL-6, SAA and ASCA-G; IL-6, SAA and CBir1; IL-6, SAA and Fla2; IL-6, SAA and FlaX; IL-6, SAA and OmpC; IL-6, SAA and ADA; IL-6, VCAM and IL-2; IL-6, VCAM and IL-8; IL-6, VCAM and IL-12p70; IL-6, VCAM and IL-1 β ; IL-6, VCAM and GMCSF; IL-6, VCAM and IFN γ ; IL-6, VCAM and TNF α ; IL-6, VCAM and ASCA-A; IL-6, VCAM and ASCA-G; IL-6, VCAM and CBir1; IL-6, VCAM and Fla2; IL-6, VCAM and FlaX;

20 IL-6, VCAM and OmpC; IL-6, VCAM and ADA; IL-6, IL-2 and IL-8; IL-6, IL-2 and IL-12p70; IL-6, IL-2 and IL-1 β ; IL-6, IL-2 and GMCSF; IL-6, IL-2 and IFN γ ; IL-6, IL-2 and TNF α ; IL-6, IL-2 and ASCA-A; IL-6, IL-2 and ASCA-G; IL-6, IL-2 and CBir1; IL-6, IL-2 and Fla2; IL-6, IL-2 and FlaX; IL-6, IL-2 and OmpC; IL-6, IL-2 and ADA; IL-6, IL-8 and IL-12p70; IL-6, IL-8 and IL-1 β ; IL-6, IL-8 and GMCSF; IL-6, IL-8 and IFN γ ; IL-6, IL-8 and TNF α ; IL-6, IL-8 and

25 ASCA-A; IL-6, IL-8 and ASCA-G; IL-6, IL-8 and CBir1; IL-6, IL-8 and Fla2; IL-6, IL-8 and FlaX; IL-6, IL-8 and OmpC; IL-6, IL-8 and ADA; IL-6, IL-12p70 and IL-1 β ; IL-6, IL-12p70 and GMCSF; IL-6, IL-12p70 and IFN γ ; IL-6, IL-12p70 and TNF α ; IL-6, IL-12p70 and ASCA-A; IL-6, IL-12p70 and ASCA-G; IL-6, IL-12p70 and CBir1; IL-6, IL-12p70 and Fla2; IL-6, IL-12p70 and FlaX; IL-6, IL-12p70 and OmpC; IL-6, IL-12p70 and ADA; IL-6, IL-1 β and GMCSF; IL-6,

30 IL-1 β and IFN γ ; IL-6, IL-1 β and TNF α ; IL-6, IL-1 β and ASCA-A; IL-6, IL-1 β and ASCA-G; IL-6, IL-1 β and CBir1; IL-6, IL-1 β and Fla2; IL-6, IL-1 β and FlaX; IL-6, IL-1 β and OmpC; IL-

6, IL-1 β and ADA; IL-6, GMCSF and IFN γ ; IL-6, GMCSF and TNF α ; IL-6, GMCSF and ASCA-A; IL-6, GMCSF and ASCA-G; IL-6, GMCSF and CBir1; IL-6, GMCSF and Fla2; IL-6, GMCSF and FlaX; IL-6, GMCSF and OmpC; IL-6, GMCSF and ADA; IL-6, IFN γ and TNF α ; IL-6, IFN γ and ASCA-A; IL-6, IFN γ and ASCA-G; IL-6, IFN γ and CBir1; IL-6, IFN γ and Fla2; 5 IL-6, IFN γ and FlaX; IL-6, IFN γ and OmpC; IL-6, IFN γ and ADA; IL-6, TNF α and ASCA-A; IL-6, TNF α and ASCA-G; IL-6, TNF α and CBir1; IL-6, TNF α and Fla2; IL-6, TNF α and FlaX; IL-6, TNF α and OmpC; IL-6, TNF α and ADA; IL-6, ASCA-A and ASCA-G; IL-6, ASCA-A and CBir1; IL-6, ASCA-A and Fla2; IL-6, ASCA-A and FlaX; IL-6, ASCA-A and OmpC; IL-6, ASCA-A and ADA; IL-6, ASCA-G and CBir1; IL-6, ASCA-G and Fla2; IL-6, ASCA-G and 10 FlaX; IL-6, ASCA-G and OmpC; IL-6, ASCA-G and ADA; IL-6, CBir1 and Fla2; IL-6, CBir1 and FlaX; IL-6, CBir1 and OmpC; IL-6, CBir1 and ADA; IL-6, Fla2 and FlaX; IL-6, Fla2 and OmpC; IL-6, Fla2 and ADA; IL-6, FlaX and OmpC; IL-6, FlaX and ADA; IL-6, OmpC and ADA; TNF α , TWEAK and CRP; TNF α , TWEAK and ICAM; TNF α , TWEAK and SAA; TNF α , TWEAK and VCAM; TNF α , TWEAK and IL-2; TNF α , TWEAK and IL-8; TNF α , TWEAK and 15 IL-12p70; TNF α , TWEAK and IL-1 β ; TNF α , TWEAK and GMCSF; TNF α , TWEAK and IFN γ ; TNF α , TWEAK and IL-6; TNF α , TWEAK and ASCA-A; TNF α , TWEAK and ASCA-G; TNF α , TWEAK and CBir1; TNF α , TWEAK and Fla2; TNF α , TWEAK and FlaX; TNF α , TWEAK and OmpC; TNF α , TWEAK and ADA; TNF α , CRP and ICAM; TNF α , CRP and SAA; TNF α , CRP and VCAM; TNF α , CRP and IL-2; TNF α , CRP and IL-8; TNF α , CRP and IL-12p70; TNF α , 20 CRP and IL-1 β ; TNF α , CRP and GMCSF; TNF α , CRP and IFN γ ; TNF α , CRP and IL-6; TNF α , CRP and TNF α ; TNF α , CRP and ASCA-A; TNF α , CRP and ASCA-G; TNF α , CRP and CBir1; TNF α , CRP and Fla2; TNF α , CRP and FlaX; TNF α , CRP and OmpC; TNF α , CRP and ADA; TNF α , ICAM and SAA; TNF α , ICAM and VCAM; TNF α , ICAM and IL-2; TNF α , ICAM and IL-8; TNF α , ICAM and IL-12p70; TNF α , ICAM and IL-1 β ; TNF α , ICAM and GMCSF; TNF α , 25 ICAM and IFN γ ; TNF α , ICAM and IL-6; TNF α , ICAM and ASCA-A; TNF α , ICAM and ASCA-G; TNF α , ICAM and CBir1; TNF α , ICAM and Fla2; TNF α , ICAM and FlaX; TNF α , ICAM and OmpC; TNF α , ICAM and ADA; TNF α , SAA and VCAM; TNF α , SAA and IL-2; TNF α , SAA and IL-8; TNF α , SAA and IL-12p70; TNF α , SAA and IL-1 β ; TNF α , SAA and GMCSF; TNF α , SAA and IFN γ ; TNF α , SAA and IL-6; TNF α , SAA and ASCA-A; TNF α , SAA 30 and ASCA-G; TNF α , SAA and CBir1; TNF α , SAA and Fla2; TNF α , SAA and FlaX; TNF α , SAA and OmpC; TNF α , SAA and ADA; TNF α , VCAM and IL-2; TNF α , VCAM and IL-8;

TNF α , VCAM and IL-12p70; TNF α , VCAM and IL-1 β ; TNF α , VCAM and GMCSF; TNF α ,
 VCAM and IFN γ ; TNF α , VCAM and IL-6; TNF α , VCAM and ASCA-A; TNF α , VCAM and
 ASCA-G; TNF α , VCAM and CBir1; TNF α , VCAM and Fla2; TNF α , VCAM and FlaX; TNF α ,
 VCAM and OmpC; TNF α , VCAM and ADA; TNF α , IL-2 and IL-8; TNF α , IL-2 and IL-12p70;
 5 TNF α , IL-2 and IL-1 β ; TNF α , IL-2 and GMCSF; TNF α , IL-2 and IFN γ ; TNF α , IL-2 and IL-6;
 TNF α , IL-2 and ASCA-A; TNF α , IL-2 and ASCA-G; TNF α , IL-2 and CBir1; TNF α , IL-2 and
 Fla2; TNF α , IL-2 and FlaX; TNF α , IL-2 and OmpC; TNF α , IL-2 and ADA; TNF α , IL-8 and IL-
 12p70; TNF α , IL-8 and IL-1 β ; TNF α , IL-8 and GMCSF; TNF α , IL-8 and IFN γ ; TNF α , IL-8 and
 IL-6; TNF α , IL-8 and ASCA-A; TNF α , IL-8 and ASCA-G; TNF α , IL-8 and CBir1; TNF α , IL-8
 10 and Fla2; TNF α , IL-8 and FlaX; TNF α , IL-8 and OmpC; TNF α , IL-8 and ADA; TNF α , IL-
 12p70 and IL-1 β ; TNF α , IL-12p70 and GMCSF; TNF α , IL-12p70 and IFN γ ; TNF α , IL-12p70
 and IL-6; TNF α , IL-12p70 and ASCA-A; TNF α , IL-12p70 and ASCA-G; TNF α , IL-12p70 and
 CBir1; TNF α , IL-12p70 and Fla2; TNF α , IL-12p70 and FlaX; TNF α , IL-12p70 and OmpC;
 TNF α , IL-12p70 and ADA; TNF α , IL-1 β and GMCSF; TNF α , IL-1 β and IFN γ ; TNF α , IL-1 β
 15 and IL-6; TNF α , IL-1 β and ASCA-A; TNF α , IL-1 β and ASCA-G; TNF α , IL-1 β and CBir1;
 TNF α , IL-1 β and Fla2; TNF α , IL-1 β and FlaX; TNF α , IL-1 β and OmpC; TNF α , IL-1 β and
 ADA; TNF α , GMCSF and IFN γ ; TNF α , GMCSF and IL-6; TNF α , GMCSF and TNF α ; TNF α ,
 GMCSF and ASCA-A; TNF α , GMCSF and ASCA-G; TNF α , GMCSF and CBir1; TNF α ,
 GMCSF and Fla2; TNF α , GMCSF and FlaX; TNF α , GMCSF and OmpC; TNF α , GMCSF and
 20 ADA; TNF α , IFN γ and IL-6; TNF α , IFN γ and ASCA-A; TNF α , IFN γ and ASCA-G; TNF α ,
 IFN γ and CBir1; TNF α , IFN γ and Fla2; TNF α , IFN γ and FlaX; TNF α , IFN γ and OmpC; TNF α ,
 IFN γ and ADA; TNF α , IL-6 and ASCA-A; TNF α , IL-6 and ASCA-G; TNF α , IL-6 and CBir1;
 TNF α , IL-6 and Fla2; TNF α , IL-6 and FlaX; TNF α , IL-6 and OmpC; TNF α , IL-6 and ADA;
 TNF α , ASCA-A and ASCA-G; TNF α , ASCA-A and CBir1; TNF α , ASCA-A and Fla2; TNF α ,
 25 ASCA-A and FlaX; TNF α , ASCA-A and OmpC; TNF α , ASCA-A and ADA; TNF α , ASCA-G
 and CBir1; TNF α , ASCA-G and Fla2; TNF α , ASCA-G and FlaX; TNF α , ASCA-G and OmpC;
 TNF α , ASCA-G and ADA; TNF α , CBir1 and Fla2; TNF α , CBir1 and FlaX; TNF α , CBir1 and
 OmpC; TNF α , CBir1 and ADA; TNF α , Fla2 and FlaX; TNF α , Fla2 and OmpC; TNF α , Fla2 and
 ADA; TNF α , FlaX and OmpC; TNF α , FlaX and ADA; TNF α , OmpC and ADA; ASCA-A,
 30 TWEAK and CRP; ASCA-A, TWEAK and ICAM; ASCA-A, TWEAK and SAA; ASCA-A,
 TWEAK and VCAM; ASCA-A, TWEAK and IL-2; ASCA-A, TWEAK and IL-8; ASCA-A,

TWEAK and IL-12p70; ASCA-A, TWEAK and IL-1 β ; ASCA-A, TWEAK and GMCSF;
 ASCA-A, TWEAK and IFN γ ; ASCA-A, TWEAK and IL-6; ASCA-A, TWEAK and TNF α ;
 ASCA-A, TWEAK and ASCA-G; ASCA-A, TWEAK and CBir1; ASCA-A, TWEAK and Fla2;
 ASCA-A, TWEAK and FlaX; ASCA-A, TWEAK and OmpC; ASCA-A, TWEAK and ADA;
 5 ASCA-A, CRP and ICAM; ASCA-A, CRP and SAA; ASCA-A, CRP and VCAM; ASCA-A,
 CRP and IL-2; ASCA-A, CRP and IL-8; ASCA-A, CRP and IL-12p70; ASCA-A, CRP and IL-
 1 β ; ASCA-A, CRP and GMCSF; ASCA-A, CRP and IFN γ ; ASCA-A, CRP and IL-6; ASCA-A,
 CRP and TNF α ; ASCA-A, CRP and ASCA-G; ASCA-A, CRP and CBir1; ASCA-A, CRP and
 Fla2; ASCA-A, CRP and FlaX; ASCA-A, CRP and OmpC; ASCA-A, CRP and ADA; ASCA-A,
 10 ICAM and SAA; ASCA-A, ICAM and VCAM; ASCA-A, ICAM and IL-2; ASCA-A, ICAM and
 IL-8; ASCA-A, ICAM and IL-12p70; ASCA-A, ICAM and IL-1 β ; ASCA-A, ICAM and
 GMCSF; ASCA-A, ICAM and IFN γ ; ASCA-A, ICAM and IL-6; ASCA-A, ICAM and TNF α ;
 ASCA-A, ICAM and ASCA-G; ASCA-A, ICAM and CBir1; ASCA-A, ICAM and Fla2; ASCA-
 A, ICAM and FlaX; ASCA-A, ICAM and OmpC; ASCA-A, ICAM and ADA; ASCA-A, SAA
 15 and VCAM; ASCA-A, SAA and IL-2; ASCA-A, SAA and IL-8; ASCA-A, SAA and IL-12p70;
 ASCA-A, SAA and IL-1 β ; ASCA-A, SAA and GMCSF; ASCA-A, SAA and IFN γ ; ASCA-A,
 SAA and IL-6; ASCA-A, SAA and TNF α ; ASCA-A, SAA and ASCA-G; ASCA-A, SAA and
 CBir1; ASCA-A, SAA and Fla2; ASCA-A, SAA and FlaX; ASCA-A, SAA and OmpC; ASCA-
 A, SAA and ADA; ASCA-A, VCAM and IL-2; ASCA-A, VCAM and IL-8; ASCA-A, VCAM
 20 and IL-12p70; ASCA-A, VCAM and IL-1 β ; ASCA-A, VCAM and GMCSF; ASCA-A, VCAM
 and IFN γ ; ASCA-A, VCAM and IL-6; ASCA-A, VCAM and TNF α ; ASCA-A, VCAM and
 ASCA-A; ASCA-A, VCAM and CBir1; ASCA-A, VCAM and Fla2; ASCA-A, VCAM and
 FlaX; ASCA-A, VCAM and OmpC; ASCA-A, VCAM and ADA; ASCA-A, IL-2 and IL-8;
 ASCA-A, IL-2 and IL-12p70; ASCA-A, IL-2 and IL-1 β ; ASCA-A, IL-2 and GMCSF; ASCA-A,
 25 IL-2 and IFN γ ; ASCA-A, IL-2 and IL-6; ASCA-A, IL-2 and TNF α ; ASCA-A, IL-2 and ASCA-
 G; ASCA-A, IL-2 and CBir1; ASCA-A, IL-2 and Fla2; ASCA-A, IL-2 and FlaX; ASCA-A, IL-2
 and OmpC; ASCA-A, IL-2 and ADA; ASCA-A, IL-8 and IL-12p70; ASCA-A, IL-8 and IL-1 β ;
 ASCA-A, IL-8 and GMCSF; ASCA-A, IL-8 and IFN γ ; ASCA-A, IL-8 and IL-6; ASCA-A, IL-8
 and TNF α ; ASCA-A, IL-8 and ASCA-G; ASCA-A, IL-8 and CBir1; ASCA-A, IL-8 and Fla2;
 30 ASCA-A, IL-8 and FlaX; ASCA-A, IL-8 and OmpC; ASCA-A, IL-8 and ADA; ASCA-A, IL-
 12p70 and IL-1 β ; ASCA-A, IL-12p70 and GMCSF; ASCA-A, IL-12p70 and IFN γ ; ASCA-A,

IL-12p70 and IL-6; ASCA-A, IL-12p70 and TNF α ; ASCA-A, IL-12p70 and ASCA-G; ASCA-A, IL-12p70 and CBir1; ASCA-A, IL-12p70 and Fla2; ASCA-A, IL-12p70 and FlaX; ASCA-A, IL-12p70 and OmpC; ASCA-A, IL-12p70 and ADA; ASCA-A, IL-1 β and GMCSF; ASCA-A, IL-1 β and IFN γ ; ASCA-A, IL-1 β and IL-6; ASCA-A, IL-1 β and TNF α ; ASCA-A, IL-1 β and ASCA-G; ASCA-A, IL-1 β and CBir1; ASCA-A, IL-1 β and Fla2; ASCA-A, IL-1 β and FlaX; ASCA-A, IL-1 β and OmpC; ASCA-A, IL-1 β and ADA; ASCA-A, GMCSF and IFN γ ; ASCA-A, GMCSF and IL-6; ASCA-A, GMCSF and TNF α ; ASCA-A, GMCSF and ASCA-G; ASCA-A, GMCSF and CBir1; ASCA-A, GMCSF and Fla2; ASCA-A, GMCSF and FlaX; ASCA-A, GMCSF and OmpC; ASCA-A, GMCSF and ADA; ASCA-A, IFN γ and IL-6; ASCA-A, IFN γ and TNF α ; ASCA-A, IFN γ and ASCA-G; ASCA-A, IFN γ and CBir1; ASCA-A, IFN γ and Fla2; ASCA-A, IFN γ and FlaX; ASCA-A, IFN γ and OmpC; ASCA-A, IFN γ and ADA; ASCA-A, IL-6 and TNF α ; ASCA-A, IL-6 and ASCA-G; ASCA-A, IL-6 and CBir1; ASCA-A, IL-6 and Fla2; ASCA-A, IL-6 and FlaX; ASCA-A, IL-6 and OmpC; ASCA-A, IL-6 and ADA; ASCA-A, ASCA-G and CBir1; ASCA-A, ASCA-G and Fla2; ASCA-A, ASCA-G and FlaX; ASCA-A, ASCA-G and OmpC; ASCA-A, ASCA-G and ADA; ASCA-A, CBir1 and Fla2; ASCA-A, CBir1 and FlaX; ASCA-A, CBir1 and OmpC; ASCA-A, CBir1 and ADA; ASCA-A, Fla2 and FlaX; ASCA-A, Fla2 and OmpC; ASCA-A, Fla2 and ADA; ASCA-A, FlaX and OmpC; ASCA-A, FlaX and ADA; ASCA-A, OmpC and ADA; ASCA-G, TWEAK and CRP; ASCA-G, TWEAK and ICAM; ASCA-G, TWEAK and SAA; ASCA-G, TWEAK and VCAM; ASCA-G, TWEAK and IL-2; ASCA-G, TWEAK and IL-8; ASCA-G, TWEAK and IL-12p70; ASCA-G, TWEAK and IL-1 β ; ASCA-G, TWEAK and GMCSF; ASCA-G, TWEAK and IFN γ ; ASCA-G, TWEAK and IL-6; ASCA-G, TWEAK and TNF α ; ASCA-G, TWEAK and ASCA-A; ASCA-G, TWEAK and CBir1; ASCA-G, TWEAK and Fla2; ASCA-G, TWEAK and FlaX; ASCA-G, TWEAK and OmpC; ASCA-G, TWEAK and ADA; ASCA-G, CRP and ICAM; ASCA-G, CRP and SAA; ASCA-G, CRP and VCAM; ASCA-G, CRP and IL-2; ASCA-G, CRP and IL-8; ASCA-G, CRP and IL-12p70; ASCA-G, CRP and IL-1 β ; ASCA-G, CRP and GMCSF; ASCA-G, CRP and IFN γ ; ASCA-G, CRP and IL-6; ASCA-G, CRP and TNF α ; ASCA-G, CRP and ASCA-A; ASCA-G, CRP and CBir1; ASCA-G, CRP and Fla2; ASCA-G, CRP and FlaX; ASCA-G, CRP and OmpC; ASCA-G, CRP and ADA; ASCA-G, ICAM and SAA; ASCA-G, ICAM and VCAM; ASCA-G, ICAM and IL-2; ASCA-G, ICAM and IL-8; ASCA-G, ICAM and IL-12p70; ASCA-G, ICAM and IL-1 β ; ASCA-G, ICAM and GMCSF; ASCA-G, ICAM and

IFN γ ; ASCA-G, ICAM and IL-6; ASCA-G, ICAM and TNF α ; ASCA-G, ICAM and ASCA-A;
 ASCA-G, ICAM and CBir1; ASCA-G, ICAM and Fla2; ASCA-G, ICAM and FlaX; ASCA-G,
 ICAM and OmpC; ASCA-G, ICAM and ADA; ASCA-G, SAA and VCAM; ASCA-G, SAA and
 IL-2; ASCA-G, SAA and IL-8; ASCA-G, SAA and IL-12p70; ASCA-G, SAA and IL-1 β ;
 5 ASCA-G, SAA and GMCSF; ASCA-G, SAA and IFN γ ; ASCA-G, SAA and IL-6; ASCA-G,
 SAA and TNF α ; ASCA-G, SAA and ASCA-A; ASCA-G, SAA and CBir1; ASCA-G, SAA and
 Fla2; ASCA-G, SAA and FlaX; ASCA-G, SAA and OmpC; ASCA-G, SAA and ADA; ASCA-
 G, VCAM and IL-2; ASCA-G, VCAM and IL-8; ASCA-G, VCAM and IL-12p70; ASCA-G,
 VCAM and IL-1 β ; ASCA-G, VCAM and GMCSF; ASCA-G, VCAM and IFN γ ; ASCA-G,
 10 VCAM and IL-6; ASCA-G, VCAM and TNF α ; ASCA-G, VCAM and ASCA-A; ASCA-G,
 VCAM and CBir1; ASCA-G, VCAM and Fla2; ASCA-G, VCAM and FlaX; ASCA-G, VCAM
 and OmpC; ASCA-G, VCAM and ADA; ASCA-G, IL-2 and IL-8; ASCA-G, IL-2 and IL-12p70;
 ASCA-G, IL-2 and IL-1 β ; ASCA-G, IL-2 and GMCSF; ASCA-G, IL-2 and IFN γ ; ASCA-G, IL-
 2 and IL-6; ASCA-G, IL-2 and TNF α ; ASCA-G, IL-2 and ASCA-A; ASCA-G, IL-2 and CBir1;
 15 ASCA-G, IL-2 and Fla2; ASCA-G, IL-2 and FlaX; ASCA-G, IL-2 and OmpC; ASCA-G, IL-2
 and ADA; ASCA-G, IL-8 and IL-12p70; ASCA-G, IL-8 and IL-1 β ; ASCA-G, IL-8 and
 GMCSF; ASCA-G, IL-8 and IFN γ ; ASCA-G, IL-8 and IL-6; ASCA-G, IL-8 and TNF α ; ASCA-
 G, IL-8 and ASCA-A; ASCA-G, IL-8 and CBir1; ASCA-G, IL-8 and Fla2; ASCA-G, IL-8 and
 FlaX; ASCA-G, IL-8 and OmpC; ASCA-G, IL-8 and ADA; ASCA-G, IL-12p70 and IL-1 β ;
 20 ASCA-G, IL-12p70 and GMCSF; ASCA-G, IL-12p70 and IFN γ ; ASCA-G, IL-12p70 and IL-6;
 ASCA-G, IL-12p70 and TNF α ; ASCA-G, IL-12p70 and ASCA-A; ASCA-G, IL-12p70 and
 CBir1; ASCA-G, IL-12p70 and Fla2; ASCA-G, IL-12p70 and FlaX; ASCA-G, IL-12p70 and
 OmpC; ASCA-G, IL-12p70 and ADA; ASCA-G, IL-1 β and GMCSF; ASCA-G, IL-1 β and IFN γ ;
 ASCA-G, IL-1 β and IL-6; ASCA-G, IL-1 β and TNF α ; ASCA-G, IL-1 β and ASCA-A; ASCA-G,
 25 IL-1 β and ASCA-G; ASCA-G, IL-1 β and CBir1; ASCA-G, IL-1 β and Fla2; ASCA-G, IL-1 β and
 FlaX; ASCA-G, IL-1 β and OmpC; ASCA-G, IL-1 β and ADA; ASCA-G, GMCSF and IFN γ ;
 ASCA-G, GMCSF and IL-6; ASCA-G, GMCSF and TNF α ; ASCA-G, GMCSF and ASCA-A;
 ASCA-G, GMCSF and ASCA-G; ASCA-G, GMCSF and CBir1; ASCA-G, GMCSF and Fla2;
 ASCA-G, GMCSF and FlaX; ASCA-G, GMCSF and OmpC; ASCA-G, GMCSF and ADA;
 30 ASCA-G, IFN γ and IL-6; ASCA-G, IFN γ and TNF α ; ASCA-G, IFN γ and ASCA-A; ASCA-G,
 IFN γ and CBir1; ASCA-G, IFN γ and Fla2; ASCA-G, IFN γ and FlaX; ASCA-G, IFN γ and

OmpC; ASCA-G, IFN γ and ADA; ASCA-G, IL-6 and TNF α ; ASCA-G, IL-6 and ASCA-A; ASCA-G, IL-6 and CBir1; ASCA-G, IL-6 and Fla2; ASCA-G, IL-6 and FlaX; ASCA-G, IL-6 and OmpC; ASCA-G, IL-6 and ADA; ASCA-G, TNF α and ASCA-A; ASCA-G, TNF α and CBir1; ASCA-G, TNF α and Fla2; ASCA-G, TNF α and FlaX; ASCA-G, TNF α and OmpC;

5 ASCA-G, TNF α and ADA; ASCA-G, ASCA-A and CBir1; ASCA-G, ASCA-A and Fla2; ASCA-G, ASCA-A and FlaX; ASCA-G, ASCA-A and OmpC; ASCA-G, ASCA-A and ADA; ASCA-G, CBir1 and Fla2; ASCA-G, CBir1 and FlaX; ASCA-G, CBir1 and OmpC; ASCA-G, CBir1 and ADA; ASCA-G, Fla2 and FlaX; ASCA-G, Fla2 and OmpC; ASCA-G, Fla2 and ADA; ASCA-G, FlaX and OmpC; ASCA-G, FlaX and ADA; ASCA-G, OmpC and ADA;

10 CBir1, TWEAK and CRP; CBir1, TWEAK and ICAM; CBir1, TWEAK and SAA; CBir1, TWEAK and VCAM; CBir1, TWEAK and IL-2; CBir1, TWEAK and IL-8; CBir1, TWEAK and IL-12p70; CBir1, TWEAK and IL-1 β ; CBir1, TWEAK and GMCSF; CBir1, TWEAK and IFN γ ; CBir1, TWEAK and IL-6; CBir1, TWEAK and TNF α ; CBir1, TWEAK and ASCA-A; CBir1, TWEAK and ASCA-G; CBir1, TWEAK and Fla2; CBir1, TWEAK and FlaX; CBir1, TWEAK and OmpC; CBir1, TWEAK and ADA; CBir1, CRP and ICAM; CBir1, CRP and SAA; CBir1, CRP and VCAM; CBir1, CRP and IL-2; CBir1, CRP and IL-8; CBir1, CRP and IL-12p70; CBir1, CRP and IL-1 β ; CBir1, CRP and GMCSF; CBir1, CRP and IFN γ ; CBir1, CRP and IL-6; CBir1, CRP and TNF α ; CBir1, CRP and ASCA-A; CBir1, CRP and ASCA-G; CBir1, CRP and Fla2; CBir1, CRP and FlaX; CBir1, CRP and OmpC; CBir1, CRP and ADA; CBir1, ICAM and SAA; CBir1, ICAM and VCAM; CBir1, ICAM and IL-2; CBir1, ICAM and IL-8; CBir1, ICAM and IL-12p70; CBir1, ICAM and IL-1 β ; CBir1, ICAM and GMCSF; CBir1, ICAM and IFN γ ; CBir1, ICAM and IL-6; CBir1, ICAM and TNF α ; CBir1, ICAM and ASCA-A; CBir1, ICAM and ASCA-G; CBir1, ICAM and Fla2; CBir1, ICAM and FlaX; CBir1, ICAM and OmpC; CBir1, ICAM and ADA; CBir1, SAA and VCAM; CBir1, SAA and IL-2; CBir1, IL-8; CBir1, SAA and IL-12p70; CBir1, SAA and IL-1 β ; CBir1, SAA and GMCSF; CBir1, SAA and IFN γ ; CBir1, SAA and IL-6; CBir1, SAA and TNF α ; CBir1, SAA and ASCA-A; CBir1, SAA and ASCA-G; CBir1, SAA and Fla2; CBir1, SAA and FlaX; CBir1, SAA and OmpC; CBir1, SAA and ADA; CBir1, VCAM and IL-2; CBir1, VCAM and IL-8; CBir1, VCAM and IL-12p70; CBir1, VCAM and IL-1 β ; CBir1, VCAM and GMCSF; CBir1, VCAM and IFN γ ; CBir1, VCAM and IL-6; CBir1, VCAM and TNF α ; CBir1, VCAM and ASCA-A; CBir1, VCAM and ASCA-G; CBir1, VCAM and Fla2; CBir1, VCAM and FlaX; CBir1, VCAM and OmpC; CBir1, VCAM

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and ADA; CBir1, IL-2 and IL-8; CBir1, IL-2 and IL-12p70; CBir1, IL-2 and IL-1 β ; CBir1, IL-2 and GMCSF; CBir1, IL-2 and IFN γ ; CBir1, IL-2 and IL-6; CBir1, IL-2 and TNF α ; CBir1, IL-2 and ASCA-A; CBir1, IL-2 and ASCA-G; CBir1, IL-2 and Fla2; CBir1, IL-2 and FlaX; CBir1, IL-2 and OmpC; CBir1, IL-2 and ADA; CBir1, IL-8 and IL-12p70; CBir1, IL-8 and IL-1 β ;

5 CBir1, IL-8 and GMCSF; CBir1, IL-8 and IFN γ ; CBir1, IL-8 and IL-6; CBir1, IL-8 and TNF α ; CBir1, IL-8 and ASCA-A; CBir1, IL-8 and ASCA-G; CBir1, IL-8 and Fla2; CBir1, IL-8 and FlaX; CBir1, IL-8 and OmpC; CBir1, IL-8 and ADA; CBir1, IL-12p70 and IL-1 β ; CBir1, IL-12p70 and GMCSF; CBir1, IL-12p70 and IFN γ ; CBir1, IL-12p70 and IL-6; CBir1, IL-12p70 and TNF α ; CBir1, IL-12p70 and ASCA-A; CBir1, IL-12p70 and ASCA-G; CBir1, IL-12p70 and

10 Fla2; CBir1, IL-12p70 and FlaX; CBir1, IL-12p70 and OmpC; CBir1, IL-12p70 and ADA; CBir1, IL-1 β and GMCSF; CBir1, IL-1 β and IFN γ ; CBir1, IL-1 β and IL-6; CBir1, IL-1 β and TNF α ; CBir1, IL-1 β and ASCA-A; CBir1, IL-1 β and ASCA-G; CBir1, IL-1 β and Fla2; CBir1, IL-1 β and FlaX; CBir1, IL-1 β and OmpC; CBir1, IL-1 β and ADA; CBir1, GMCSF and IFN γ ; CBir1, GMCSF and IL-6; CBir1, GMCSF and TNF α ; CBir1, GMCSF and ASCA-A; CBir1, GMCSF and ASCA-G; CBir1, GMCSF and Fla2; CBir1, GMCSF and FlaX; CBir1, GMCSF and OmpC; CBir1, GMCSF and ADA; CBir1, IFN γ and IL-6; CBir1, IFN γ and TNF α ; CBir1, IFN γ and ASCA-A; CBir1, IFN γ and ASCA-G; CBir1, IFN γ and Fla2; CBir1, IFN γ and FlaX; CBir1, IFN γ and OmpC; CBir1, IFN γ and ADA; CBir1, IL-6 and TNF α ; CBir1, IL-6 and

15 ASCA-A; CBir1, IL-6 and ASCA-G; CBir1, IL-6 and Fla2; CBir1, IL-6 and FlaX; CBir1, IL-6 and OmpC; CBir1, IL-6 and ADA; CBir1, TNF α and ASCA-A; CBir1, TNF α and ASCA-G; CBir1, TNF α and CBir1; CBir1, TNF α and Fla2; CBir1, TNF α and FlaX; CBir1, TNF α and OmpC; CBir1, TNF α and ADA; CBir1, ASCA-A and ASCA-G; CBir1, ASCA-A and Fla2; CBir1, ASCA-A and FlaX; CBir1, ASCA-A and OmpC; CBir1, ASCA-A and ADA; CBir1, ASCA-G and Fla2; CBir1, ASCA-G and FlaX; CBir1, ASCA-G and OmpC; CBir1, ASCA-G and ADA; CBir1, Fla2 and FlaX; CBir1, Fla2 and OmpC; CBir1, Fla2 and ADA; CBir1, FlaX and OmpC; CBir1, FlaX and ADA; CBir1, OmpC and ADA; Fla2, TWEAK and CRP; Fla2, TWEAK and ICAM; Fla2, TWEAK and SAA; Fla2, TWEAK and VCAM; Fla2, TWEAK and IL-2; Fla2, TWEAK and IL-8; Fla2, TWEAK and IL-12p70; Fla2, TWEAK and IL-1 β ; Fla2, TWEAK and GMCSF; Fla2, TWEAK and IFN γ ; Fla2, TWEAK and IL-6; Fla2, TWEAK and

25 TNF α ; Fla2, TWEAK and ASCA-A; Fla2, TWEAK and ASCA-G; Fla2, TWEAK and CBir1; Fla2, TWEAK and FlaX; Fla2, TWEAK and OmpC; Fla2, TWEAK and ADA; Fla2, CRP and

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ICAM; Fla2, CRP and SAA; Fla2, CRP and VCAM; Fla2, CRP and IL-2; Fla2, CRP and IL-8;
 Fla2, CRP and IL-12p70; Fla2, CRP and IL-1 β ; Fla2, CRP and GMCSF; Fla2, CRP and IFN γ ;
 Fla2, CRP and IL-6; Fla2, CRP and TNF α ; Fla2, CRP and ASCA-A; Fla2, CRP and ASCA-G;
 Fla2, CRP and CBir1; Fla2, CRP and FlaX; Fla2, CRP and OmpC; Fla2, CRP and ADA; Fla2,
 5 ICAM and SAA; Fla2, ICAM and VCAM; Fla2, ICAM and IL-2; Fla2, ICAM and IL-8; Fla2,
 ICAM and IL-12p70; Fla2, ICAM and IL-1 β ; Fla2, ICAM and GMCSF; Fla2, ICAM and IFN γ ;
 Fla2, ICAM and IL-6; Fla2, ICAM and TNF α ; Fla2, ICAM and ASCA-A; Fla2, ICAM and
 ASCA-G; Fla2, ICAM and CBir1; Fla2, ICAM and FlaX; Fla2, ICAM and OmpC; Fla2, ICAM
 and ADA; Fla2, SAA and VCAM; Fla2, SAA and IL-2; Fla2, SAA, and IL-8; Fla2, SAA and IL-
 10 12p70; Fla2, SAA and IL-1 β ; Fla2, SAA and GMCSF; Fla2, SAA and IFN γ ; Fla2, SAA and IL-
 6; Fla2, SAA and TNF α ; Fla2, SAA and ASCA-A; Fla2, SAA and ASCA-G; Fla2, SAA and
 CBir1; Fla2, SAA and FlaX; Fla2, SAA and OmpC; Fla2, SAA and ADA; Fla2, VCAM and IL-
 2; Fla2, VCAM and IL-8; Fla2, VCAM and IL-12p70; Fla2, VCAM and IL-1 β ; Fla2, VCAM
 and GMCSF; Fla2, VCAM and IFN γ ; Fla2, VCAM and IL-6; Fla2, VCAM and TNF α ; Fla2,
 15 VCAM and ASCA-A; Fla2, VCAM and ASCA-G; Fla2, VCAM and CBir1; Fla2, VCAM and
 FlaX; Fla2, VCAM and OmpC; Fla2, VCAM and ADA; Fla2, IL-2 and IL-8; Fla2, IL-2 and IL-
 12p70; Fla2, IL-2 and IL-1 β ; Fla2, IL-2 and GMCSF; Fla2, IL-2 and IFN γ ; Fla2, IL-2 and IL-6;
 Fla2, IL-2 and TNF α ; Fla2, IL-2 and ASCA-A; Fla2, IL-2 and ASCA-G; Fla2, IL-2 and CBir1;
 Fla2, IL-2 and FlaX; Fla2, IL-2 and OmpC; Fla2, IL-2 and ADA; Fla2, IL-8 and IL-12p70; Fla2,
 20 IL-8 and IL-1 β ; Fla2, IL-8 and GMCSF; Fla2, IL-8 and IFN γ ; Fla2, IL-8 and IL-6; Fla2, IL-8
 and TNF α ; Fla2, IL-8 and ASCA-A; Fla2, IL-8 and ASCA-G; Fla2, IL-8 and CBir1; Fla2, IL-8
 and FlaX; Fla2, IL-8 and OmpC; Fla2, IL-8 and ADA; Fla2, IL-12p70 and IL-1 β ; Fla2, IL-12p70
 and GMCSF; Fla2, IL-12p70 and IFN γ ; Fla2, IL-12p70 and IL-6; Fla2, IL-12p70 and TNF α ;
 Fla2, IL-12p70 and ASCA-A; Fla2, IL-12p70 and ASCA-G; Fla2, IL-12p70 and CBir1; Fla2,
 25 IL-12p70 and FlaX; Fla2, IL-12p70 and OmpC; Fla2, IL-12p70 and ADA; Fla2, IL-1 β and
 GMCSF; Fla2, IL-1 β and IFN γ ; Fla2, IL-1 β and IL-6; Fla2, IL-1 β and TNF α ; Fla2, IL-1 β and
 ASCA-A; Fla2, IL-1 β and ASCA-G; Fla2, IL-1 β and CBir1; Fla2, IL-1 β and FlaX; Fla2, IL-1 β
 and OmpC; Fla2, IL-1 β and ADA; Fla2, GMCSF and IFN γ ; Fla2, GMCSF and IL-6; Fla2,
 GMCSF and TNF α ; Fla2, GMCSF and ASCA-A; Fla2, GMCSF and ASCA-G; Fla2, GMCSF
 30 and CBir1; Fla2, GMCSF and FlaX; Fla2, GMCSF and OmpC; Fla2, GMCSF and ADA; Fla2,
 IFN γ and IL-6; Fla2, IFN γ and TNF α ; Fla2, IFN γ and ASCA-A; Fla2, IFN γ and ASCA-G; Fla2,

IFN γ and CBir1; Fla2, IFN γ and FlaX; Fla2, IFN γ and OmpC; Fla2, IFN γ and ADA; Fla2, IL-6 and TNF α ; Fla2, IL-6 and ASCA-A; Fla2, IL-6 and ASCA-G; Fla2, IL-6 and CBir1; Fla2, IL-6 and FlaX; Fla2, IL-6 and OmpC; Fla2, IL-6 and ADA; Fla2, TNF α and ASCA-A; Fla2, TNF α and ASCA-G; Fla2, TNF α and CBir1; Fla2, TNF α and FlaX; Fla2, TNF α and OmpC; Fla2, TNF α and ADA; Fla2, ASCA-A and ASCA-G; Fla2, ASCA-A and CBir1; Fla2, ASCA-A and FlaX; Fla2, ASCA-A and OmpC; Fla2, ASCA-A and ADA; Fla2, ASCA-G and CBir1; Fla2, ASCA-G and FlaX; Fla2, ASCA-G and OmpC; Fla2, ASCA-G and ADA; Fla2, CBir1 and FlaX; Fla2, CBir1 and OmpC; Fla2, CBir1 and ADA; Fla2, FlaX and OmpC; Fla2, FlaX and ADA; Fla2, OmpC and ADA; FlaX, TWEAK and CRP; FlaX, TWEAK and ICAM; FlaX, TWEAK and SAA; FlaX, TWEAK and VCAM; FlaX, TWEAK and IL-2; FlaX, TWEAK and IL-8; FlaX, TWEAK and IL-12p70; FlaX, TWEAK and IL-1 β ; FlaX, TWEAK and GMCSF; FlaX, TWEAK and IFN γ ; FlaX, TWEAK and IL-6; FlaX, TWEAK and TNF α ; FlaX, TWEAK and ASCA-A; FlaX, TWEAK and ASCA-G; FlaX, TWEAK and CBir1; FlaX, TWEAK and Fla2; FlaX, TWEAK and OmpC; FlaX, TWEAK and ADA; FlaX, CRP and ICAM; FlaX, CRP and SAA; FlaX, CRP and VCAM; FlaX, CRP and IL-2; FlaX, CRP and IL-8; FlaX, CRP and IL-12p70; FlaX, CRP and IL-1 β ; FlaX, CRP and GMCSF; FlaX, CRP and IFN γ ; FlaX, CRP and IL-6; FlaX, CRP and TNF α ; FlaX, CRP and ASCA-A; FlaX, CRP and ASCA-G; FlaX, CRP and CBir1; FlaX, CRP and Fla2; FlaX, CRP and OmpC; FlaX, CRP and ADA; FlaX, ICAM and SAA; FlaX, ICAM and VCAM; FlaX, ICAM and IL-2; FlaX, ICAM and IL-8; FlaX, ICAM and IL-12p70; FlaX, ICAM and IL-1 β ; FlaX, ICAM and GMCSF; FlaX, ICAM and IFN γ ; FlaX, ICAM and IL-6; FlaX, ICAM and TNF α ; FlaX, ICAM and ASCA-A; FlaX, ICAM and ASCA-G; FlaX, ICAM and CBir1; FlaX, ICAM and Fla2; FlaX, ICAM and OmpC; FlaX, ICAM and ADA; FlaX, SAA and VCAM; FlaX, SAA and IL-2; FlaX, SAA, and IL-8; FlaX, SAA and IL-12p70; FlaX, SAA and IL-1 β ; FlaX, SAA and GMCSF; FlaX, SAA and IFN γ ; FlaX, SAA and IL-6; FlaX, SAA and TNF α ; FlaX, SAA and ASCA-A; FlaX, SAA and ASCA-G; FlaX, SAA and CBir1; FlaX, SAA and Fla2; FlaX, SAA and OmpC; FlaX, SAA and ADA; FlaX, VCAM and IL-2; FlaX, VCAM and IL-8; FlaX, VCAM and IL-12p70; FlaX, VCAM and IL-1 β ; FlaX, VCAM and GMCSF; FlaX, VCAM and IFN γ ; FlaX, VCAM and IL-6; FlaX, VCAM and TNF α ; FlaX, VCAM and ASCA-A; FlaX, VCAM and ASCA-G; FlaX, VCAM and CBir1; FlaX, VCAM and Fla2; FlaX, VCAM and OmpC; FlaX, VCAM and ADA; FlaX, IL-2 and IL-8; FlaX, IL-2 and IL-12p70; FlaX, IL-2 and IL-1 β ; FlaX, IL-2 and GMCSF; FlaX, IL-2 and IFN γ ; FlaX,

IL-2 and IL-6; FlaX, IL-2 and TNF α ; FlaX, IL-2 and ASCA-A; FlaX, IL-2 and ASCA-G; FlaX,
 IL-2 and CBir1; FlaX, IL-2 and Fla2; FlaX, IL-2 and OmpC; FlaX, IL-2 and ADA; FlaX, IL-8
 and IL-12p70; FlaX, IL-8 and IL-1 β ; FlaX, IL-8 and GMCSF; FlaX, IL-8 and IFN γ ; FlaX, IL-8
 and IL-6; FlaX, IL-8 and TNF α ; FlaX, IL-8 and ASCA-A; FlaX, IL-8 and ASCA-G; FlaX, IL-8
 5 and CBir1; FlaX, IL-8 and Fla2; FlaX, IL-8 and OmpC; FlaX, IL-8 and ADA; FlaX, IL-12p70
 and IL-1 β ; FlaX, IL-12p70 and GMCSF; FlaX, IL-12p70 and IFN γ ; FlaX, IL-12p70 and IL-6;
 FlaX, IL-12p70 and TNF α ; FlaX, IL-12p70 and ASCA-A; FlaX, IL-12p70 and ASCA-G; FlaX,
 IL-12p70 and CBir1; FlaX, IL-12p70 and Fla2; FlaX, IL-12p70 and OmpC; FlaX, IL-12p70 and
 ADA; FlaX, IL-1 β and GMCSF; FlaX, IL-1 β and IFN γ ; FlaX, IL-1 β and IL-6; FlaX, IL-1 β and
 10 TNF α ; FlaX, IL-1 β and ASCA-A; FlaX, IL-1 β and ASCA-G; FlaX, IL-1 β and CBir1; FlaX, IL-
 1 β and Fla2; FlaX, IL-1 β and OmpC; FlaX, IL-1 β and ADA; FlaX, GMCSF and IFN γ ; FlaX,
 GMCSF and IL-6; FlaX, GMCSF and TNF α ; FlaX, GMCSF and ASCA-A; FlaX, GMCSF and
 ASCA-G; FlaX, GMCSF and CBir1; FlaX, GMCSF and Fla2; FlaX, GMCSF and OmpC; FlaX,
 GMCSF and ADA; FlaX, IFN γ and IL-6; FlaX, IFN γ and TNF α ; FlaX, IFN γ and ASCA-A;
 15 FlaX, IFN γ and ASCA-G; FlaX, IFN γ and CBir1; FlaX, IFN γ and Fla2; FlaX, IFN γ and FlaX;
 FlaX, IFN γ and OmpC; FlaX, IFN γ and ADA; FlaX, IL-6 and TNF α ; FlaX, IL-6 and ASCA-A;
 FlaX, IL-6 and ASCA-G; FlaX, IL-6 and CBir1; FlaX, IL-6 and Fla2; FlaX, IL-6 and OmpC;
 FlaX, IL-6 and ADA; FlaX, TNF α and ASCA-A; FlaX, TNF α and ASCA-G; FlaX, TNF α and
 CBir1; FlaX, TNF α and Fla2; FlaX, TNF α and OmpC; FlaX, TNF α and ADA; FlaX, ASCA-A
 20 and ASCA-G; FlaX, ASCA-A and CBir1; FlaX, ASCA-A and Fla2; FlaX, ASCA-A and OmpC;
 FlaX, ASCA-A and ADA; FlaX, ASCA-G and CBir1; FlaX, ASCA-G and Fla2; FlaX, ASCA-G
 and FlaX; FlaX, ASCA-G and OmpC; FlaX, ASCA-G and ADA; FlaX, CBir1 and Fla2; FlaX,
 CBir1 and FlaX; FlaX, CBir1 and OmpC; FlaX, CBir1 and ADA; FlaX, Fla2 and FlaX; FlaX,
 Fla2 and OmpC; FlaX, Fla2 and ADA; FlaX, OmpC and ADA; OmpC, TWEAK and CRP;
 25 OmpC, TWEAK and ICAM; OmpC, TWEAK and SAA; OmpC, TWEAK and VCAM; OmpC,
 TWEAK and IL-2; OmpC, TWEAK and IL-8; OmpC, TWEAK and IL-12p70; OmpC, TWEAK
 and IL-1 β ; OmpC, TWEAK and GMCSF; OmpC, TWEAK and IFN γ ; OmpC, TWEAK and IL-
 6; OmpC, TWEAK and TNF α ; OmpC, TWEAK and ASCA-A; OmpC, TWEAK and ASCA-G;
 OmpC, TWEAK and CBir1; OmpC, TWEAK and Fla2; OmpC, TWEAK and FlaX; OmpC,
 30 TWEAK and ADA; OmpC, CRP and ICAM; OmpC, CRP and SAA; OmpC, CRP and VCAM;
 OmpC, CRP and IL-2; OmpC, CRP and IL-8; OmpC, CRP and IL-12p70; OmpC, CRP and IL-

1 β ; OmpC, CRP and GMCSF; OmpC, CRP and IFN γ ; OmpC, CRP and IL-6; OmpC, CRP and
 TNF α ; OmpC, CRP and ASCA-A; OmpC, CRP and ASCA-G; OmpC, CRP and CBir1; OmpC,
 CRP and Fla2; OmpC, CRP and FlaX; OmpC, CRP and ADA; OmpC, ICAM and SAA; OmpC,
 ICAM and VCAM; OmpC, ICAM and IL-2; OmpC, ICAM and IL-8; OmpC, ICAM and IL-
 5 12p70; OmpC, ICAM and IL-1 β ; OmpC, ICAM and GMCSF; OmpC, ICAM and IFN γ ; OmpC,
 ICAM and IL-6; OmpC, ICAM and TNF α ; OmpC, ICAM and ASCA-A; OmpC, ICAM and
 ASCA-G; OmpC, ICAM and CBir1; OmpC, ICAM and Fla2; OmpC, ICAM and FlaX; OmpC,
 ICAM and ADA; OmpC, SAA and VCAM; OmpC, SAA and IL-2; OmpC, SAA, and IL-8;
 OmpC, SAA and IL-12p70; OmpC, SAA and IL-1 β ; OmpC, SAA and GMCSF; OmpC, SAA
 10 and IFN γ ; OmpC, SAA and IL-6; OmpC, SAA and TNF α ; OmpC, SAA and ASCA-A; OmpC,
 SAA and ASCA-G; OmpC, SAA and CBir1; OmpC, SAA and Fla2; OmpC, SAA and FlaX;
 OmpC, SAA and ADA; OmpC, VCAM and IL-2; OmpC, VCAM and IL-8; OmpC, VCAM and
 IL-12p70; OmpC, VCAM and IL-1 β ; OmpC, VCAM and GMCSF; OmpC, VCAM and IFN γ ;
 OmpC, VCAM and IL-6; OmpC, VCAM and TNF α ; OmpC, VCAM and ASCA-A; OmpC,
 15 VCAM and ASCA-G; OmpC, VCAM and CBir1; OmpC, VCAM and Fla2; OmpC, VCAM and
 FlaX; OmpC, VCAM and ADA; OmpC, IL-2 and IL-8; OmpC, IL-2 and IL-12p70; OmpC, IL-2
 and IL-1 β ; OmpC, IL-2 and GMCSF; OmpC, IL-2 and IFN γ ; OmpC, IL-2 and IL-6; OmpC, IL-2
 and TNF α ; OmpC, IL-2 and ASCA-A; OmpC, IL-2 and ASCA-G; OmpC, IL-2 and CBir1;
 OmpC, IL-2 and Fla2; OmpC, IL-2 and FlaX; OmpC, IL-2 and ADA; OmpC, IL-8 and IL-
 20 12p70; OmpC, IL-8 and IL-1 β ; OmpC, IL-8 and GMCSF; OmpC, IL-8 and IFN γ ; OmpC, IL-8
 and IL-6; OmpC, IL-8 and TNF α ; OmpC, IL-8 and ASCA-A; OmpC, IL-8 and ASCA-G;
 OmpC, IL-8 and CBir1; OmpC, IL-8 and Fla2; OmpC, IL-8 and FlaX; OmpC, IL-8 and ADA;
 OmpC, IL-12p70 and IL-1 β ; OmpC, IL-12p70 and GMCSF; OmpC, IL-12p70 and IFN γ ; OmpC,
 IL-12p70 and IL-6; OmpC, IL-12p70 and TNF α ; OmpC, IL-12p70 and ASCA-A; OmpC, IL-
 25 12p70 and ASCA-G; OmpC, IL-12p70 and CBir1; OmpC, IL-12p70 and Fla2; OmpC, IL-12p70
 and FlaX; OmpC, IL-12p70 and ADA; OmpC, IL-1 β and GMCSF; OmpC, IL-1 β and IFN γ ;
 OmpC, IL-1 β and IL-6; OmpC, IL-1 β and TNF α ; OmpC, IL-1 β and ASCA-A; OmpC, IL-1 β and
 ASCA-G; OmpC, IL-1 β and CBir1; OmpC, IL-1 β and Fla2; OmpC, IL-1 β and FlaX; OmpC, IL-
 1 β and ADA; OmpC, GMCSF and IFN γ ; OmpC, GMCSF and IL-6; OmpC, GMCSF and TNF α ;
 30 OmpC, GMCSF and ASCA-A; OmpC, GMCSF and ASCA-G; OmpC, GMCSF and CBir1;
 OmpC, GMCSF and Fla2; OmpC, GMCSF and FlaX; OmpC, GMCSF and ADA; OmpC, IFN γ

and IL-6; OmpC, IFN γ and TNF α ; OmpC, IFN γ and ASCA-A; OmpC, IFN γ and ASCA-G;
 OmpC, IFN γ and CBir1; OmpC, IFN γ and Fla2; OmpC, IFN γ and FlaX; OmpC, IFN γ and ADA;
 OmpC, IL-6 and TNF α ; OmpC, IL-6 and ASCA-A; OmpC, IL-6 and ASCA-G; OmpC, IL-6 and
 CBir1; OmpC, IL-6 and Fla2; OmpC, IL-6 and FlaX; OmpC, IL-6 and ADA; OmpC, TNF α and
 5 ASCA-A; OmpC, TNF α and ASCA-G; OmpC, TNF α and CBir1; OmpC, TNF α and Fla2;
 OmpC, TNF α and FlaX; OmpC, TNF α and ADA; OmpC, ASCA-A and ASCA-G; OmpC,
 ASCA-A and CBir1; OmpC, ASCA-A and Fla2; OmpC, ASCA-A and FlaX; OmpC, ASCA-A
 and ADA; OmpC, ASCA-G and CBir1; OmpC, ASCA-G and Fla2; OmpC, ASCA-G and FlaX;
 OmpC, ASCA-G and ADA; OmpC, CBir1 and Fla2; OmpC, CBir1 and FlaX; OmpC, CBir1 and
 10 ADA; OmpC, Fla2 and FlaX; OmpC, Fla2 and ADA; OmpC, FlaX and ADA; ADA, TWEAK
 and CRP; ADA, TWEAK and ICAM; ADA, TWEAK and SAA; ADA, TWEAK and VCAM;
 ADA, TWEAK and IL-2; ADA, TWEAK and IL-8; ADA, TWEAK and IL-12p70; ADA,
 TWEAK and IL-1 β ; ADA, TWEAK and GMCSF; ADA, TWEAK and IFN γ ; ADA, TWEAK
 and IL-6; ADA, TWEAK and TNF α ; ADA, TWEAK and ASCA-A; ADA, TWEAK and ASCA-
 15 G; ADA, TWEAK and CBir1; ADA, TWEAK and Fla2; ADA, TWEAK and FlaX; ADA,
 TWEAK and OmpC; ADA, CRP and ICAM; ADA, CRP and SAA; ADA, CRP and VCAM;
 ADA, CRP and IL-2; ADA, CRP and IL-8; ADA, CRP and IL-12p70; ADA, CRP and IL-1 β ;
 ADA, CRP and GMCSF; ADA, CRP and IFN γ ; ADA, CRP and IL-6; ADA, CRP and TNF α ;
 ADA, CRP and ASCA-A; ADA, CRP and ASCA-G; ADA, CRP and CBir1; ADA, CRP and
 20 Fla2; ADA, CRP and FlaX; ADA, CRP and OmpC; ADA, ICAM and SAA; ADA, ICAM and
 VCAM; ADA, ICAM and IL-2; ADA, ICAM and IL-8; ADA, ICAM and IL-12p70; ADA,
 ICAM and IL-1 β ; ADA, ICAM and GMCSF; ADA, ICAM and IFN γ ; ADA, ICAM and IL-6;
 ADA, ICAM and TNF α ; ADA, ICAM and ASCA-A; ADA, ICAM and ASCA-G; ADA, ICAM
 and CBir1; ADA, ICAM and Fla2; ADA, ICAM and FlaX; ADA, ICAM and OmpC; ADA,
 25 SAA and VCAM; ADA, SAA and IL-2; ADA, SAA and IL-8; ADA, SAA and IL-12p70; ADA,
 SAA and IL-1 β ; ADA, SAA and GMCSF; ADA, SAA and IFN γ ; ADA, SAA and IL-6; ADA,
 SAA and TNF α ; ADA, SAA and ASCA-A; ADA, SAA and ASCA-G; ADA, SAA and CBir1;
 ADA, SAA and Fla2; ADA, SAA and FlaX; ADA, SAA and OmpC; ADA, VCAM and IL-2;
 ADA, VCAM and IL-8; ADA, VCAM and IL-12p70; ADA, VCAM and IL-1 β ; ADA, VCAM
 30 and GMCSF; ADA, VCAM and IFN γ ; ADA, VCAM and IL-6; ADA, VCAM and TNF α ; ADA,
 VCAM and ASCA-A; ADA, VCAM and ASCA-G; ADA, VCAM and CBir1; ADA, VCAM

and Fla2; ADA, VCAM and FlaX; ADA, VCAM and OmpC; ADA, IL-2 and IL-8; ADA, IL-2 and IL-12p70; ADA, IL-2 and IL-1 β ; ADA, IL-2 and GMCSF; ADA, IL-2 and IFN γ ; ADA, IL-2 and IL-6; ADA, IL-2 and TNF α ; ADA, IL-2 and ASCA-A; ADA, IL-2 and ASCA-G; ADA, IL-2 and CBir1; ADA, IL-2 and Fla2; ADA, IL-2 and FlaX; ADA, IL-2 and OmpC; ADA, IL-8 and IL-12p70; ADA, IL-8 and IL-1 β ; ADA, IL-8 and GMCSF; ADA, IL-8 and IFN γ ; ADA, IL-8 and IL-6; ADA, IL-8 and TNF α ; ADA, IL-8 and ASCA-A; ADA, IL-8 and ASCA-G; ADA, IL-8 and CBir1; ADA, IL-8 and Fla2; ADA, IL-8 and FlaX; ADA, IL-8 and OmpC; ADA, IL-12p70 and IL-1 β ; ADA, IL-12p70 and GMCSF; ADA, IL-12p70 and IFN γ ; ADA, IL-12p70 and IL-6; ADA, IL-12p70 and TNF α ; ADA, IL-12p70 and ASCA-A; ADA, IL-12p70 and ASCA-G; ADA, IL-12p70 and CBir1; ADA, IL-12p70 and Fla2; ADA, IL-12p70 and FlaX; ADA, IL-12p70 and OmpC; ADA, IL-1 β and GMCSF; ADA, IL-1 β and IFN γ ; ADA, IL-1 β and IL-6; ADA, IL-1 β and TNF α ; ADA, IL-1 β and ASCA-A; ADA, IL-1 β and ASCA-G; ADA, IL-1 β and CBir1; ADA, IL-1 β and Fla2; ADA, IL-1 β and FlaX; ADA, IL-1 β and OmpC; ADA, GMCSF and IFN γ ; ADA, GMCSF and IL-6; ADA, GMCSF and TNF α ; ADA, GMCSF and ASCA-A; ADA, GMCSF and ASCA-G; ADA, GMCSF and CBir1; ADA, GMCSF and Fla2; ADA, GMCSF and FlaX; ADA, GMCSF and OmpC; ADA, IFN γ and IL-6; ADA, IFN γ and TNF α ; ADA, IFN γ and ASCA-A; ADA, IFN γ and ASCA-G; ADA, IFN γ and CBir1; ADA, IFN γ and Fla2; ADA, IFN γ and FlaX; ADA, IFN γ and OmpC; ADA, IFN γ and ADA; ADA, IL-6 and TNF α ; ADA, IL-6 and ASCA-A; ADA, IL-6 and ASCA-G; ADA, IL-6 and CBir1; ADA, IL-6 and Fla2; ADA, IL-6 and FlaX; ADA, IL-6 and OmpC; ADA, TNF α and ASCA-A; ADA, TNF α and ASCA-G; ADA, TNF α and CBir1; ADA, TNF α and Fla2; ADA, TNF α and FlaX; ADA, TNF α and OmpC; ADA, ASCA-A and ASCA-G; ADA, ASCA-A and CBir1; ADA, ASCA-A and Fla2; ADA, ASCA-A and FlaX; ADA, ASCA-A and OmpC; ADA, ASCA-G and CBir1; ADA, ASCA-G and Fla2; ADA, ASCA-G and FlaX; ADA, ASCA-G and OmpC; ADA, CBir1 and Fla2; ADA, CBir1 and FlaX; ADA, CBir1 and OmpC; ADA, Fla2 and FlaX; ADA, Fla2 and OmpC; ADA, FlaX and OmpC, and the like. In some instances, the combination of at least three markers can further include at least 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, or 17 of the other markers selected from the first set of markers to form an inflammatory phase marker score.

[0188] As described herein, the methods for assessing mucosal healing in a subject include measuring the concentration or level of a second set of markers used to form the proliferation phase marker score, wherein at least one or a plurality (*e.g.*, at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,

12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25) of the markers are selected from the group consisting of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL-10, an anti-TNF α antibody, and combinations thereof. In some embodiments, the

5 methods include measuring a combination of at least two markers selected from the group consisting of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL-10, and an anti-TNF α antibody, *e.g.*, AREG and EREG, AREG and HBEGF, AREG and HGF, AREG and HRGB, AREG and BTC, AREG and EGF, AREG and TGFA, AREG and

10 FGF1, AREG and FGF2, AREG and FGF4, AREG and FGF7, AREG and FGF9, AREG and FGF19, AREG and SCF, AREG and PDGFA, AREG and PDGFB, AREG and PDGFC, AREG and VEGFA, AREG and VEGFB, AREG and VEGFC, AREG and VEGFD, AREG and TGFB1, AREG and IL-10, AREG and an anti-TNF α antibody, EREG and HBEGF, EREG and HGF, EREG and HRGB, EREG and BTC, EREG and EGF, EREG and TGFA, EREG and FGF1,

15 EREG and FGF2, EREG and FGF4, EREG and FGF7, EREG and FGF9, EREG and FGF19, EREG and SCF, EREG and PDGFA, EREG and PDGFB, EREG and PDGFC, EREG and VEGFA, EREG and VEGFB, EREG and VEGFC, EREG and VEGFD, EREG and TGFB1, EREG and IL-10, EREG and an anti-TNF α antibody, HBEGF and HGF, HBEGF and HRGB, HBEGF and BTC, HBEGF and EGF, HBEGF and TGFA, HBEGF and FGF1, HBEGF and

20 FGF2, HBEGF and FGF4, HBEGF and FGF7, HBEGF and FGF9, HBEGF and FGF19, HBEGF and SCF, HBEGF and PDGFA, HBEGF and PDGFB, HBEGF and PDGFC, HBEGF and VEGFA, HBEGF and VEGFB, HBEGF and VEGFC, HBEGF and VEGFD, HBEGF and TGFB1, HBEGF and IL-10, HBEGF and an anti-TNF α antibody, HGF and HRGB, HGF and BTC, HGF and EGF, HGF and TGFA, HGF and FGF1, HGF and FGF2, HGF and FGF4, HGF and FGF7, HGF and FGF9, HGF and FGF19, HGF and SCF, HGF and PDGFA, HGF and

25 PDGFB, HGF and PDGFC, HGF and VEGFA, HGF and VEGFB, HGF and VEGFC, HGF and VEGFD, HGF and TGFB1, HGF and IL-10, HGF and an anti-TNF α antibody, HRGB and BTC, HRGB and EGF, HRGB and TGFA, HRGB and FGF1, HRGB and FGF2, HRGB and FGF4, HRGB and FGF7, HRGB and FGF9, HRGB and FGF19, HRGB and SCF, HRGB and PDGFA,

30 HRGB and PDGFB, HRGB and PDGFC, HRGB and VEGFA, HRGB and VEGFB, HRGB and VEGFC, HRGB and VEGFD, HRGB and TGFB1, HRGB and IL-10, HRGB and an anti-TNF α

antibody, BTC and EGF, BTC and TGFA, BTC and FGF1, BTC and FGF2, BTC and FGF4, BTC and FGF7, BTC and FGF9, BTC and FGF19, BTC and SCF, BTC and PDGFA, BTC and PDGFB, BTC and PDGFC, BTC and VEGFA, BTC and VEGFB, BTC and VEGFC, BTC and VEGFD, BTC and TGFB1, BTC and IL-10, BTC and an anti-TNF α antibody, EGF and TGFA, EGF and FGF1, EGF and FGF2, EGF and FGF4, EGF and FGF7, EGF and FGF9, EGF and FGF19, EGF and SCF, EGF and PDGFA, EGF and PDGFB, EGF and PDGFC, EGF and VEGFA, EGF and VEGFB, EGF and VEGFC, EGF and VEGFD, EGF and TGFB1, EGF and IL-10, EGF and an anti-TNF α antibody, TGFA and FGF1, TGFA and FGF2, TGFA and FGF4, TGFA and FGF7, TGFA and FGF9, TGFA and FGF19, TGFA and SCF, TGFA and PDGFA, TGFA and PDGFB, TGFA and PDGFC, TGFA and VEGFA, TGFA and VEGFB, TGFA and VEGFC, TGFA and VEGFD, TGFA and TGFB1, TGFA and IL-10, TGFA and an anti-TNF α antibody, FGF1 and FGF2, FGF1 and FGF4, FGF1 and FGF7, FGF1 and FGF9, FGF1 and FGF19, FGF1 and SCF, FGF1 and PDGFA, FGF1 and PDGFB, FGF1 and PDGFC, FGF1 and VEGFA, FGF1 and VEGFB, FGF1 and VEGFC, FGF1 and VEGFD, FGF1 and TGFB1, FGF1 and IL-10, FGF1 and an anti-TNF α antibody, FGF2 and FGF4, FGF2 and FGF7, FGF2 and FGF9, FGF2 and FGF19, FGF2 and SCF, FGF2 and PDGFA, FGF2 and PDGFB, FGF2 and PDGFC, FGF2 and VEGFA, FGF2 and VEGFB, FGF2 and VEGFC, FGF2 and VEGFD, FGF2 and TGFB1, FGF2 and IL-10, FGF2 and an anti-TNF α antibody, FGF4 and FGF7, FGF4 and FGF9, FGF4 and FGF19, FGF4 and SCF, FGF4 and PDGFA, FGF4 and PDGFB, FGF4 and PDGFC, FGF4 and VEGFA, FGF4 and VEGFB, FGF4 and VEGFC, FGF4 and VEGFD, FGF4 and TGFB1, FGF4 and IL-10, FGF4 and an anti-TNF α antibody, FGF7 and FGF9, FGF7 and FGF19, FGF7 and SCF, FGF7 and PDGFA, FGF7 and PDGFB, FGF7 and PDGFC, FGF7 and VEGFA, FGF7 and VEGFB, FGF7 and VEGFC, FGF7 and VEGFD, FGF7 and TGFB1, FGF7 and IL-10, FGF7 and an anti-TNF α antibody, FGF9 and FGF19, FGF9 and SCF, FGF9 and PDGFA, FGF9 and PDGFB, FGF9 and PDGFC, FGF9 and VEGFA, FGF9 and VEGFB, FGF9 and VEGFC, FGF9 and VEGFD, FGF9 and TGFB1, FGF9 and IL-10, FGF9 and an anti-TNF α antibody, FGF19 and SCF, FGF19 and PDGFA, FGF19 and PDGFB, FGF19 and PDGFC, FGF19 and VEGFA, FGF19 and VEGFB, FGF19 and VEGFC, FGF19 and VEGFD, FGF19 and TGFB1, FGF19 and IL-10, FGF19 and an anti-TNF α antibody, SCF and PDGFA, SCF and PDGFB, SCF and PDGFC, SCF and VEGFA, SCF and VEGFB, SCF and VEGFC, SCF and VEGFD, SCF and TGFB1, SCF and IL-10, SCF and an anti-TNF α antibody, PDGFA and

PDGFB, PDGFA and PDGFC, PDGFA and VEGFA, PDGFA and VEGFB, PDGFA and VEGFC, PDGFA and VEGFD, PDGFA and TGFB1, PDGFA and IL-10, PDGFA and an anti-TNF α antibody, PDGFB and PDGFC, PDGFB and VEGFA, PDGFB and VEGFB, PDGFB and VEGFC, PDGFB and VEGFD, PDGFB and TGFB1, PDGFB and IL-10, PDGFB and an anti-TNF α antibody, PDGFC and VEGFA, PDGFC and VEGFB, PDGFC and VEGFC, PDGFC and VEGFD, PDGFC and TGFB1, PDGFC and IL-10, PDGFC and an anti-TNF α antibody, VEGFA and VEGFB, VEGFA and VEGFC, VEGFA and VEGFD, VEGFA and TGFB1, VEGFA and IL-10, VEGFA and an anti-TNF α antibody, VEGFB and VEGFC, VEGFB and VEGFD, VEGFB and TGFB1, VEGFB and IL-10, VEGFB and an anti-TNF α antibody, VEGFC and VEGFD, VEGFC and TGFB1, VEGFC and IL-10, VEGFC and an anti-TNF α antibody, VEGFD and TGFB1, VEGFD and IL-10, VEGFD and an anti-TNF α antibody, TGFB1 and IL-10, TGFB1 and an anti-TNF α antibody, IL-10 and an anti-TNF α antibody, and the like. In some instances, the combination of at least two markers can further include at least 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, or 23 of the other markers selected from the second set of markers to form a proliferation phase marker score.

[0189] In some embodiments, the methods include measuring a combination of at least three markers selected from the group consisting of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL-10, and an anti-TNF α antibody, *e.g.*, AREG, EREG and HBEGF; AREG, EREG and HGF; AREG, EREG and HRGB; AREG, EREG and BTC; AREG, EREG and EGF; AREG, EREG and TGFA; AREG, EREG and FGF1; AREG, EREG and FGF2; AREG, EREG and FGF4; AREG, EREG and FGF7; AREG, EREG and FGF9; AREG, EREG and FGF19; AREG, EREG and SCF; AREG, EREG and PDGFA; AREG, EREG and PDGFB; AREG, EREG and PDGFC; AREG, EREG and VEGFA; AREG, EREG and VEGFB; AREG, EREG and VEGFC; AREG, EREG and VEGFD; AREG, EREG and TGFB1; AREG, EREG and IL-10; AREG, EREG and an anti-TNF α antibody; AREG, HBEGF and HGF; AREG, HBEGF and HRGB; AREG, HBEGF and BTC; AREG, HBEGF and EGF; AREG, HBEGF and TGFA; AREG, HBEGF and FGF1; AREG, HBEGF and FGF2; AREG, HBEGF and FGF4; AREG, HBEGF and FGF7; AREG, HBEGF and FGF9; AREG, HBEGF and FGF19; AREG, HBEGF and SCF; AREG, HBEGF and PDGFA; AREG, HBEGF and PDGFB; AREG, HBEGF and PDGFC; AREG, HBEGF and VEGFA; AREG, HBEGF and

VEGFB; AREG, HBEGF and VEGFC; AREG, HBEGF and VEGFD; AREG, HBEGF and
 TGFB1; AREG, HBEGF and IL-10; AREG, HBEGF and an anti-TNF α antibody; AREG, HGF
 and HRGB; AREG, HGF and BTC; AREG, HGF and EGF; AREG, HGF and TGFA; AREG,
 HGF and FGF1; AREG, HGF and FGF2; AREG, HGF and FGF4; AREG, HGF and FGF7;
 5 AREG, HGF and FGF9; AREG, HGF and FGF19; AREG, HGF and SCF; AREG, HGF and
 PDGFA; AREG, HGF and PDGFB; AREG, HGF and PDGFC; AREG, HGF and VEGFA;
 AREG, HGF and VEGFB; AREG, HGF and VEGFC; AREG, HGF and VEGFD; AREG, HGF
 and TGFB1; AREG, HGF and IL-10; AREG, HGF and an anti-TNF α antibody; AREG, HRGB
 and BTC; AREG, HRGB and EGF; AREG, HRGB and TGFA; AREG, HRGB and FGF1;
 10 AREG, HRGB and FGF2; AREG, HRGB and FGF4; AREG, HRGB and FGF7; AREG, HRGB
 and FGF9; AREG, HRGB and FGF19; AREG, HRGB and SCF; AREG, HRGB and PDGFA;
 AREG, HRGB and PDGFB; AREG, HRGB and PDGFC; AREG, HRGB and VEGFA; AREG,
 HRGB and VEGFB; AREG, HRGB and VEGFC; AREG, HRGB and VEGFD; AREG, HRGB
 and TGFB1; AREG, HRGB and IL-10; AREG, HRGB and an anti-TNF α antibody; AREG, BTC
 15 and EGF; AREG, BTC and TGFA; AREG, BTC and FGF1; AREG, BTC and FGF2; AREG,
 BTC and FGF4; AREG, BTC and FGF7; AREG, BTC and FGF9; AREG, BTC and FGF19;
 AREG, BTC and SCF; AREG, BTC and PDGFA; AREG, BTC and PDGFB; AREG, BTC and
 PDGFC; AREG, BTC and VEGFA; AREG, BTC and VEGFB; AREG, BTC and VEGFC;
 AREG, BTC and VEGFD; AREG, BTC and TGFB1; AREG, BTC and IL-10; AREG, BTC and
 20 an anti-TNF α antibody; AREG, EGF and TGFA; AREG, EGF and FGF1; AREG, EGF and
 FGF2; AREG, EGF and FGF4; AREG, EGF and FGF7; AREG, EGF and FGF9; AREG, EGF
 and FGF19; AREG, EGF and SCF; AREG, EGF and PDGFA; AREG, EGF and PDGFB;
 AREG, EGF and PDGFC; AREG, EGF and VEGFA; AREG, EGF and VEGFB; AREG, EGF
 and VEGFC; AREG, EGF and VEGFD; AREG, EGF and TGFB1; AREG, EGF and IL-10;
 25 AREG, EGF and an anti-TNF α antibody; AREG, TGFA and FGF1; AREG, TGFA and FGF2;
 AREG, TGFA and FGF4; AREG, TGFA and FGF7; AREG, TGFA and FGF9; AREG, TGFA
 and FGF19; AREG, TGFA and SCF; AREG, TGFA and PDGFA; AREG, TGFA and PDGFB;
 AREG, TGFA and PDGFC; AREG, TGFA and VEGFA; AREG, TGFA and VEGFB; AREG,
 TGFA and VEGFC; AREG, TGFA and VEGFD; AREG, TGFA and TGFB1; AREG, TGFA and
 30 IL-10; AREG, TGFA and an anti-TNF α antibody; AREG, FGF1 and FGF2; AREG, FGF1 and
 FGF4; AREG, FGF1 and FGF7; AREG, FGF1 and FGF9; AREG, FGF1 and FGF19; AREG,

FGF1 and SCF; AREG, FGF1 and PDGFA; AREG, FGF1 and PDGFB; AREG, FGF1 and
 PDGFC; AREG, FGF1 and VEGFA; AREG, FGF1 and VEGFB; AREG, FGF1 and VEGFC;
 AREG, FGF1 and VEGFD; AREG, FGF1 and TGFB1; AREG, FGF1 and IL-10; AREG, FGF1
 and an anti-TNF α antibody; AREG, FGF2 and FGF4; AREG, FGF2 and FGF7; AREG, FGF2
 5 and FGF9; AREG, FGF2 and FGF19; AREG, FGF2 and SCF; AREG, FGF2 and PDGFA;
 AREG, FGF2 and PDGFB; AREG, FGF2 and PDGFC; AREG, FGF2 and VEGFA; AREG,
 FGF2 and VEGFB; AREG, FGF2 and VEGFC; AREG, FGF2 and VEGFD; AREG, FGF2 and
 TGFB1; AREG, FGF2 and IL-10; AREG, FGF2 and an anti-TNF α antibody; AREG, FGF4 and
 FGF7; AREG, FGF4 and FGF9; AREG, FGF4 and FGF19; AREG, FGF4 and SCF; AREG,
 10 FGF4 and PDGFA; AREG, FGF4 and PDGFB; AREG, FGF4 and PDGFC; AREG, FGF4 and
 VEGFA; AREG, FGF4 and VEGFB; AREG, FGF4 and VEGFC; AREG, FGF4 and VEGFD;
 AREG, FGF4 and TGFB1; AREG, FGF4 and IL-10; AREG, FGF4 and an anti-TNF α antibody;
 AREG, FGF7 and FGF9; AREG, FGF7 and FGF19; AREG, FGF7 and SCF; AREG, FGF7 and
 PDGFA; AREG, FGF7 and PDGFB; AREG, FGF7 and PDGFC; AREG, FGF7 and VEGFA;
 15 AREG, FGF7 and VEGFB; AREG, FGF7 and VEGFC; AREG, FGF7 and VEGFD; AREG,
 FGF7 and TGFB1; AREG, FGF7 and IL-10; AREG, FGF7 and an anti-TNF α antibody; AREG,
 FGF9 and FGF19; AREG, FGF9 and SCF; AREG, FGF9 and PDGFA; AREG, FGF9 and
 PDGFB; AREG, FGF9 and PDGFC; AREG, FGF9 and VEGFA; AREG, FGF9 and VEGFB;
 AREG, FGF9 and VEGFC; AREG, FGF9 and VEGFD; AREG, FGF9 and TGFB1; AREG,
 20 FGF9 and IL-10; AREG, FGF9 and an anti-TNF α antibody; AREG, FGF19 and SCF; AREG,
 FGF19 and PDGFA; AREG, FGF19 and PDGFB; AREG, FGF19 and PDGFC; AREG, FGF19
 and VEGFA; AREG, FGF19 and VEGFB; AREG, FGF19 and VEGFC; AREG, FGF19 and
 VEGFD; AREG, FGF19 and TGFB1; AREG, FGF19 and IL-10; AREG, FGF19 and an anti-
 TNF α antibody; AREG, SCF and PDGFA; AREG, SCF and PDGFB; AREG, SCF and PDGFC;
 25 AREG, SCF and VEGFA; AREG, SCF and VEGFB; AREG, SCF and VEGFC; AREG, SCF
 and VEGFD; AREG, SCF and TGFB1; AREG, SCF and IL-10; AREG, SCF and an anti-TNF α
 antibody; AREG, PDGFA and PDGFB; AREG, PDGFA and PDGFC; AREG, PDGFA and
 VEGFA; AREG, PDGFA and VEGFB; AREG, PDGFA and VEGFC; AREG, PDGFA and
 VEGFD; AREG, PDGFA and TGFB1; AREG, PDGFA and IL-10; AREG, PDGFA and an anti-
 30 TNF α antibody; AREG, PDGFB and PDGFC; AREG, PDGFB and VEGFA; AREG, PDGFB
 and VEGFB; AREG, PDGFB and VEGFC; AREG, PDGFB and VEGFD; AREG, PDGFB and

TGFB1; AREG, PDGFB and IL-10; AREG, PDGFB and an anti-TNF α antibody; AREG,
 PDGFC and VEGFA; AREG, PDGFC and VEGFB; AREG, PDGFC and VEGFC; AREG,
 PDGFC and VEGFD; AREG, PDGFC and TGFB1; AREG, PDGFC and IL-10; AREG, PDGFC
 and an anti-TNF α antibody; AREG, VEGFA and VEGFB; AREG, VEGFA and VEGFC; AREG,
 5 VEGFA and VEGFD; AREG, VEGFA and TGFB1; AREG, VEGFA and IL-10; AREG,
 VEGFA and an anti-TNF α antibody; AREG, VEGFB and VEGFC; AREG, VEGFB and
 VEGFD; AREG, VEGFB and TGFB1; AREG, VEGFB and IL-10; AREG, VEGFB and an anti-
 TNF α antibody; AREG, VEGFC and VEGFD; AREG, VEGFC and TGFB1; AREG, VEGFC
 and IL-10; AREG, VEGFC and an anti-TNF α antibody; AREG, VEGFD and TGFB1; AREG,
 10 VEGFD and IL-10; AREG, VEGFD and an anti-TNF α antibody; AREG, TGFB1 and IL-10;
 AREG, TGFB1 and an anti-TNF α antibody; AREG, IL-10 and an anti-TNF α antibody; EREG,
 AREG and HBEGF; EREG, AREG and HGF; EREG, AREG and HRGB; EREG, AREG and
 BTC; EREG, AREG and EGF; EREG, AREG and TGFA; EREG, AREG and FGF1; EREG,
 AREG and FGF2; EREG, AREG and FGF4; EREG, AREG and FGF7; EREG, AREG and
 15 FGF9; EREG, AREG and FGF19; EREG, AREG and SCF; EREG, AREG and PDGFA; EREG,
 AREG and PDGFB; EREG, AREG and PDGFC; EREG, AREG and VEGFA; EREG, AREG
 and VEGFB; EREG, AREG and VEGFC; EREG, AREG and VEGFD; EREG, AREG and
 TGFB1; EREG, AREG and IL-10; EREG, AREG and an anti-TNF α antibody; EREG, HBEGF
 and HGF; EREG, HBEGF and HRGB; EREG, HBEGF and BTC; EREG, HBEGF and EGF;
 20 EREG, HBEGF and TGFA; EREG, HBEGF and FGF1; EREG, HBEGF and FGF2; EREG,
 HBEGF and FGF4; EREG, HBEGF and FGF7; EREG, HBEGF and FGF9; EREG, HBEGF and
 FGF19; EREG, HBEGF and SCF; EREG, HBEGF and PDGFA; EREG, HBEGF and PDGFB;
 EREG, HBEGF and PDGFC; EREG, HBEGF and VEGFA; EREG, HBEGF and VEGFB;
 EREG, HBEGF and VEGFC; EREG, HBEGF and VEGFD; EREG, HBEGF and TGFB1;
 25 EREG, HBEGF and IL-10; EREG, HBEGF and an anti-TNF α antibody; EREG, HGF and
 HRGB; EREG, HGF and BTC; EREG, HGF and EGF; EREG, HGF and TGFA; EREG, HGF
 and FGF1; EREG, HGF and FGF2; EREG, HGF and FGF4; EREG, HGF and FGF7; EREG,
 HGF and FGF9; EREG, HGF and FGF19; EREG, HGF and SCF; EREG, HGF and PDGFA;
 EREG, HGF and PDGFB; EREG, HGF and PDGFC; EREG, HGF and VEGFA; EREG, HGF
 30 and VEGFB; EREG, HGF and VEGFC; EREG, HGF and VEGFD; EREG, HGF and TGFB1;
 EREG, HGF and IL-10; EREG, HGF and an anti-TNF α antibody; EREG, HRGB and BTC;

EREG, HRGB and EGF; EREG, HRGB and TGFA; EREG, HRGB and FGF1; EREG, HRGB
 and FGF2; EREG, HRGB and FGF4; EREG, HRGB and FGF7; EREG, HRGB and FGF9;
 EREG, HRGB and FGF19; EREG, HRGB and SCF; EREG, HRGB and PDGFA; EREG, HRGB
 and PDGFB; EREG, HRGB and PDGFC; EREG, HRGB and VEGFA; EREG, HRGB and
 5 VEGFB; EREG, HRGB and VEGFC; EREG, HRGB and VEGFD; EREG, HRGB and TGFB1;
 EREG, HRGB and IL-10; EREG, HRGB and an anti-TNF α antibody; EREG, BTC and EGF;
 EREG, BTC and TGFA; EREG, BTC and FGF1; EREG, BTC and FGF2; EREG, BTC and
 FGF4; EREG, BTC and FGF7; EREG, BTC and FGF9; EREG, BTC and FGF19; EREG, BTC
 and SCF; EREG, BTC and PDGFA; EREG, BTC and PDGFB; EREG, BTC and PDGFC;
 10 EREG, BTC and VEGFA; EREG, BTC and VEGFB; EREG, BTC and VEGFC; EREG, BTC
 and VEGFD; EREG, BTC and TGFB1; EREG, BTC and IL-10; EREG, BTC and an anti-TNF α
 antibody; EREG, EGF and TGFA; EREG, EGF and FGF1; EREG, EGF and FGF2; EREG, EGF
 and FGF4; EREG, EGF and FGF7; EREG, EGF and FGF9; EREG, EGF and FGF19; EREG,
 EGF and SCF; EREG, EGF and PDGFA; EREG, EGF and PDGFB; EREG, EGF and PDGFC;
 15 EREG, EGF and VEGFA; EREG, EGF and VEGFB; EREG, EGF and VEGFC; EREG, EGF and
 VEGFD; EREG, EGF and TGFB1; EREG, EGF and IL-10; EREG, EGF and an anti-TNF α
 antibody; EREG, TGFA and FGF1; EREG, TGFA and FGF2; EREG, TGFA and FGF4; EREG,
 TGFA and FGF7; EREG, TGFA and FGF9; EREG, TGFA and FGF19; EREG, TGFA and SCF;
 EREG, TGFA and PDGFA; EREG, TGFA and PDGFB; EREG, TGFA and PDGFC; EREG,
 20 TGFA and VEGFA; EREG, TGFA and VEGFB; EREG, TGFA and VEGFC; EREG, TGFA and
 VEGFD; EREG, TGFA and TGFB1; EREG, TGFA and IL-10; EREG, TGFA and an anti-TNF α
 antibody; EREG, FGF1 and FGF2; EREG, FGF1 and FGF4; EREG, FGF1 and FGF7; EREG,
 FGF1 and FGF9; EREG, FGF1 and FGF19; EREG, FGF1 and SCF; EREG, FGF1 and PDGFA;
 EREG, FGF1 and PDGFB; EREG, FGF1 and PDGFC; EREG, FGF1 and VEGFA; EREG, FGF1
 25 and VEGFB; EREG, FGF1 and VEGFC; EREG, FGF1 and VEGFD; EREG, FGF1 and TGFB1;
 EREG, FGF1 and IL-10; EREG, FGF1 and an anti-TNF α antibody; EREG, FGF2 and FGF4;
 EREG, FGF2 and FGF7; EREG, FGF2 and FGF9; EREG, FGF2 and FGF19; EREG, FGF2 and
 SCF; EREG, FGF2 and PDGFA; EREG, FGF2 and PDGFB; EREG, FGF2 and PDGFC; EREG,
 FGF2 and VEGFA; EREG, FGF2 and VEGFB; EREG, FGF2 and VEGFC; EREG, FGF2 and
 30 VEGFD; EREG, FGF2 and TGFB1; EREG, FGF2 and IL-10; EREG, FGF2 and an anti-TNF α
 antibody; EREG, FGF4 and FGF7; EREG, FGF4 and FGF9; EREG, FGF4 and FGF19; EREG,

FGF4 and SCF; EREG, FGF4 and PDGFA; EREG, FGF4 and PDGFB; EREG, FGF4 and
 PDGFC; EREG, FGF4 and VEGFA; EREG, FGF4 and VEGFB; EREG, FGF4 and VEGFC;
 EREG, FGF4 and VEGFD; EREG, FGF4 and TGFB1; EREG, FGF4 and IL-10; EREG, FGF4
 and an anti-TNF α antibody; EREG, FGF7 and FGF9; EREG, FGF7 and FGF19; EREG, FGF7
 5 and SCF; EREG, FGF7 and PDGFA; EREG, FGF7 and PDGFB; EREG, FGF7 and PDGFC;
 EREG, FGF7 and VEGFA; EREG, FGF7 and VEGFB; EREG, FGF7 and VEGFC; EREG,
 FGF7 and VEGFD; EREG, FGF7 and TGFB1; EREG, FGF7 and IL-10; EREG, FGF7 and an
 anti-TNF α antibody; EREG, FGF9 and FGF19; EREG, FGF9 and SCF; EREG, FGF9 and
 PDGFA; EREG, FGF9 and PDGFB; EREG, FGF9 and PDGFC; EREG, FGF9 and VEGFA;
 10 EREG, FGF9 and VEGFB; EREG, FGF9 and VEGFC; EREG, FGF9 and VEGFD; EREG,
 FGF9 and TGFB1; EREG, FGF9 and IL-10; EREG, FGF9 and an anti-TNF α antibody; EREG,
 FGF19 and SCF; EREG, FGF19 and PDGFA; EREG, FGF19 and PDGFB; EREG, FGF19 and
 PDGFC; EREG, FGF19 and VEGFA; EREG, FGF19 and VEGFB; EREG, FGF19 and VEGFC;
 EREG, FGF19 and VEGFD; EREG, FGF19 and TGFB1; EREG, FGF19 and IL-10; EREG,
 15 FGF19 and an anti-TNF α antibody; EREG, SCF and PDGFA; EREG, SCF and PDGFB; EREG,
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 VEGFC; EREG, SCF and VEGFD; EREG, SCF and TGFB1; EREG, SCF and IL-10; EREG,
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 20 EREG, PDGFA and VEGFD; EREG, PDGFA and TGFB1; EREG, PDGFA and IL-10; EREG,
 PDGFA and an anti-TNF α antibody; EREG, PDGFB and PDGFC; EREG, PDGFB and VEGFA;
 EREG, PDGFB and VEGFB; EREG, PDGFB and VEGFC; EREG, PDGFB and VEGFD;
 EREG, PDGFB and TGFB1; EREG, PDGFB and IL-10; EREG, PDGFB and an anti-TNF α
 antibody; EREG, PDGFC and VEGFA; EREG, PDGFC and VEGFB; EREG, PDGFC and
 25 VEGFC; EREG, PDGFC and VEGFD; EREG, PDGFC and TGFB1; EREG, PDGFC and IL-10;
 EREG, PDGFC and an anti-TNF α antibody; EREG, VEGFA and VEGFB; EREG, VEGFA and
 VEGFC; EREG, VEGFA and VEGFD; EREG, VEGFA and TGFB1; EREG, VEGFA and IL-10;
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 VEGFD; EREG, VEGFB and TGFB1; EREG, VEGFB and IL-10; EREG, VEGFB and an anti-
 30 TNF α antibody; EREG, VEGFC and VEGFD; EREG, VEGFC and TGFB1; EREG, VEGFC and
 IL-10; EREG, VEGFC and an anti-TNF α antibody; EREG, VEGFD and TGFB1; EREG,

VEGFD and IL-10; EREG, VEGFD and an anti-TNF α antibody; EREG, TGFB1 and IL-10;
 EREG, TGFB1 and an anti-TNF α antibody; EREG, IL-10 and an anti-TNF α antibody; HBEGF,
 AREG and EREG; HBEGF, AREG and HGF; HBEGF, AREG and HRGB; HBEGF, AREG and
 BTC; HBEGF, AREG and EGF; HBEGF, AREG and TGFA; HBEGF, AREG and FGF1;
 5 HBEGF, AREG and FGF2; HBEGF, AREG and FGF4; HBEGF, AREG and FGF7; HBEGF,
 AREG and FGF9; HBEGF, AREG and FGF19; HBEGF, AREG and SCF; HBEGF, AREG and
 PDGFA; HBEGF, AREG and PDGFB; HBEGF, AREG and PDGFC; HBEGF, AREG and
 VEGFA; HBEGF, AREG and VEGFB; HBEGF, AREG and VEGFC; HBEGF, AREG and
 VEGFD; HBEGF, AREG and TGFB1; HBEGF, AREG and IL-10; HBEGF, AREG and an anti-
 10 TNF α antibody; HBEGF, EREG and HBEGF; HBEGF, EREG and HGF; HBEGF, EREG and
 HRGB; HBEGF, EREG and BTC; HBEGF, EREG and EGF; HBEGF, EREG and TGFA;
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 EREG and FGF7; HBEGF, EREG and FGF9; HBEGF, EREG and FGF19; HBEGF, EREG and
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 15 HBEGF, EREG and VEGFA; HBEGF, EREG and VEGFB; HBEGF, EREG and VEGFC;
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 EREG and an anti-TNF α antibody; HBEGF, HGF and HRGB; HBEGF, HGF and BTC;
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 and FGF2; HBEGF, HGF and FGF4; HBEGF, HGF and FGF7; HBEGF, HGF and FGF9;
 20 HBEGF, HGF and FGF19; HBEGF, HGF and SCF; HBEGF, HGF and PDGFA; HBEGF, HGF
 and PDGFB; HBEGF, HGF and PDGFC; HBEGF, HGF and VEGFA; HBEGF, HGF and
 VEGFB; HBEGF, HGF and VEGFC; HBEGF, HGF and VEGFD; HBEGF, HGF and TGFB1;
 HBEGF, HGF and IL-10; HBEGF, HGF and an anti-TNF α antibody; HBEGF, HRGB and BTC;
 HBEGF, HRGB and EGF; HBEGF, HRGB and TGFA; HBEGF, HRGB and FGF1; HBEGF,
 25 HRGB and FGF2; HBEGF, HRGB and FGF4; HBEGF, HRGB and FGF7; HBEGF, HRGB and
 FGF9; HBEGF, HRGB and FGF19; HBEGF, HRGB and SCF; HBEGF, HRGB and PDGFA;
 HBEGF, HRGB and PDGFB; HBEGF, HRGB and PDGFC; HBEGF, HRGB and VEGFA;
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 30 antibody; HBEGF, BTC and EGF; HBEGF, BTC and TGFA; HBEGF, BTC and FGF1; HBEGF,
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HBEGF, BTC and FGF19; HBEGF, BTC and SCF; HBEGF, BTC and PDGFA; HBEGF, BTC and PDGFB; HBEGF, BTC and PDGFC; HBEGF, BTC and VEGFA; HBEGF, BTC and VEGFB; HBEGF, BTC and VEGFC; HBEGF, BTC and VEGFD; HBEGF, BTC and TGFB1; HBEGF, BTC and IL-10; HBEGF, BTC and an anti-TNF α antibody; HBEGF, EGF and TGFA; HBEGF, EGF and FGF1; HBEGF, EGF and FGF2; HBEGF, EGF and FGF4; HBEGF, EGF and FGF7; HBEGF, EGF and FGF9; HBEGF, EGF and FGF19; HBEGF, EGF and SCF; HBEGF, EGF and PDGFA; HBEGF, EGF and PDGFB; HBEGF, EGF and PDGFC; HBEGF, EGF and VEGFA; HBEGF, EGF and VEGFB; HBEGF, EGF and VEGFC; HBEGF, EGF and VEGFD; HBEGF, EGF and TGFB1; HBEGF, EGF and IL-10; HBEGF, EGF and an anti-TNF α antibody; HBEGF, TGFA and FGF1; HBEGF, TGFA and FGF2; HBEGF, TGFA and FGF4; HBEGF, TGFA and FGF7; HBEGF, TGFA and FGF9; HBEGF, TGFA and FGF19; HBEGF, TGFA and SCF; HBEGF, TGFA and PDGFA; HBEGF, TGFA and PDGFB; HBEGF, TGFA and PDGFC; HBEGF, TGFA and VEGFA; HBEGF, TGFA and VEGFB; HBEGF, TGFA and VEGFC; HBEGF, TGFA and VEGFD; HBEGF, TGFA and TGFB1; HBEGF, TGFA and IL-10; HBEGF, TGFA and an anti-TNF α antibody; HBEGF, FGF1 and FGF2; HBEGF, FGF1 and FGF4; HBEGF, FGF1 and FGF7; HBEGF, FGF1 and FGF9; HBEGF, FGF1 and FGF19; HBEGF, FGF1 and SCF; HBEGF, FGF1 and PDGFA; HBEGF, FGF1 and PDGFB; HBEGF, FGF1 and PDGFC; HBEGF, FGF1 and VEGFA; HBEGF, FGF1 and VEGFB; HBEGF, FGF1 and VEGFC; HBEGF, FGF1 and VEGFD; HBEGF, FGF1 and TGFB1; HBEGF, FGF1 and IL-10; HBEGF, FGF1 and an anti-TNF α antibody; HBEGF, FGF2 and FGF4; HBEGF, FGF2 and FGF7; HBEGF, FGF2 and FGF9; HBEGF, FGF2 and FGF19; HBEGF, FGF2 and SCF; HBEGF, FGF2 and PDGFA; HBEGF, FGF2 and PDGFB; HBEGF, FGF2 and PDGFC; HBEGF, FGF2 and VEGFA; HBEGF, FGF2 and VEGFB; HBEGF, FGF2 and VEGFC; HBEGF, FGF2 and VEGFD; HBEGF, FGF2 and TGFB1; HBEGF, FGF2 and IL-10; HBEGF, FGF2 and an anti-TNF α antibody; HBEGF, FGF4 and FGF7; HBEGF, FGF4 and FGF9; HBEGF, FGF4 and FGF19; HBEGF, FGF4 and SCF; HBEGF, FGF4 and PDGFA; HBEGF, FGF4 and PDGFB; HBEGF, FGF4 and PDGFC; HBEGF, FGF4 and VEGFA; HBEGF, FGF4 and VEGFB; HBEGF, FGF4 and VEGFC; HBEGF, FGF4 and VEGFD; HBEGF, FGF4 and TGFB1; HBEGF, FGF4 and IL-10; HBEGF, FGF4 and an anti-TNF α antibody; HBEGF, FGF7 and FGF9; HBEGF, FGF7 and FGF19; HBEGF, FGF7 and SCF; HBEGF, FGF7 and PDGFA; HBEGF, FGF7 and PDGFB; HBEGF, FGF7 and PDGFC; HBEGF, FGF7 and VEGFA;

HBEGF, FGF7 and VEGFB; HBEGF, FGF7 and VEGFC; HBEGF, FGF7 and VEGFD;
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 5 HBEGF, FGF9 and VEGFB; HBEGF, FGF9 and VEGFC; HBEGF, FGF9 and VEGFD;
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 10 TGFB1; HBEGF, FGF19 and IL-10; HBEGF, FGF19 and an anti-TNF α antibody; HBEGF, SCF
 and PDGFA; HBEGF, SCF and PDGFB; HBEGF, SCF and PDGFC; HBEGF, SCF and
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 15 HBEGF, PDGFA and VEGFB; HBEGF, PDGFA and VEGFC; HBEGF, PDGFA and VEGFD;
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 20 PDGFC and VEGFA; HBEGF, PDGFC and VEGFB; HBEGF, PDGFC and VEGFC; HBEGF,
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 25 VEGFB and VEGFD; HBEGF, VEGFB and TGFB1; HBEGF, VEGFB and IL-10; HBEGF,
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 antibody; HBEGF, TGFB1 and IL-10; HBEGF, TGFB1 and an anti-TNF α antibody; HBEGF,
 30 IL-10 and an anti-TNF α antibody; HGF, AREG and EREG; HGF, AREG and HBEGF; HGF,
 AREG and HRGB; HGF, AREG and BTC; HGF, AREG and EGF; HGF, AREG and TGFA;

HGF, AREG and FGF1; HGF, AREG and FGF2; HGF, AREG and FGF4; HGF, AREG and
 FGF7; HGF, AREG and FGF9; HGF, AREG and FGF19; HGF, AREG and SCF; HGF, AREG
 and PDGFA; HGF, AREG and PDGFB; HGF, AREG and PDGFC; HGF, AREG and VEGFA;
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 5 and TGFB1; HGF, AREG and IL-10; HGF, AREG and an anti-TNF α antibody; HGF, EREG and
 HBEGF; HGF, EREG and HRGB; HGF, EREG and BTC; HGF, EREG and EGF; HGF, EREG
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 10 and VEGFA; HGF, EREG and VEGFB; HGF, EREG and VEGFC; HGF, EREG and VEGFD;
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 an anti-TNF α antibody; HGF, HRGB and BTC; HGF, HRGB and EGF; HGF, HRGB and
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 20 and FGF7; HGF, HRGB and FGF9; HGF, HRGB and FGF19; HGF, HRGB and SCF; HGF,
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 HGF, HRGB and TGFB1; HGF, HRGB and IL-10; HGF, HRGB and an anti-TNF α antibody;
 HGF, BTC and EGF; HGF, BTC and TGFA; HGF, BTC and FGF1; HGF, BTC and FGF2;
 25 HGF, BTC and FGF4; HGF, BTC and FGF7; HGF, BTC and FGF9; HGF, BTC and FGF19;
 HGF, BTC and SCF; HGF, BTC and PDGFA; HGF, BTC and PDGFB; HGF, BTC and PDGFC;
 HGF, BTC and VEGFA; HGF, BTC and VEGFB; HGF, BTC and VEGFC; HGF, BTC and
 VEGFD; HGF, BTC and TGFB1; HGF, BTC and IL-10; HGF, BTC and an anti-TNF α antibody;
 HGF, EGF and TGFA; HGF, EGF and FGF1; HGF, EGF and FGF2; HGF, EGF and FGF4;
 30 HGF, EGF and FGF7; HGF, EGF and FGF9; HGF, EGF and FGF19; HGF, EGF and SCF; HGF,
 EGF and PDGFA; HGF, EGF and PDGFB; HGF, EGF and PDGFC; HGF, EGF and VEGFA;

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 5 and PDGFB; HGF, TGFA and PDGFC; HGF, TGFA and VEGFA; HGF, TGFA and VEGFB;
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 and IL-10; HGF, TGFA and an anti-TNF α antibody; HGF, FGF1 and FGF2; HGF, FGF1 and
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 10 and VEGFA; HGF, FGF1 and VEGFB; HGF, FGF1 and VEGFC; HGF, FGF1 and VEGFD;
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 HGF, FGF2 and VEGFA; HGF, FGF2 and VEGFB; HGF, FGF2 and VEGFC; HGF, FGF2 and
 15 VEGFD; HGF, FGF2 and TGF β 1; HGF, FGF2 and IL-10; HGF, FGF2 and an anti-TNF α
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 20 antibody; HGF, FGF7 and FGF9; HGF, FGF7 and FGF19; HGF, FGF7 and SCF; HGF, FGF7
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 25 and PDGFC; HGF, FGF9 and VEGFA; HGF, FGF9 and VEGFB; HGF, FGF9 and VEGFC;
 HGF, FGF9 and VEGFD; HGF, FGF9 and TGF β 1; HGF, FGF9 and IL-10; HGF, FGF9 and an
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 30 and IL-10; HGF, FGF19 and an anti-TNF α antibody; HGF, SCF and PDGFA; HGF, SCF and
 PDGFB; HGF, SCF and PDGFC; HGF, SCF and VEGFA; HGF, SCF and VEGFB; HGF, SCF

and VEGFC; HGF, SCF and VEGFD; HGF, SCF and TGFB1; HGF, SCF and IL-10; HGF, SCF and an anti-TNF α antibody; HGF, PDGFA and PDGFB; HGF, PDGFA and PDGFC; HGF, PDGFA and VEGFA; HGF, PDGFA and VEGFB; HGF, PDGFA and VEGFC; HGF, PDGFA and VEGFD; HGF, PDGFA and TGFB1; HGF, PDGFA and IL-10; HGF, PDGFA and an anti-TNF α antibody; HGF, PDGFB and PDGFC; HGF, PDGFB and VEGFA; HGF, PDGFB and VEGFB; HGF, PDGFB and VEGFC; HGF, PDGFB and VEGFD; HGF, PDGFB and TGFB1; HGF, PDGFB and IL-10; HGF, PDGFB and an anti-TNF α antibody; HGF, PDGFC and VEGFA; HGF, PDGFC and VEGFB; HGF, PDGFC and VEGFC; HGF, PDGFC and VEGFD; HGF, PDGFC and TGFB1; HGF, PDGFC and IL-10; HGF, PDGFC and an anti-TNF α antibody; HGF, VEGFA and VEGFB; HGF, VEGFA and VEGFC; HGF, VEGFA and VEGFD; HGF, VEGFA and TGFB1; HGF, VEGFA and IL-10; HGF, VEGFA and an anti-TNF α antibody; HGF, VEGFB and VEGFC; HGF, VEGFB and VEGFD; HGF, VEGFB and TGFB1; HGF, VEGFB and IL-10; HGF, VEGFB and an anti-TNF α antibody; HGF, VEGFC and VEGFD; HGF, VEGFC and TGFB1; HGF, VEGFC and IL-10; HGF, VEGFC and an anti-TNF α antibody; HGF, VEGFD and TGFB1; HGF, VEGFD and IL-10; HGF, VEGFD and an anti-TNF α antibody; HGF, TGFB1 and IL-10; HGF, TGFB1 and an anti-TNF α antibody; HGF, IL-10 and an anti-TNF α antibody; HRGB, AREG and EREG; HRGB, AREG and HBEGF; HRGB, AREG and HGF; HRGB, AREG and BTC; HRGB, AREG and EGF; HRGB, AREG and TGFA; HRGB, AREG and FGF1; HRGB, AREG and FGF2; HRGB, AREG and FGF4; HRGB, AREG and FGF7; HRGB, AREG and FGF9; HRGB, AREG and FGF19; HRGB, AREG and SCF; HRGB, AREG and PDGFA; HRGB, AREG and PDGFB; HRGB, AREG and PDGFC; HRGB, AREG and VEGFA; HRGB, AREG and VEGFB; HRGB, AREG and VEGFC; HRGB, AREG and VEGFD; HRGB, AREG and TGFB1; HRGB, AREG and IL-10; HRGB, AREG and an anti-TNF α antibody; HRGB, EREG and HBEGF; HRGB, EREG and HGF; HRGB, EREG and BTC; HRGB, EREG and EGF; HRGB, EREG and TGFA; HRGB, EREG and FGF1; HRGB, EREG and FGF2; HRGB, EREG and FGF4; HRGB, EREG and FGF7; HRGB, EREG and FGF9; HRGB, EREG and FGF19; HRGB, EREG and SCF; HRGB, EREG and PDGFA; HRGB, EREG and PDGFB; HRGB, EREG and PDGFC; HRGB, EREG and VEGFA; HRGB, EREG and VEGFB; HRGB, EREG and VEGFC; HRGB, EREG and VEGFD; HRGB, EREG and TGFB1; HRGB, EREG and IL-10; HRGB, EREG and an anti-TNF α antibody; HRGB, HBEGF and HGF; HRGB, HBEGF and BTC; HRGB, HBEGF and EGF; HRGB, HBEGF and TGFA; HRGB,

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 and VEGFD; BTC, HGF and TGFB1; BTC, HGF and IL-10; BTC, HGF and an anti-TNF α
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 15 BTC, TGFA and PDGFA; BTC, TGFA and PDGFB; BTC, TGFA and PDGFC; BTC, TGFA
 and VEGFA; BTC, TGFA and VEGFB; BTC, TGFA and VEGFC; BTC, TGFA and VEGFD;
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 25 VEGFB; BTC, FGF2 and VEGFC; BTC, FGF2 and VEGFD; BTC, FGF2 and TGFB1; BTC,
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 FGF4; EGF, TGFA and FGF7; EGF, TGFA and FGF9; EGF, TGFA and FGF19; EGF, TGFA

and SCF; EGF, TGFA and PDGFA; EGF, TGFA and PDGFB; EGF, TGFA and PDGFC; EGF, TGFA and VEGFA; EGF, TGFA and VEGFB; EGF, TGFA and VEGFC; EGF, TGFA and VEGFD; EGF, TGFA and TGFB1; EGF, TGFA and IL-10; EGF, TGFA and an anti-TNF α antibody; EGF, FGF1 and FGF2; EGF, FGF1 and FGF4; EGF, FGF1 and FGF7; EGF, FGF1 and FGF9; EGF, FGF1 and FGF19; EGF, FGF1 and SCF; EGF, FGF1 and PDGFA; EGF, FGF1 and PDGFB; EGF, FGF1 and PDGFC; EGF, FGF1 and VEGFA; EGF, FGF1 and VEGFB; EGF, FGF1 and VEGFC; EGF, FGF1 and VEGFD; EGF, FGF1 and TGFB1; EGF, FGF1 and IL-10; EGF, FGF1 and an anti-TNF α antibody; EGF, FGF2 and FGF4; EGF, FGF2 and FGF7; EGF, FGF2 and FGF9; EGF, FGF2 and FGF19; EGF, FGF2 and SCF; EGF, FGF2 and PDGFA; EGF, FGF2 and PDGFB; EGF, FGF2 and PDGFC; EGF, FGF2 and VEGFA; EGF, FGF2 and VEGFB; EGF, FGF2 and VEGFC; EGF, FGF2 and VEGFD; EGF, FGF2 and TGFB1; EGF, FGF2 and IL-10; EGF, FGF2 and an anti-TNF α antibody; EGF, FGF4 and FGF7; EGF, FGF4 and FGF9; EGF, FGF4 and FGF19; EGF, FGF4 and SCF; EGF, FGF4 and PDGFA; EGF, FGF4 and PDGFB; EGF, FGF4 and PDGFC; EGF, FGF4 and VEGFA; EGF, FGF4 and VEGFB; EGF, FGF4 and VEGFC; EGF, FGF4 and VEGFD; EGF, FGF4 and TGFB1; EGF, FGF4 and IL-10; EGF, FGF4 and an anti-TNF α antibody; EGF, FGF7 and FGF9; EGF, FGF7 and FGF19; EGF, FGF7 and SCF; EGF, FGF7 and PDGFA; EGF, FGF7 and PDGFB; EGF, FGF7 and PDGFC; EGF, FGF7 and VEGFA; EGF, FGF7 and VEGFB; EGF, FGF7 and VEGFC; EGF, FGF7 and VEGFD; EGF, FGF7 and TGFB1; EGF, FGF7 and IL-10; EGF, FGF7 and an anti-TNF α antibody; EGF, FGF9 and FGF19; EGF, FGF9 and SCF; EGF, FGF9 and PDGFA; EGF, FGF9 and PDGFB; EGF, FGF9 and PDGFC; EGF, FGF9 and VEGFA; EGF, FGF9 and VEGFB; EGF, FGF9 and VEGFC; EGF, FGF9 and VEGFD; EGF, FGF9 and TGFB1; EGF, FGF9 and IL-10; EGF, FGF9 and an anti-TNF α antibody; EGF, FGF19 and SCF; EGF, FGF19 and PDGFA; EGF, FGF19 and PDGFB; EGF, FGF19 and PDGFC; EGF, FGF19 and VEGFA; EGF, FGF19 and VEGFB; EGF, FGF19 and VEGFC; EGF, FGF19 and VEGFD; EGF, FGF19 and TGFB1; EGF, FGF19 and IL-10; EGF, FGF19 and an anti-TNF α antibody; EGF, SCF and PDGFA; EGF, SCF and PDGFB; EGF, SCF and PDGFC; EGF, SCF and VEGFA; EGF, SCF and VEGFB; EGF, SCF and VEGFC; EGF, SCF and VEGFD; EGF, SCF and TGFB1; EGF, SCF and IL-10; EGF, SCF and an anti-TNF α antibody; EGF, PDGFA and PDGFB; EGF, PDGFA and PDGFC; EGF, PDGFA and VEGFA; EGF, PDGFA and VEGFB; EGF, PDGFA and VEGFC; EGF, PDGFA and VEGFD; EGF, PDGFA and TGFB1; EGF, PDGFA and IL-10;

EGF, PDGFA and an anti-TNF α antibody; EGF, PDGFB and PDGFC; EGF, PDGFB and VEGFA; EGF, PDGFB and VEGFB; EGF, PDGFB and VEGFC; EGF, PDGFB and VEGFD; EGF, PDGFB and TGFB1; EGF, PDGFB and IL-10; EGF, PDGFB and an anti-TNF α antibody; EGF, PDGFC and VEGFA; EGF, PDGFC and VEGFB; EGF, PDGFC and VEGFC; EGF, PDGFC and VEGFD; EGF, PDGFC and TGFB1; EGF, PDGFC and IL-10; EGF, PDGFC and an anti-TNF α antibody; EGF, VEGFA and VEGFB; EGF, VEGFA and VEGFC; EGF, VEGFA and VEGFD; EGF, VEGFA and TGFB1; EGF, VEGFA and IL-10; EGF, VEGFA and an anti-TNF α antibody; EGF, VEGFB and VEGFC; EGF, VEGFB and VEGFD; EGF, VEGFB and TGFB1; EGF, VEGFB and IL-10; EGF, VEGFB and an anti-TNF α antibody; EGF, VEGFC and VEGFD; EGF, VEGFC and TGFB1; EGF, VEGFC and IL-10; EGF, VEGFC and an anti-TNF α antibody; EGF, VEGFD and TGFB1; EGF, VEGFD and IL-10; EGF, VEGFD and an anti-TNF α antibody; EGF, TGFB1 and IL-10; EGF, TGFB1 and an anti-TNF α antibody; EGF, IL-10 and an anti-TNF α antibody; TGFA, AREG and EREG; TGFA, AREG and HBEGF; TGFA, AREG and HGF; TGFA, AREG and HRGB; TGFA, AREG and BTC; TGFA, AREG and EGF; TGFA, AREG and FGF1; TGFA, AREG and FGF2; TGFA, AREG and FGF4; TGFA, AREG and FGF7; TGFA, AREG and FGF9; TGFA, AREG and FGF19; TGFA, AREG and SCF; TGFA, AREG and PDGFA; TGFA, AREG and PDGFB; TGFA, AREG and PDGFC; TGFA, AREG and VEGFA; TGFA, AREG and VEGFB; TGFA, AREG and VEGFC; TGFA, AREG and VEGFD; TGFA, AREG and TGFB1; TGFA, AREG and IL-10; TGFA, AREG and an anti-TNF α antibody; TGFA, EREG and HBEGF; TGFA, EREG and HGF; TGFA, EREG and HRGB; TGFA, EREG and BTC; TGFA, EREG and EGF; TGFA, EREG and FGF1; TGFA, EREG and FGF2; TGFA, EREG and FGF4; TGFA, EREG and FGF7; TGFA, EREG and FGF9; TGFA, EREG and FGF19; TGFA, EREG and SCF; TGFA, EREG and PDGFA; TGFA, EREG and PDGFB; TGFA, EREG and PDGFC; TGFA, EREG and VEGFA; TGFA, EREG and VEGFB; TGFA, EREG and VEGFC; TGFA, EREG and VEGFD; TGFA, EREG and TGFB1; TGFA, EREG and IL-10; TGFA, EREG and an anti-TNF α antibody; TGFA, HBEGF and HGF; TGFA, HBEGF and HRGB; TGFA, HBEGF and BTC; TGFA, HBEGF and EGF; TGFA, HBEGF and FGF1; TGFA, HBEGF and FGF2; TGFA, HBEGF and FGF4; TGFA, HBEGF and FGF7; TGFA, HBEGF and FGF9; TGFA, HBEGF and FGF19; TGFA, HBEGF and SCF; TGFA, HBEGF and PDGFA; TGFA, HBEGF and PDGFB; TGFA, HBEGF and PDGFC; TGFA, HBEGF and VEGFA; TGFA, HBEGF and VEGFB; TGFA, HBEGF and VEGFC;

TGFA, HBEGF and VEGFD; TGFA, HBEGF and TGFB1; TGFA, HBEGF and IL-10; TGFA,
 HBEGF and an anti-TNF α antibody; TGFA, HGF and HRGB; TGFA, HGF and BTC; TGFA,
 HGF and EGF; TGFA, HGF and FGF1; TGFA, HGF and FGF2; TGFA, HGF and FGF4; TGFA,
 HGF and FGF7; TGFA, HGF and FGF9; TGFA, HGF and FGF19; TGFA, HGF and SCF;
 5 TGFA, HGF and PDGFA; TGFA, HGF and PDGFB; TGFA, HGF and PDGFC; TGFA, HGF
 and VEGFA; TGFA, HGF and VEGFB; TGFA, HGF and VEGFC; TGFA, HGF and VEGFD;
 TGFA, HGF and TGFB1; TGFA, HGF and IL-10; TGFA, HGF and an anti-TNF α antibody;
 TGFA, HRGB and BTC; TGFA, HRGB and EGF; TGFA, HRGB and FGF1; TGFA, HRGB
 and FGF2; TGFA, HRGB and FGF4; TGFA, HRGB and FGF7; TGFA, HRGB and FGF9;
 10 TGFA, HRGB and FGF19; TGFA, HRGB and SCF; TGFA, HRGB and PDGFA; TGFA, HRGB
 and PDGFB; TGFA, HRGB and PDGFC; TGFA, HRGB and VEGFA; TGFA, HRGB and
 VEGFB; TGFA, HRGB and VEGFC; TGFA, HRGB and VEGFD; TGFA, HRGB and TGFB1;
 TGFA, HRGB and IL-10; TGFA, HRGB and an anti-TNF α antibody; TGFA, BTC and EGF;
 TGFA, BTC and FGF1; TGFA, BTC and FGF2; TGFA, BTC and FGF4; TGFA, BTC and
 15 FGF7; TGFA, BTC and FGF9; TGFA, BTC and FGF19; TGFA, BTC and SCF; TGFA, BTC
 and PDGFA; TGFA, BTC and PDGFB; TGFA, BTC and PDGFC; TGFA, BTC and VEGFA;
 TGFA, BTC and VEGFB; TGFA, BTC and VEGFC; TGFA, BTC and VEGFD; TGFA, BTC
 and TGFB1; TGFA, BTC and IL-10; TGFA, BTC and an anti-TNF α antibody; TGFA, EGF and
 FGF1; TGFA, EGF and FGF2; TGFA, EGF and FGF4; TGFA, EGF and FGF7; TGFA, EGF and
 20 FGF9; TGFA, EGF and FGF19; TGFA, EGF and SCF; TGFA, EGF and PDGFA; TGFA, EGF
 and PDGFB; TGFA, EGF and PDGFC; TGFA, EGF and VEGFA; TGFA, EGF and VEGFB;
 TGFA, EGF and VEGFC; TGFA, EGF and VEGFD; TGFA, EGF and TGFB1; TGFA, EGF and
 IL-10; TGFA, EGF and an anti-TNF α antibody; TGFA, FGF1 and FGF2; TGFA, FGF1 and
 FGF4; TGFA, FGF1 and FGF7; TGFA, FGF1 and FGF9; TGFA, FGF1 and FGF19; TGFA,
 25 FGF1 and SCF; TGFA, FGF1 and PDGFA; TGFA, FGF1 and PDGFB; TGFA, FGF1 and
 PDGFC; TGFA, FGF1 and VEGFA; TGFA, FGF1 and VEGFB; TGFA, FGF1 and VEGFC;
 TGFA, FGF1 and VEGFD; TGFA, FGF1 and TGFB1; TGFA, FGF1 and IL-10; TGFA, FGF1
 and an anti-TNF α antibody; TGFA, FGF2 and FGF4; TGFA, FGF2 and FGF7; TGFA, FGF2
 and FGF9; TGFA, FGF2 and FGF19; TGFA, FGF2 and SCF; TGFA, FGF2 and PDGFA;
 30 TGFA, FGF2 and PDGFB; TGFA, FGF2 and PDGFC; TGFA, FGF2 and VEGFA; TGFA, FGF2
 and VEGFB; TGFA, FGF2 and VEGFC; TGFA, FGF2 and VEGFD; TGFA, FGF2 and TGFB1;

TGFA, FGF2 and IL-10; TGFA, FGF2 and an anti-TNF α antibody; TGFA, FGF4 and FGF7;
 TGFA, FGF4 and FGF9; TGFA, FGF4 and FGF19; TGFA, FGF4 and SCF; TGFA, FGF4 and
 PDGFA; TGFA, FGF4 and PDGFB; TGFA, FGF4 and PDGFC; TGFA, FGF4 and VEGFA;
 TGFA, FGF4 and VEGFB; TGFA, FGF4 and VEGFC; TGFA, FGF4 and VEGFD; TGFA,
 5 FGF4 and TGFB1; TGFA, FGF4 and IL-10; TGFA, FGF4 and an anti-TNF α antibody; TGFA,
 FGF7 and FGF9; TGFA, FGF7 and FGF19; TGFA, FGF7 and SCF; TGFA, FGF7 and PDGFA;
 TGFA, FGF7 and PDGFB; TGFA, FGF7 and PDGFC; TGFA, FGF7 and VEGFA; TGFA, FGF7
 and VEGFB; TGFA, FGF7 and VEGFC; TGFA, FGF7 and VEGFD; TGFA, FGF7 and TGFB1;
 TGFA, FGF7 and IL-10; TGFA, FGF7 and an anti-TNF α antibody; TGFA, FGF9 and FGF19;
 10 TGFA, FGF9 and SCF; TGFA, FGF9 and PDGFA; TGFA, FGF9 and PDGFB; TGFA, FGF9
 and PDGFC; TGFA, FGF9 and VEGFA; TGFA, FGF9 and VEGFB; TGFA, FGF9 and VEGFC;
 TGFA, FGF9 and VEGFD; TGFA, FGF9 and TGFB1; TGFA, FGF9 and IL-10; TGFA, FGF9
 and an anti-TNF α antibody; TGFA, FGF19 and SCF; TGFA, FGF19 and PDGFA; TGFA,
 FGF19 and PDGFB; TGFA, FGF19 and PDGFC; TGFA, FGF19 and VEGFA; TGFA, FGF19
 15 and VEGFB; TGFA, FGF19 and VEGFC; TGFA, FGF19 and VEGFD; TGFA, FGF19 and
 TGFB1; TGFA, FGF19 and IL-10; TGFA, FGF19 and an anti-TNF α antibody; TGFA, SCF and
 PDGFA; TGFA, SCF and PDGFB; TGFA, SCF and PDGFC; TGFA, SCF and VEGFA; TGFA,
 SCF and VEGFB; TGFA, SCF and VEGFC; TGFA, SCF and VEGFD; TGFA, SCF and
 TGFB1; TGFA, SCF and IL-10; TGFA, SCF and an anti-TNF α antibody; TGFA, PDGFA and
 20 PDGFB; TGFA, PDGFA and PDGFC; TGFA, PDGFA and VEGFA; TGFA, PDGFA and
 VEGFB; TGFA, PDGFA and VEGFC; TGFA, PDGFA and VEGFD; TGFA, PDGFA and
 TGFB1; TGFA, PDGFA and IL-10; TGFA, PDGFA and an anti-TNF α antibody; TGFA,
 PDGFB and PDGFC; TGFA, PDGFB and VEGFA; TGFA, PDGFB and VEGFB; TGFA,
 PDGFB and VEGFC; TGFA, PDGFB and VEGFD; TGFA, PDGFB and TGFB1; TGFA,
 25 PDGFB and IL-10; TGFA, PDGFB and an anti-TNF α antibody; TGFA, PDGFC and VEGFA;
 TGFA, PDGFC and VEGFB; TGFA, PDGFC and VEGFC; TGFA, PDGFC and VEGFD;
 TGFA, PDGFC and TGFB1; TGFA, PDGFC and IL-10; TGFA, PDGFC and an anti-TNF α
 antibody; TGFA, VEGFA and VEGFB; TGFA, VEGFA and VEGFC; TGFA, VEGFA and
 VEGFD; TGFA, VEGFA and TGFB1; TGFA, VEGFA and IL-10; TGFA, VEGFA and an anti-
 30 TNF α antibody; TGFA, VEGFB and VEGFC; TGFA, VEGFB and VEGFD; TGFA, VEGFB
 and TGFB1; TGFA, VEGFB and IL-10; TGFA, VEGFB and an anti-TNF α antibody; TGFA,

VEGFC and VEGFD; TGFA, VEGFC and TGFB1; TGFA, VEGFC and IL-10; TGFA, VEGFC
 and an anti-TNF α antibody; TGFA, VEGFD and TGFB1; TGFA, VEGFD and IL-10; TGFA,
 VEGFD and an anti-TNF α antibody; TGFA, TGFB1 and IL-10; TGFA, TGFB1 and an anti-
 TNF α antibody; TGFA, IL-10 and an anti-TNF α antibody; FGF1, AREG and EREG; FGF1,
 5 AREG and HBEGF; FGF1, AREG and HGF; FGF1, AREG and HRGB; FGF1, AREG and
 BTC; FGF1, AREG and EGF; FGF1, AREG and TGFA; FGF1, AREG and FGF1; FGF1, AREG
 and FGF2; FGF1, AREG and FGF4; FGF1, AREG and FGF7; FGF1, AREG and FGF9; FGF1,
 AREG and FGF19; FGF1, AREG and SCF; FGF1, AREG and PDGFA; FGF1, AREG and
 PDGFB; FGF1, AREG and PDGFC; FGF1, AREG and VEGFA; FGF1, AREG and VEGFB;
 10 FGF1, AREG and VEGFC; FGF1, AREG and VEGFD; FGF1, AREG and TGFB1; FGF1,
 AREG and IL-10; FGF1, AREG and an anti-TNF α antibody; FGF1, EREG and HBEGF; FGF1,
 EREG and HGF; FGF1, EREG and HRGB; FGF1, EREG and BTC; FGF1, EREG and EGF;
 FGF1, EREG and TGFA; FGF1, EREG and FGF1; FGF1, EREG and FGF2; FGF1, EREG and
 FGF4; FGF1, EREG and FGF7; FGF1, EREG and FGF9; FGF1, EREG and FGF19; FGF1,
 15 EREG and SCF; FGF1, EREG and PDGFA; FGF1, EREG and PDGFB; FGF1, EREG and
 PDGFC; FGF1, EREG and VEGFA; FGF1, EREG and VEGFB; FGF1, EREG and VEGFC;
 FGF1, EREG and VEGFD; FGF1, EREG and TGFB1; FGF1, EREG and IL-10; FGF1, EREG
 and an anti-TNF α antibody; FGF1, HBEGF and HGF; FGF1, HBEGF and HRGB; FGF1,
 HBEGF and BTC; FGF1, HBEGF and EGF; FGF1, HBEGF and TGFA; FGF1, HBEGF and
 20 FGF1; FGF1, HBEGF and FGF2; FGF1, HBEGF and FGF4; FGF1, HBEGF and FGF7; FGF1,
 HBEGF and FGF9; FGF1, HBEGF and FGF19; FGF1, HBEGF and SCF; FGF1, HBEGF and
 PDGFA; FGF1, HBEGF and PDGFB; FGF1, HBEGF and PDGFC; FGF1, HBEGF and
 VEGFA; FGF1, HBEGF and VEGFB; FGF1, HBEGF and VEGFC; FGF1, HBEGF and
 VEGFD; FGF1, HBEGF and TGFB1; FGF1, HBEGF and IL-10; FGF1, HBEGF and an anti-
 25 TNF α antibody; FGF1, HGF and HRGB; FGF1, HGF and BTC; FGF1, HGF and EGF; FGF1,
 HGF and TGFA; FGF1, HGF and FGF2; FGF1, HGF and FGF4; FGF1, HGF and FGF7; FGF1,
 HGF and FGF9; FGF1, HGF and FGF19; FGF1, HGF and SCF; FGF1, HGF and PDGFA;
 FGF1, HGF and PDGFB; FGF1, HGF and PDGFC; FGF1, HGF and VEGFA; FGF1, HGF and
 VEGFB; FGF1, HGF and VEGFC; FGF1, HGF and VEGFD; FGF1, HGF and TGFB1; FGF1,
 30 HGF and IL-10; FGF1, HGF and an anti-TNF α antibody; FGF1, HRGB and BTC; FGF1,
 HRGB and EGF; FGF1, HRGB and TGFA; FGF1, HRGB and FGF2; FGF1, HRGB and FGF4;

FGF1, HRGB and FGF7; FGF1, HRGB and FGF9; FGF1, HRGB and FGF19; FGF1, HRGB
 and SCF; FGF1, HRGB and PDGFA; FGF1, HRGB and PDGFB; FGF1, HRGB and PDGFC;
 FGF1, HRGB and VEGFA; FGF1, HRGB and VEGFB; FGF1, HRGB and VEGFC; FGF1,
 HRGB and VEGFD; FGF1, HRGB and TGFB1; FGF1, HRGB and IL-10; FGF1, HRGB and an
 5 anti-TNF α antibody; FGF1, BTC and EGF; FGF1, BTC and TGFA; FGF1, BTC and FGF2;
 FGF1, BTC and FGF4; FGF1, BTC and FGF7; FGF1, BTC and FGF9; FGF1, BTC and FGF19;
 FGF1, BTC and SCF; FGF1, BTC and PDGFA; FGF1, BTC and PDGFB; FGF1, BTC and
 PDGFC; FGF1, BTC and VEGFA; FGF1, BTC and VEGFB; FGF1, BTC and VEGFC; FGF1,
 BTC and VEGFD; FGF1, BTC and TGFB1; FGF1, BTC and IL-10; FGF1, BTC and an anti-
 10 TNF α antibody; FGF1, EGF and TGFA; FGF1, EGF and FGF2; FGF1, EGF and FGF4; FGF1,
 EGF and FGF7; FGF1, EGF and FGF9; FGF1, EGF and FGF19; FGF1, EGF and SCF; FGF1,
 EGF and PDGFA; FGF1, EGF and PDGFB; FGF1, EGF and PDGFC; FGF1, EGF and VEGFA;
 FGF1, EGF and VEGFB; FGF1, EGF and VEGFC; FGF1, EGF and VEGFD; FGF1, EGF and
 TGFB1; FGF1, EGF and IL-10; FGF1, EGF and an anti-TNF α antibody; FGF1, TGFA and
 15 FGF2; FGF1, TGFA and FGF4; FGF1, TGFA and FGF7; FGF1, TGFA and FGF9; FGF1,
 TGFA and FGF19; FGF1, TGFA and SCF; FGF1, TGFA and PDGFA; FGF1, TGFA and
 PDGFB; FGF1, TGFA and PDGFC; FGF1, TGFA and VEGFA; FGF1, TGFA and VEGFB;
 FGF1, TGFA and VEGFC; FGF1, TGFA and VEGFD; FGF1, TGFA and TGFB1; FGF1, TGFA
 and IL-10; FGF1, TGFA and an anti-TNF α antibody; FGF1, FGF2 and FGF4; FGF1, FGF2 and
 20 FGF7; FGF1, FGF2 and FGF9; FGF1, FGF2 and FGF19; FGF1, FGF2 and SCF; FGF1, FGF2
 and PDGFA; FGF1, FGF2 and PDGFB; FGF1, FGF2 and PDGFC; FGF1, FGF2 and VEGFA;
 FGF1, FGF2 and VEGFB; FGF1, FGF2 and VEGFC; FGF1, FGF2 and VEGFD; FGF1, FGF2
 and TGFB1; FGF1, FGF2 and IL-10; FGF1, FGF2 and an anti-TNF α antibody; FGF1, FGF4 and
 FGF7; FGF1, FGF4 and FGF9; FGF1, FGF4 and FGF19; FGF1, FGF4 and SCF; FGF1, FGF4
 25 and PDGFA; FGF1, FGF4 and PDGFB; FGF1, FGF4 and PDGFC; FGF1, FGF4 and VEGFA;
 FGF1, FGF4 and VEGFB; FGF1, FGF4 and VEGFC; FGF1, FGF4 and VEGFD; FGF1, FGF4
 and TGFB1; FGF1, FGF4 and IL-10; FGF1, FGF4 and an anti-TNF α antibody; FGF1, FGF7 and
 FGF9; FGF1, FGF7 and FGF19; FGF1, FGF7 and SCF; FGF1, FGF7 and PDGFA; FGF1, FGF7
 and PDGFB; FGF1, FGF7 and PDGFC; FGF1, FGF7 and VEGFA; FGF1, FGF7 and VEGFB;
 30 FGF1, FGF7 and VEGFC; FGF1, FGF7 and VEGFD; FGF1, FGF7 and TGFB1; FGF1, FGF7
 and IL-10; FGF1, FGF7 and an anti-TNF α antibody; FGF1, FGF9 and FGF19; FGF1, FGF9 and

SCF; FGF1, FGF9 and PDGFA; FGF1, FGF9 and PDGFB; FGF1, FGF9 and PDGFC; FGF1, FGF9 and VEGFA; FGF1, FGF9 and VEGFB; FGF1, FGF9 and VEGFC; FGF1, FGF9 and VEGFD; FGF1, FGF9 and TGFB1; FGF1, FGF9 and IL-10; FGF1, FGF9 and an anti-TNF α antibody; FGF1, FGF19 and SCF; FGF1, FGF19 and PDGFA; FGF1, FGF19 and PDGFB; 5 FGF1, FGF19 and PDGFC; FGF1, FGF19 and VEGFA; FGF1, FGF19 and VEGFB; FGF1, FGF19 and VEGFC; FGF1, FGF19 and VEGFD; FGF1, FGF19 and TGFB1; FGF1, FGF19 and IL-10; FGF1, FGF19 and an anti-TNF α antibody; FGF1, SCF and PDGFA; FGF1, SCF and PDGFB; FGF1, SCF and PDGFC; FGF1, SCF and VEGFA; FGF1, SCF and VEGFB; FGF1, SCF and VEGFC; FGF1, SCF and VEGFD; FGF1, SCF and TGFB1; FGF1, SCF and IL-10; 10 FGF1, SCF and an anti-TNF α antibody; FGF1, PDGFA and PDGFB; FGF1, PDGFA and PDGFC; FGF1, PDGFA and VEGFA; FGF1, PDGFA and VEGFB; FGF1, PDGFA and VEGFC; FGF1, PDGFA and VEGFD; FGF1, PDGFA and TGFB1; FGF1, PDGFA and IL-10; FGF1, PDGFA and an anti-TNF α antibody; FGF1, PDGFB and PDGFC; FGF1, PDGFB and VEGFA; FGF1, PDGFB and VEGFB; FGF1, PDGFB and VEGFC; FGF1, PDGFB and 15 VEGFD; FGF1, PDGFB and TGFB1; FGF1, PDGFB and IL-10; FGF1, PDGFB and an anti-TNF α antibody; FGF1, PDGFC and VEGFA; FGF1, PDGFC and VEGFB; FGF1, PDGFC and VEGFC; FGF1, PDGFC and VEGFD; FGF1, PDGFC and TGFB1; FGF1, PDGFC and IL-10; FGF1, PDGFC and an anti-TNF α antibody; FGF1, VEGFA and VEGFB; FGF1, VEGFA and VEGFC; FGF1, VEGFA and VEGFD; FGF1, VEGFA and TGFB1; FGF1, VEGFA and IL-10; 20 FGF1, VEGFA and an anti-TNF α antibody; FGF1, VEGFB and VEGFC; FGF1, VEGFB and VEGFD; FGF1, VEGFB and TGFB1; FGF1, VEGFB and IL-10; FGF1, VEGFB and an anti-TNF α antibody; FGF1, VEGFC and VEGFD; FGF1, VEGFC and TGFB1; FGF1, VEGFC and IL-10; FGF1, VEGFC and an anti-TNF α antibody; FGF1, VEGFD and TGFB1; FGF1, VEGFD and IL-10; FGF1, VEGFD and an anti-TNF α antibody; FGF1, TGFB1 and IL-10; FGF1, TGFB1 and an anti-TNF α antibody; FGF1, IL-10 and an anti-TNF α antibody; FGF2, AREG and EREG; FGF2, AREG and HBEGF; FGF2, AREG and HGF; FGF2, AREG and HRGB; FGF2, AREG and BTC; FGF2, AREG and EGF; FGF2, AREG and TGFA; FGF2, AREG and FGF1; FGF2, AREG and FGF4; FGF2, AREG and FGF7; FGF2, AREG and FGF9; FGF2, AREG and FGF19; FGF2, AREG and SCF; FGF2, AREG and PDGFA; FGF2, AREG and PDGFB; FGF2, AREG and PDGFC; FGF2, AREG and VEGFA; FGF2, AREG and VEGFB; FGF2, AREG and VEGFC; FGF2, AREG and VEGFD; FGF2, AREG and TGFB1; FGF2, AREG and IL-10; 30

FGF2, AREG and an anti-TNF α antibody; FGF2, EREG and HBEGF; FGF2, EREG and HGF;
 FGF2, EREG and HRGB; FGF2, EREG and BTC; FGF2, EREG and EGF; FGF2, EREG and
 TGFA; FGF2, EREG and FGF1; FGF2, EREG and FGF4; FGF2, EREG and FGF7; FGF2,
 EREG and FGF9; FGF2, EREG and FGF19; FGF2, EREG and SCF; FGF2, EREG and PDGFA;
 5 FGF2, EREG and PDGFB; FGF2, EREG and PDGFC; FGF2, EREG and VEGFA; FGF2, EREG
 and VEGFB; FGF2, EREG and VEGFC; FGF2, EREG and VEGFD; FGF2, EREG and TGFB1;
 FGF2, EREG and IL-10; FGF2, EREG and an anti-TNF α antibody; FGF2, HBEGF and HGF;
 FGF2, HBEGF and HRGB; FGF2, HBEGF and BTC; FGF2, HBEGF and EGF; FGF2, HBEGF
 and TGFA; FGF2, HBEGF and FGF1; FGF2, HBEGF and FGF4; FGF2, HBEGF and FGF7;
 10 FGF2, HBEGF and FGF9; FGF2, HBEGF and FGF19; FGF2, HBEGF and SCF; FGF2, HBEGF
 and PDGFA; FGF2, HBEGF and PDGFB; FGF2, HBEGF and PDGFC; FGF2, HBEGF and
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 VEGFD; FGF2, HBEGF and TGFB1; FGF2, HBEGF and IL-10; FGF2, HBEGF and an anti-
 TNF α antibody; FGF2, HGF and HRGB; FGF2, HGF and BTC; FGF2, HGF and EGF; FGF2,
 15 HGF and TGFA; FGF2, HGF and FGF1; FGF2, HGF and FGF4; FGF2, HGF and FGF7; FGF2,
 HGF and FGF9; FGF2, HGF and FGF19; FGF2, HGF and SCF; FGF2, HGF and PDGFA;
 FGF2, HGF and PDGFB; FGF2, HGF and PDGFC; FGF2, HGF and VEGFA; FGF2, HGF and
 VEGFB; FGF2, HGF and VEGFC; FGF2, HGF and VEGFD; FGF2, HGF and TGFB1; FGF2,
 HGF and IL-10; FGF2, HGF and an anti-TNF α antibody; FGF2, HRGB and BTC; FGF2,
 20 HRGB and EGF; FGF2, HRGB and TGFA; FGF2, HRGB and FGF1; FGF2, HRGB and FGF4;
 FGF2, HRGB and FGF7; FGF2, HRGB and FGF9; FGF2, HRGB and FGF19; FGF2, HRGB
 and SCF; FGF2, HRGB and PDGFA; FGF2, HRGB and PDGFB; FGF2, HRGB and PDGFC;
 FGF2, HRGB and VEGFA; FGF2, HRGB and VEGFB; FGF2, HRGB and VEGFC; FGF2,
 HRGB and VEGFD; FGF2, HRGB and TGFB1; FGF2, HRGB and IL-10; FGF2, HRGB and an
 25 anti-TNF α antibody; FGF2, BTC and EGF; FGF2, BTC and TGFA; FGF2, BTC and FGF1;
 FGF2, BTC and FGF4; FGF2, BTC and FGF7; FGF2, BTC and FGF9; FGF2, BTC and FGF19;
 FGF2, BTC and SCF; FGF2, BTC and PDGFA; FGF2, BTC and PDGFB; FGF2, BTC and
 PDGFC; FGF2, BTC and VEGFA; FGF2, BTC and VEGFB; FGF2, BTC and VEGFC; FGF2,
 BTC and VEGFD; FGF2, BTC and TGFB1; FGF2, BTC and IL-10; FGF2, BTC and an anti-
 30 TNF α antibody; FGF2, EGF and TGFA; FGF2, EGF and FGF1; FGF2, EGF and FGF4; FGF2,
 EGF and FGF7; FGF2, EGF and FGF9; FGF2, EGF and FGF19; FGF2, EGF and SCF; FGF2,

EGF and PDGFA; FGF2, EGF and PDGFB; FGF2, EGF and PDGFC; FGF2, EGF and VEGFA;
 FGF2, EGF and VEGFB; FGF2, EGF and VEGFC; FGF2, EGF and VEGFD; FGF2, EGF and
 TGF β 1; FGF2, EGF and IL-10; FGF2, EGF and an anti-TNF α antibody; FGF2, TGFA and
 FGF1; FGF2, TGFA and FGF4; FGF2, TGFA and FGF7; FGF2, TGFA and FGF9; FGF2,
 5 TGFA and FGF19; FGF2, TGFA and SCF; FGF2, TGFA and PDGFA; FGF2, TGFA and
 PDGFB; FGF2, TGFA and PDGFC; FGF2, TGFA and VEGFA; FGF2, TGFA and VEGFB;
 FGF2, TGFA and VEGFC; FGF2, TGFA and VEGFD; FGF2, TGFA and TGF β 1; FGF2, TGFA
 and IL-10; FGF2, TGFA and an anti-TNF α antibody; FGF2, FGF1 and FGF4; FGF2, FGF1 and
 FGF7; FGF2, FGF1 and FGF9; FGF2, FGF1 and FGF19; FGF2, FGF1 and SCF; FGF2, FGF1
 10 and PDGFA; FGF2, FGF1 and PDGFB; FGF2, FGF1 and PDGFC; FGF2, FGF1 and VEGFA;
 FGF2, FGF1 and VEGFB; FGF2, FGF1 and VEGFC; FGF2, FGF1 and VEGFD; FGF2, FGF1
 and TGF β 1; FGF2, FGF1 and IL-10; FGF2, FGF1 and an anti-TNF α antibody; FGF2, FGF4 and
 FGF7; FGF2, FGF4 and FGF9; FGF2, FGF4 and FGF19; FGF2, FGF4 and SCF; FGF2, FGF4
 and PDGFA; FGF2, FGF4 and PDGFB; FGF2, FGF4 and PDGFC; FGF2, FGF4 and VEGFA;
 15 FGF2, FGF4 and VEGFB; FGF2, FGF4 and VEGFC; FGF2, FGF4 and VEGFD; FGF2, FGF4
 and TGF β 1; FGF2, FGF4 and IL-10; FGF2, FGF4 and an anti-TNF α antibody; FGF2, FGF7 and
 FGF9; FGF2, FGF7 and FGF19; FGF2, FGF7 and SCF; FGF2, FGF7 and PDGFA; FGF2, FGF7
 and PDGFB; FGF2, FGF7 and PDGFC; FGF2, FGF7 and VEGFA; FGF2, FGF7 and VEGFB;
 FGF2, FGF7 and VEGFC; FGF2, FGF7 and VEGFD; FGF2, FGF7 and TGF β 1; FGF2, FGF7
 20 and IL-10; FGF2, FGF7 and an anti-TNF α antibody; FGF2, FGF9 and FGF19; FGF2, FGF9 and
 SCF; FGF2, FGF9 and PDGFA; FGF2, FGF9 and PDGFB; FGF2, FGF9 and PDGFC; FGF2,
 FGF9 and VEGFA; FGF2, FGF9 and VEGFB; FGF2, FGF9 and VEGFC; FGF2, FGF9 and
 VEGFD; FGF2, FGF9 and TGF β 1; FGF2, FGF9 and IL-10; FGF2, FGF9 and an anti-TNF α
 antibody; FGF2, FGF19 and SCF; FGF2, FGF19 and PDGFA; FGF2, FGF19 and PDGFB;
 25 FGF2, FGF19 and PDGFC; FGF2, FGF19 and VEGFA; FGF2, FGF19 and VEGFB; FGF2,
 FGF19 and VEGFC; FGF2, FGF19 and VEGFD; FGF2, FGF19 and TGF β 1; FGF2, FGF19 and
 IL-10; FGF2, FGF19 and an anti-TNF α antibody; FGF2, SCF and PDGFA; FGF2, SCF and
 PDGFB; FGF2, SCF and PDGFC; FGF2, SCF and VEGFA; FGF2, SCF and VEGFB; FGF2,
 SCF and VEGFC; FGF2, SCF and VEGFD; FGF2, SCF and TGF β 1; FGF2, SCF and IL-10;
 30 FGF2, SCF and an anti-TNF α antibody; FGF2, PDGFA and PDGFB; FGF2, PDGFA and
 PDGFC; FGF2, PDGFA and VEGFA; FGF2, PDGFA and VEGFB; FGF2, PDGFA and

VEGFC; FGF2, PDGFA and VEGFD; FGF2, PDGFA and TGFB1; FGF2, PDGFA and IL-10;
 FGF2, PDGFA and an anti-TNF α antibody; FGF2, PDGFB and PDGFC; FGF2, PDGFB and
 VEGFA; FGF2, PDGFB and VEGFB; FGF2, PDGFB and VEGFC; FGF2, PDGFB and
 VEGFD; FGF2, PDGFB and TGFB1; FGF2, PDGFB and IL-10; FGF2, PDGFB and an anti-
 5 TNF α antibody; FGF2, PDGFC and VEGFA; FGF2, PDGFC and VEGFB; FGF2, PDGFC and
 VEGFC; FGF2, PDGFC and VEGFD; FGF2, PDGFC and TGFB1; FGF2, PDGFC and IL-10;
 FGF2, PDGFC and an anti-TNF α antibody; FGF2, VEGFA and VEGFB; FGF2, VEGFA and
 VEGFC; FGF2, VEGFA and VEGFD; FGF2, VEGFA and TGFB1; FGF2, VEGFA and IL-10;
 FGF2, VEGFA and an anti-TNF α antibody; FGF2, VEGFB and VEGFC; FGF2, VEGFB and
 10 VEGFD; FGF2, VEGFB and TGFB1; FGF2, VEGFB and IL-10; FGF2, VEGFB and an anti-
 TNF α antibody; FGF2, VEGFC and VEGFD; FGF2, VEGFC and TGFB1; FGF2, VEGFC and
 IL-10; FGF2, VEGFC and an anti-TNF α antibody; FGF2, VEGFD and TGFB1; FGF2, VEGFD
 and IL-10; FGF2, VEGFD and an anti-TNF α antibody; FGF2, TGFB1 and IL-10; FGF2, TGFB1
 and an anti-TNF α antibody; FGF2, IL-10 and an anti-TNF α antibody; FGF4, AREG and EREG;
 15 FGF4, AREG and HBEGF; FGF4, AREG and HGF; FGF4, AREG and HRGB; FGF4, AREG
 and BTC; FGF4, AREG and EGF; FGF4, AREG and TGFA; FGF4, AREG and FGF1; FGF4,
 AREG and FGF2; FGF4, AREG and FGF4; FGF4, AREG and FGF7; FGF4, AREG and FGF9;
 FGF4, AREG and FGF19; FGF4, AREG and SCF; FGF4, AREG and PDGFA; FGF4, AREG
 and PDGFB; FGF4, AREG and PDGFC; FGF4, AREG and VEGFA; FGF4, AREG and
 20 VEGFB; FGF4, AREG and VEGFC; FGF4, AREG and VEGFD; FGF4, AREG and TGFB1;
 FGF4, AREG and IL-10; FGF4, AREG and an anti-TNF α antibody; FGF4, EREG and HBEGF;
 FGF4, EREG and HGF; FGF4, EREG and HRGB; FGF4, EREG and BTC; FGF4, EREG and
 EGF; FGF4, EREG and TGFA; FGF4, EREG and FGF1; FGF4, EREG and FGF2; FGF4, EREG
 and FGF7; FGF4, EREG and FGF9; FGF4, EREG and FGF19; FGF4, EREG and SCF; FGF4,
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 VEGFA; FGF4, EREG and VEGFB; FGF4, EREG and VEGFC; FGF4, EREG and VEGFD;
 FGF4, EREG and TGFB1; FGF4, EREG and IL-10; FGF4, EREG and an anti-TNF α antibody;
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 and EGF; FGF4, HBEGF and TGFA; FGF4, HBEGF and FGF1; FGF4, HBEGF and FGF2;
 30 FGF4, HBEGF and FGF7; FGF4, HBEGF and FGF9; FGF4, HBEGF and FGF19; FGF4,
 HBEGF and SCF; FGF4, HBEGF and PDGFA; FGF4, HBEGF and PDGFB; FGF4, HBEGF

and PDGFC; FGF4, HBEGF and VEGFA; FGF4, HBEGF and VEGFB; FGF4, HBEGF and VEGFC; FGF4, HBEGF and VEGFD; FGF4, HBEGF and TGFB1; FGF4, HBEGF and IL-10; FGF4, HBEGF and an anti-TNF α antibody; FGF4, HGF and HRGB; FGF4, HGF and BTC; FGF4, HGF and EGF; FGF4, HGF and TGFA; FGF4, HGF and FGF1; FGF4, HGF and FGF2; 5 FGF4, HGF and FGF7; FGF4, HGF and FGF9; FGF4, HGF and FGF19; FGF4, HGF and SCF; FGF4, HGF and PDGFA; FGF4, HGF and PDGFB; FGF4, HGF and PDGFC; FGF4, HGF and VEGFA; FGF4, HGF and VEGFB; FGF4, HGF and VEGFC; FGF4, HGF and VEGFD; FGF4, HGF and TGFB1; FGF4, HGF and IL-10; FGF4, HGF and an anti-TNF α antibody; FGF4, HRGB and BTC; FGF4, HRGB and EGF; FGF4, HRGB and TGFA; FGF4, HRGB and FGF1; 10 FGF4, HRGB and FGF2; FGF4, HRGB and FGF7; FGF4, HRGB and FGF9; FGF4, HRGB and FGF19; FGF4, HRGB and SCF; FGF4, HRGB and PDGFA; FGF4, HRGB and PDGFB; FGF4, HRGB and PDGFC; FGF4, HRGB and VEGFA; FGF4, HRGB and VEGFB; FGF4, HRGB and VEGFC; FGF4, HRGB and VEGFD; FGF4, HRGB and TGFB1; FGF4, HRGB and IL-10; FGF4, HRGB and an anti-TNF α antibody; FGF4, BTC and EGF; FGF4, BTC and TGFA; FGF4, BTC and FGF1; FGF4, BTC and FGF2; FGF4, BTC and FGF7; FGF4, BTC and FGF9; FGF4, BTC and FGF19; FGF4, BTC and SCF; FGF4, BTC and PDGFA; FGF4, BTC and PDGFB; FGF4, BTC and PDGFC; FGF4, BTC and VEGFA; FGF4, BTC and VEGFB; FGF4, BTC and VEGFC; FGF4, BTC and VEGFD; FGF4, BTC and TGFB1; FGF4, BTC and IL-10; FGF4, BTC and an anti-TNF α antibody; FGF4, EGF and TGFA; FGF4, EGF and FGF1; FGF4, EGF and FGF2; FGF4, EGF and FGF7; FGF4, EGF and FGF9; FGF4, EGF and FGF19; FGF4, EGF and SCF; FGF4, EGF and PDGFA; FGF4, EGF and PDGFB; FGF4, EGF and PDGFC; FGF4, EGF and VEGFA; FGF4, EGF and VEGFB; FGF4, EGF and VEGFC; FGF4, EGF and VEGFD; FGF4, EGF and TGFB1; FGF4, EGF and IL-10; FGF4, EGF and an anti-TNF α antibody; FGF4, TGFA and FGF1; FGF4, TGFA and FGF2; FGF4, TGFA and FGF7; FGF4, TGFA and FGF9; 25 FGF4, TGFA and FGF19; FGF4, TGFA and SCF; FGF4, TGFA and PDGFA; FGF4, TGFA and PDGFB; FGF4, TGFA and PDGFC; FGF4, TGFA and VEGFA; FGF4, TGFA and VEGFB; FGF4, TGFA and VEGFC; FGF4, TGFA and VEGFD; FGF4, TGFA and TGFB1; FGF4, TGFA and IL-10; FGF4, TGFA and an anti-TNF α antibody; FGF4, FGF1 and FGF2; FGF4, FGF1 and FGF7; FGF4, FGF1 and FGF9; FGF4, FGF1 and FGF19; FGF4, FGF1 and SCF; FGF4, FGF1 and PDGFA; FGF4, FGF1 and PDGFB; FGF4, FGF1 and PDGFC; FGF4, FGF1 and VEGFA; 30 FGF4, FGF1 and VEGFB; FGF4, FGF1 and VEGFC; FGF4, FGF1 and VEGFD; FGF4, FGF1

and TGFB1; FGF4, FGF1 and IL-10; FGF4, FGF1 and an anti-TNF α antibody; FGF4, FGF2 and FGF7; FGF4, FGF2 and FGF9; FGF4, FGF2 and FGF19; FGF4, FGF2 and SCF; FGF4, FGF2 and PDGFA; FGF4, FGF2 and PDGFB; FGF4, FGF2 and PDGFC; FGF4, FGF2 and VEGFA; FGF4, FGF2 and VEGFB; FGF4, FGF2 and VEGFC; FGF4, FGF2 and VEGFD; FGF4, FGF2 and TGFB1; FGF4, FGF2 and IL-10; FGF4, FGF2 and an anti-TNF α antibody; FGF4, FGF7 and FGF9; FGF4, FGF7 and FGF19; FGF4, FGF7 and SCF; FGF4, FGF7 and PDGFA; FGF4, FGF7 and PDGFB; FGF4, FGF7 and PDGFC; FGF4, FGF7 and VEGFA; FGF4, FGF7 and VEGFB; FGF4, FGF7 and VEGFC; FGF4, FGF7 and VEGFD; FGF4, FGF7 and TGFB1; FGF4, FGF7 and IL-10; FGF4, FGF7 and an anti-TNF α antibody; FGF4, FGF9 and FGF19; FGF4, FGF9 and SCF; FGF4, FGF9 and PDGFA; FGF4, FGF9 and PDGFB; FGF4, FGF9 and PDGFC; FGF4, FGF9 and VEGFA; FGF4, FGF9 and VEGFB; FGF4, FGF9 and VEGFC; FGF4, FGF9 and VEGFD; FGF4, FGF9 and TGFB1; FGF4, FGF9 and IL-10; FGF4, FGF9 and an anti-TNF α antibody; FGF4, FGF19 and SCF; FGF4, FGF19 and PDGFA; FGF4, FGF19 and PDGFB; FGF4, FGF19 and PDGFC; FGF4, FGF19 and VEGFA; FGF4, FGF19 and VEGFB; FGF4, FGF19 and VEGFC; FGF4, FGF19 and VEGFD; FGF4, FGF19 and TGFB1; FGF4, FGF19 and IL-10; FGF4, FGF19 and an anti-TNF α antibody; FGF4, SCF and PDGFA; FGF4, SCF and PDGFB; FGF4, SCF and PDGFC; FGF4, SCF and VEGFA; FGF4, SCF and VEGFB; FGF4, SCF and VEGFC; FGF4, SCF and VEGFD; FGF4, SCF and TGFB1; FGF4, SCF and IL-10; FGF4, SCF and an anti-TNF α antibody; FGF4, PDGFA and PDGFB; FGF4, PDGFA and PDGFC; FGF4, PDGFA and VEGFA; FGF4, PDGFA and VEGFB; FGF4, PDGFA and VEGFC; FGF4, PDGFA and VEGFD; FGF4, PDGFA and TGFB1; FGF4, PDGFA and IL-10; FGF4, PDGFA and an anti-TNF α antibody; FGF4, PDGFB and PDGFC; FGF4, PDGFB and VEGFA; FGF4, PDGFB and VEGFB; FGF4, PDGFB and VEGFC; FGF4, PDGFB and VEGFD; FGF4, PDGFB and TGFB1; FGF4, PDGFB and IL-10; FGF4, PDGFB and an anti-TNF α antibody; FGF4, PDGFC and VEGFA; FGF4, PDGFC and VEGFB; FGF4, PDGFC and VEGFC; FGF4, PDGFC and VEGFD; FGF4, PDGFC and TGFB1; FGF4, PDGFC and IL-10; FGF4, PDGFC and an anti-TNF α antibody; FGF4, VEGFA and VEGFB; FGF4, VEGFA and VEGFC; FGF4, VEGFA and VEGFD; FGF4, VEGFA and TGFB1; FGF4, VEGFA and IL-10; FGF4, VEGFA and an anti-TNF α antibody; FGF4, VEGFB and VEGFC; FGF4, VEGFB and VEGFD; FGF4, VEGFB and TGFB1; FGF4, VEGFB and IL-10; FGF4, VEGFB and an anti-TNF α antibody; FGF4, VEGFC and VEGFD; FGF4, VEGFC and TGFB1; FGF4, VEGFC and

IL-10; FGF4, VEGFC and an anti-TNF α antibody; FGF4, VEGFD and TGFB1; FGF4, VEGFD and IL-10; FGF4, VEGFD and an anti-TNF α antibody; FGF4, TGFB1 and IL-10; FGF4, TGFB1 and an anti-TNF α antibody; FGF4, IL-10 and an anti-TNF α antibody; FGF7, AREG and EREG; FGF7, AREG and HBEGF; FGF7, AREG and HGF; FGF7, AREG and HRGB; FGF7, AREG and BTC; FGF7, AREG and EGF; FGF7, AREG and TGFA; FGF7, AREG and FGF1; FGF7, AREG and FGF2; FGF7, AREG and FGF4; FGF7, AREG and FGF9; FGF7, AREG and FGF19; FGF7, AREG and SCF; FGF7, AREG and PDGFA; FGF7, AREG and PDGFB; FGF7, AREG and PDGFC; FGF7, AREG and VEGFA; FGF7, AREG and VEGFB; FGF7, AREG and VEGFC; FGF7, AREG and VEGFD; FGF7, AREG and TGFB1; FGF7, AREG and IL-10; FGF7, AREG and an anti-TNF α antibody; FGF7, EREG and HBEGF; FGF7, EREG and HGF; FGF7, EREG and HRGB; FGF7, EREG and BTC; FGF7, EREG and EGF; FGF7, EREG and TGFA; FGF7, EREG and FGF1; FGF7, EREG and FGF2; FGF7, EREG and FGF4; FGF7, EREG and FGF9; FGF7, EREG and FGF19; FGF7, EREG and SCF; FGF7, EREG and PDGFA; FGF7, EREG and PDGFB; FGF7, EREG and PDGFC; FGF7, EREG and VEGFA; FGF7, EREG and VEGFB; FGF7, EREG and VEGFC; FGF7, EREG and VEGFD; FGF7, EREG and TGFB1; FGF7, EREG and IL-10; FGF7, EREG and an anti-TNF α antibody; FGF7, HBEGF and HGF; FGF7, HBEGF and HRGB; FGF7, HBEGF and BTC; FGF7, HBEGF and EGF; FGF7, HBEGF and TGFA; FGF7, HBEGF and FGF1; FGF7, HBEGF and FGF2; FGF7, HBEGF and FGF4; FGF7, HBEGF and FGF9; FGF7, HBEGF and FGF19; FGF7, HBEGF and SCF; FGF7, HBEGF and PDGFA; FGF7, HBEGF and PDGFB; FGF7, HBEGF and PDGFC; FGF7, HBEGF and VEGFA; FGF7, HBEGF and VEGFB; FGF7, HBEGF and VEGFC; FGF7, HBEGF and VEGFD; FGF7, HBEGF and TGFB1; FGF7, HBEGF and IL-10; FGF7, HBEGF and an anti-TNF α antibody; FGF7, HGF and HRGB; FGF7, HGF and BTC; FGF7, HGF and EGF; FGF7, HGF and TGFA; FGF7, HGF and FGF1; FGF7, HGF and FGF2; FGF7, HGF and FGF4; FGF7, HGF and FGF9; FGF7, HGF and FGF19; FGF7, HGF and SCF; FGF7, HGF and PDGFA; FGF7, HGF and PDGFB; FGF7, HGF and PDGFC; FGF7, HGF and VEGFA; FGF7, HGF and VEGFB; FGF7, HGF and VEGFC; FGF7, HGF and VEGFD; FGF7, HGF and TGFB1; FGF7, HGF and IL-10; FGF7, HGF and an anti-TNF α antibody; FGF7, HRGB and BTC; FGF7, HRGB and EGF; FGF7, HRGB and TGFA; FGF7, HRGB and FGF1; FGF7, HRGB and FGF2; FGF7, HRGB and FGF4; FGF7, HRGB and FGF9; FGF7, HRGB and FGF19; FGF7, HRGB and SCF; FGF7, HRGB and PDGFA; FGF7, HRGB and PDGFB; FGF7, HRGB and PDGFC;

FGF7, HRGB and VEGFA; FGF7, HRGB and VEGFB; FGF7, HRGB and VEGFC; FGF7,
 HRGB and VEGFD; FGF7, HRGB and TGFB1; FGF7, HRGB and IL-10; FGF7, HRGB and an
 anti-TNF α antibody; FGF7, BTC and EGF; FGF7, BTC and TGFA; FGF7, BTC and FGF1;
 FGF7, BTC and FGF2; FGF7, BTC and FGF4; FGF7, BTC and FGF9; FGF7, BTC and FGF19;
 5 FGF7, BTC and SCF; FGF7, BTC and PDGFA; FGF7, BTC and PDGFB; FGF7, BTC and
 PDGFC; FGF7, BTC and VEGFA; FGF7, BTC and VEGFB; FGF7, BTC and VEGFC; FGF7,
 BTC and VEGFD; FGF7, BTC and TGFB1; FGF7, BTC and IL-10; FGF7, BTC and an anti-
 TNF α antibody; FGF7, EGF and TGFA; FGF7, EGF and FGF1; FGF7, EGF and FGF2; FGF7,
 EGF and FGF4; FGF7, EGF and FGF9; FGF7, EGF and FGF19; FGF7, EGF and SCF; FGF7,
 10 EGF and PDGFA; FGF7, EGF and PDGFB; FGF7, EGF and PDGFC; FGF7, EGF and VEGFA;
 FGF7, EGF and VEGFB; FGF7, EGF and VEGFC; FGF7, EGF and VEGFD; FGF7, EGF and
 TGFB1; FGF7, EGF and IL-10; FGF7, EGF and an anti-TNF α antibody; FGF7, TGFA and
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 15 PDGFB; FGF7, TGFA and PDGFC; FGF7, TGFA and VEGFA; FGF7, TGFA and VEGFB;
 FGF7, TGFA and VEGFC; FGF7, TGFA and VEGFD; FGF7, TGFA and TGFB1; FGF7, TGFA
 and IL-10; FGF7, TGFA and an anti-TNF α antibody; FGF7, FGF1 and FGF2; FGF7, FGF1 and
 FGF4; FGF7, FGF1 and FGF9; FGF7, FGF1 and FGF19; FGF7, FGF1 and SCF; FGF7, FGF1
 and PDGFA; FGF7, FGF1 and PDGFB; FGF7, FGF1 and PDGFC; FGF7, FGF1 and VEGFA;
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 and TGFB1; FGF7, FGF1 and IL-10; FGF7, FGF1 and an anti-TNF α antibody; FGF7, FGF2 and
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 and PDGFA; FGF7, FGF2 and PDGFB; FGF7, FGF2 and PDGFC; FGF7, FGF2 and VEGFA;
 FGF7, FGF2 and VEGFB; FGF7, FGF2 and VEGFC; FGF7, FGF2 and VEGFD; FGF7, FGF2
 25 and TGFB1; FGF7, FGF2 and IL-10; FGF7, FGF2 and an anti-TNF α antibody; FGF7, FGF4 and
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 and PDGFB; FGF7, FGF4 and PDGFC; FGF7, FGF4 and VEGFA; FGF7, FGF4 and VEGFB;
 FGF7, FGF4 and VEGFC; FGF7, FGF4 and VEGFD; FGF7, FGF4 and TGFB1; FGF7, FGF4
 and IL-10; FGF7, FGF4 and an anti-TNF α antibody; FGF7, FGF9 and FGF19; FGF7, FGF9 and
 30 SCF; FGF7, FGF9 and PDGFA; FGF7, FGF9 and PDGFB; FGF7, FGF9 and PDGFC; FGF7,
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VEGFD; FGF7, FGF9 and TGFB1; FGF7, FGF9 and IL-10; FGF7, FGF9 and an anti-TNF α
 antibody; FGF7, FGF19 and SCF; FGF7, FGF19 and PDGFA; FGF7, FGF19 and PDGFB;
 FGF7, FGF19 and PDGFC; FGF7, FGF19 and VEGFA; FGF7, FGF19 and VEGFB; FGF7,
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 5 IL-10; FGF7, FGF19 and an anti-TNF α antibody; FGF7, SCF and PDGFA; FGF7, SCF and
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 SCF and VEGFC; FGF7, SCF and VEGFD; FGF7, SCF and TGFB1; FGF7, SCF and IL-10;
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 10 VEGFC; FGF7, PDGFA and VEGFD; FGF7, PDGFA and TGFB1; FGF7, PDGFA and IL-10;
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 15 VEGFC; FGF7, PDGFC and VEGFD; FGF7, PDGFC and TGFB1; FGF7, PDGFC and IL-10;
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 20 TNF α antibody; FGF7, VEGFC and VEGFD; FGF7, VEGFC and TGFB1; FGF7, VEGFC and
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 and IL-10; FGF7, VEGFD and an anti-TNF α antibody; FGF7, TGFB1 and IL-10; FGF7, TGFB1
 and an anti-TNF α antibody; FGF7, IL-10 and an anti-TNF α antibody; FGF9, AREG and EREG;
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 25 and BTC; FGF9, AREG and EGF; FGF9, AREG and TGFA; FGF9, AREG and FGF1; FGF9,
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 and PDGFC; FGF9, AREG and VEGFA; FGF9, AREG and VEGFB; FGF9, AREG and
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 FGF9, EREG and PDGFB; FGF9, EREG and PDGFC; FGF9, EREG and VEGFA; FGF9, EREG
 and VEGFB; FGF9, EREG and VEGFC; FGF9, EREG and VEGFD; FGF9, EREG and TGFB1;
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 15 FGF9, HGF and PDGFB; FGF9, HGF and PDGFC; FGF9, HGF and VEGFA; FGF9, HGF and
 VEGFB; FGF9, HGF and VEGFC; FGF9, HGF and VEGFD; FGF9, HGF and TGFB1; FGF9,
 HGF and IL-10; FGF9, HGF and an anti-TNF α antibody; FGF9, HRGB and BTC; FGF9,
 HRGB and EGF; FGF9, HRGB and TGFA; FGF9, HRGB and FGF1; FGF9, HRGB and FGF2;
 FGF9, HRGB and FGF4; FGF9, HRGB and FGF7; FGF9, HRGB and FGF19; FGF9, HRGB
 20 and SCF; FGF9, HRGB and PDGFA; FGF9, HRGB and PDGFB; FGF9, HRGB and PDGFC;
 FGF9, HRGB and VEGFA; FGF9, HRGB and VEGFB; FGF9, HRGB and VEGFC; FGF9,
 HRGB and VEGFD; FGF9, HRGB and TGFB1; FGF9, HRGB and IL-10; FGF9, HRGB and an
 anti-TNF α antibody; FGF9, BTC and EGF; FGF9, BTC and TGFA; FGF9, BTC and FGF1;
 FGF9, BTC and FGF2; FGF9, BTC and FGF4; FGF9, BTC and FGF7; FGF9, BTC and FGF19;
 25 FGF9, BTC and SCF; FGF9, BTC and PDGFA; FGF9, BTC and PDGFB; FGF9, BTC and
 PDGFC; FGF9, BTC and VEGFA; FGF9, BTC and VEGFB; FGF9, BTC and VEGFC; FGF9,
 BTC and VEGFD; FGF9, BTC and TGFB1; FGF9, BTC and IL-10; FGF9, BTC and an anti-
 TNF α antibody; FGF9, EGF and TGFA; FGF9, EGF and FGF1; FGF9, EGF and FGF2; FGF9,
 EGF and FGF4; FGF9, EGF and FGF7; FGF9, EGF and FGF19; FGF9, EGF and SCF; FGF9,
 30 EGF and PDGFA; FGF9, EGF and PDGFB; FGF9, EGF and PDGFC; FGF9, EGF and VEGFA;
 FGF9, EGF and VEGFB; FGF9, EGF and VEGFC; FGF9, EGF and VEGFD; FGF9, EGF and

TGFB1; FGF9, EGF and IL-10; FGF9, EGF and an anti-TNF α antibody; FGF9, TGFA and
 FGF1; FGF9, TGFA and FGF2; FGF9, TGFA and FGF4; FGF9, TGFA and FGF7; FGF9,
 TGFA and FGF19; FGF9, TGFA and SCF; FGF9, TGFA and PDGFA; FGF9, TGFA and
 PDGFB; FGF9, TGFA and PDGFC; FGF9, TGFA and VEGFA; FGF9, TGFA and VEGFB;
 5 FGF9, TGFA and VEGFC; FGF9, TGFA and VEGFD; FGF9, TGFA and TGFB1; FGF9, TGFA
 and IL-10; FGF9, TGFA and an anti-TNF α antibody; FGF9, FGF1 and FGF2; FGF9, FGF1 and
 FGF4; FGF9, FGF1 and FGF7; FGF9, FGF1 and FGF19; FGF9, FGF1 and SCF; FGF9, FGF1
 and PDGFA; FGF9, FGF1 and PDGFB; FGF9, FGF1 and PDGFC; FGF9, FGF1 and VEGFA;
 FGF9, FGF1 and VEGFB; FGF9, FGF1 and VEGFC; FGF9, FGF1 and VEGFD; FGF9, FGF1
 10 and TGFB1; FGF9, FGF1 and IL-10; FGF9, FGF1 and an anti-TNF α antibody; FGF9, FGF2 and
 FGF4; FGF9, FGF2 and FGF7; FGF9, FGF2 and FGF19; FGF9, FGF2 and SCF; FGF9, FGF2
 and PDGFA; FGF9, FGF2 and PDGFB; FGF9, FGF2 and PDGFC; FGF9, FGF2 and VEGFA;
 FGF9, FGF2 and VEGFB; FGF9, FGF2 and VEGFC; FGF9, FGF2 and VEGFD; FGF9, FGF2
 and TGFB1; FGF9, FGF2 and IL-10; FGF9, FGF2 and an anti-TNF α antibody; FGF9, FGF4 and
 15 FGF7; FGF9, FGF4 and FGF19; FGF9, FGF4 and SCF; FGF9, FGF4 and PDGFA; FGF9, FGF4
 and PDGFB; FGF9, FGF4 and PDGFC; FGF9, FGF4 and VEGFA; FGF9, FGF4 and VEGFB;
 FGF9, FGF4 and VEGFC; FGF9, FGF4 and VEGFD; FGF9, FGF4 and TGFB1; FGF9, FGF4
 and IL-10; FGF9, FGF4 and an anti-TNF α antibody; FGF9, FGF7 and FGF19; FGF9, FGF7 and
 SCF; FGF9, FGF7 and PDGFA; FGF9, FGF7 and PDGFB; FGF9, FGF7 and PDGFC; FGF9,
 20 FGF7 and VEGFA; FGF9, FGF7 and VEGFB; FGF9, FGF7 and VEGFC; FGF9, FGF7 and
 VEGFD; FGF9, FGF7 and TGFB1; FGF9, FGF7 and IL-10; FGF9, FGF7 and an anti-TNF α
 antibody; FGF9, FGF19 and SCF; FGF9, FGF19 and PDGFA; FGF9, FGF19 and PDGFB;
 FGF9, FGF19 and PDGFC; FGF9, FGF19 and VEGFA; FGF9, FGF19 and VEGFB; FGF9,
 FGF19 and VEGFC; FGF9, FGF19 and VEGFD; FGF9, FGF19 and TGFB1; FGF9, FGF19 and
 25 IL-10; FGF9, FGF19 and an anti-TNF α antibody; FGF9, SCF and PDGFA; FGF9, SCF and
 PDGFB; FGF9, SCF and PDGFC; FGF9, SCF and VEGFA; FGF9, SCF and VEGFB; FGF9,
 SCF and VEGFC; FGF9, SCF and VEGFD; FGF9, SCF and TGFB1; FGF9, SCF and IL-10;
 FGF9, SCF and an anti-TNF α antibody; FGF9, PDGFA and PDGFB; FGF9, PDGFA and
 PDGFC; FGF9, PDGFA and VEGFA; FGF9, PDGFA and VEGFB; FGF9, PDGFA and
 30 VEGFC; FGF9, PDGFA and VEGFD; FGF9, PDGFA and TGFB1; FGF9, PDGFA and IL-10;
 FGF9, PDGFA and an anti-TNF α antibody; FGF9, PDGFB and PDGFC; FGF9, PDGFB and

VEGFA; FGF9, PDGFB and VEGFB; FGF9, PDGFB and VEGFC; FGF9, PDGFB and
 VEGFD; FGF9, PDGFB and TGFB1; FGF9, PDGFB and IL-10; FGF9, PDGFB and an anti-
 TNF α antibody; FGF9, PDGFC and VEGFA; FGF9, PDGFC and VEGFB; FGF9, PDGFC and
 VEGFC; FGF9, PDGFC and VEGFD; FGF9, PDGFC and TGFB1; FGF9, PDGFC and IL-10;
 5 FGF9, PDGFC and an anti-TNF α antibody; FGF9, VEGFA and VEGFB; FGF9, VEGFA and
 VEGFC; FGF9, VEGFA and VEGFD; FGF9, VEGFA and TGFB1; FGF9, VEGFA and IL-10;
 FGF9, VEGFA and an anti-TNF α antibody; FGF9, VEGFB and VEGFC; FGF9, VEGFB and
 VEGFD; FGF9, VEGFB and TGFB1; FGF9, VEGFB and IL-10; FGF9, VEGFB and an anti-
 TNF α antibody; FGF9, VEGFC and VEGFD; FGF9, VEGFC and TGFB1; FGF9, VEGFC and
 10 IL-10; FGF9, VEGFC and an anti-TNF α antibody; FGF9, VEGFD and TGFB1; FGF9, VEGFD
 and IL-10; FGF9, VEGFD and an anti-TNF α antibody; FGF9, TGFB1 and IL-10; FGF9, TGFB1
 and an anti-TNF α antibody; FGF9, IL-10 and an anti-TNF α antibody; FGF19, AREG and
 EREG; FGF19, AREG and HBEGF; FGF19, AREG and HGF; FGF19, AREG and HRGB;
 FGF19, AREG and BTC; FGF19, AREG and EGF; FGF19, AREG and TGFA; FGF19, AREG
 15 and FGF1; FGF19, AREG and FGF2; FGF19, AREG and FGF4; FGF19, AREG and FGF7;
 FGF19, AREG and FGF9; FGF19, AREG and SCF; FGF19, AREG and PDGFA; FGF19,
 AREG and PDGFB; FGF19, AREG and PDGFC; FGF19, AREG and VEGFA; FGF19, AREG
 and VEGFB; FGF19, AREG and VEGFC; FGF19, AREG and VEGFD; FGF19, AREG and
 TGFB1; FGF19, AREG and IL-10; FGF19, AREG and an anti-TNF α antibody; FGF19, EREG
 20 and HBEGF; FGF19, EREG and HGF; FGF19, EREG and HRGB; FGF19, EREG and BTC;
 FGF19, EREG and EGF; FGF19, EREG and TGFA; FGF19, EREG and FGF1; FGF19, EREG
 and FGF2; FGF19, EREG and FGF4; FGF19, EREG and FGF7; FGF19, EREG and FGF9;
 FGF19, EREG and SCF; FGF19, EREG and PDGFA; FGF19, EREG and PDGFB; FGF19,
 EREG and PDGFC; FGF19, EREG and VEGFA; FGF19, EREG and VEGFB; FGF19, EREG
 25 and VEGFC; FGF19, EREG and VEGFD; FGF19, EREG and TGFB1; FGF19, EREG and IL-
 10; FGF19, EREG and an anti-TNF α antibody; FGF19, HBEGF and HGF; FGF19, HBEGF and
 HRGB; FGF19, HBEGF and BTC; FGF19, HBEGF and EGF; FGF19, HBEGF and TGFA;
 FGF19, HBEGF and FGF1; FGF19, HBEGF and FGF2; FGF19, HBEGF and FGF4; FGF19,
 HBEGF and FGF7; FGF19, HBEGF and FGF9; FGF19, HBEGF and SCF; FGF19, HBEGF and
 30 PDGFA; FGF19, HBEGF and PDGFB; FGF19, HBEGF and PDGFC; FGF19, HBEGF and
 VEGFA; FGF19, HBEGF and VEGFB; FGF19, HBEGF and VEGFC; FGF19, HBEGF and

VEGFD; FGF19, HBEGF and TGFB1; FGF19, HBEGF and IL-10; FGF19, HBEGF and an anti-TNF α antibody; FGF19, HGF and HRGB; FGF19, HGF and BTC; FGF19, HGF and EGF; FGF19, HGF and TGFA; FGF19, HGF and FGF1; FGF19, HGF and FGF2; FGF19, HGF and FGF4; FGF19, HGF and FGF7; FGF19, HGF and FGF9; FGF19, HGF and SCF; FGF19, HGF and PDGFA; FGF19, HGF and PDGFB; FGF19, HGF and PDGFC; FGF19, HGF and VEGFA; FGF19, HGF and VEGFB; FGF19, HGF and VEGFC; FGF19, HGF and VEGFD; FGF19, HGF and TGFB1; FGF19, HGF and IL-10; FGF19, HGF and an anti-TNF α antibody; FGF19, HRGB and BTC; FGF19, HRGB and EGF; FGF19, HRGB and TGFA; FGF19, HRGB and FGF1; FGF19, HRGB and FGF2; FGF19, HRGB and FGF4; FGF19, HRGB and FGF7; FGF19, HRGB and FGF9; FGF19, HRGB and SCF; FGF19, HRGB and PDGFA; FGF19, HRGB and PDGFB; FGF19, HRGB and PDGFC; FGF19, HRGB and VEGFA; FGF19, HRGB and VEGFB; FGF19, HRGB and VEGFC; FGF19, HRGB and VEGFD; FGF19, HRGB and TGFB1; FGF19, HRGB and IL-10; FGF19, HRGB and an anti-TNF α antibody; FGF19, BTC and EGF; FGF19, BTC and TGFA; FGF19, BTC and FGF1; FGF19, BTC and FGF2; FGF19, BTC and FGF4; FGF19, BTC and FGF7; FGF19, BTC and FGF9; FGF19, BTC and SCF; FGF19, BTC and PDGFA; FGF19, BTC and PDGFB; FGF19, BTC and PDGFC; FGF19, BTC and VEGFA; FGF19, BTC and VEGFB; FGF19, BTC and VEGFC; FGF19, BTC and VEGFD; FGF19, BTC and TGFB1; FGF19, BTC and IL-10; FGF19, BTC and an anti-TNF α antibody; FGF19, EGF and TGFA; FGF19, EGF and FGF1; FGF19, EGF and FGF2; FGF19, EGF and FGF4; FGF19, EGF and FGF7; FGF19, EGF and FGF9; FGF19, EGF and SCF; FGF19, EGF and PDGFA; FGF19, EGF and PDGFB; FGF19, EGF and PDGFC; FGF19, EGF and VEGFA; FGF19, EGF and VEGFB; FGF19, EGF and VEGFC; FGF19, EGF and VEGFD; FGF19, EGF and TGFB1; FGF19, EGF and IL-10; FGF19, EGF and an anti-TNF α antibody; FGF19, TGFA and FGF1; FGF19, TGFA and FGF2; FGF19, TGFA and FGF4; FGF19, TGFA and FGF7; FGF19, TGFA and FGF9; FGF19, TGFA and SCF; FGF19, TGFA and PDGFA; FGF19, TGFA and PDGFB; FGF19, TGFA and PDGFC; FGF19, TGFA and VEGFA; FGF19, TGFA and VEGFB; FGF19, TGFA and VEGFC; FGF19, TGFA and VEGFD; FGF19, TGFA and TGFB1; FGF19, TGFA and IL-10; FGF19, TGFA and an anti-TNF α antibody; FGF19, FGF1 and FGF2; FGF19, FGF1 and FGF4; FGF19, FGF1 and FGF7; FGF19, FGF1 and FGF9; FGF19, FGF1 and SCF; FGF19, FGF1 and PDGFA; FGF19, FGF1 and PDGFB; FGF19, FGF1 and PDGFC; FGF19, FGF1 and VEGFA; FGF19, FGF1 and VEGFB; FGF19, FGF1 and VEGFC; FGF19, FGF1 and VEGFD;

FGF19, FGF1 and TGFB1; FGF19, FGF1 and IL-10; FGF19, FGF1 and an anti-TNF α antibody;
 FGF19, FGF2 and FGF4; FGF19, FGF2 and FGF7; FGF19, FGF2 and FGF9; FGF19, FGF2 and
 SCF; FGF19, FGF2 and PDGFA; FGF19, FGF2 and PDGFB; FGF19, FGF2 and PDGFC;
 FGF19, FGF2 and VEGFA; FGF19, FGF2 and VEGFB; FGF19, FGF2 and VEGFC; FGF19,
 5 FGF2 and VEGFD; FGF19, FGF2 and TGFB1; FGF19, FGF2 and IL-10; FGF19, FGF2 and an
 anti-TNF α antibody; FGF19, FGF4 and FGF7; FGF19, FGF4 and FGF9; FGF19, FGF4 and
 SCF; FGF19, FGF4 and PDGFA; FGF19, FGF4 and PDGFB; FGF19, FGF4 and PDGFC;
 FGF19, FGF4 and VEGFA; FGF19, FGF4 and VEGFB; FGF19, FGF4 and VEGFC; FGF19,
 FGF4 and VEGFD; FGF19, FGF4 and TGFB1; FGF19, FGF4 and IL-10; FGF19, FGF4 and an
 10 anti-TNF α antibody; FGF19, FGF7 and FGF9; FGF19, FGF7 and SCF; FGF19, FGF7 and
 PDGFA; FGF19, FGF7 and PDGFB; FGF19, FGF7 and PDGFC; FGF19, FGF7 and VEGFA;
 FGF19, FGF7 and VEGFB; FGF19, FGF7 and VEGFC; FGF19, FGF7 and VEGFD; FGF19,
 FGF7 and TGFB1; FGF19, FGF7 and IL-10; FGF19, FGF7 and an anti-TNF α antibody; FGF19,
 FGF9 and SCF; FGF19, FGF9 and PDGFA; FGF19, FGF9 and PDGFB; FGF19, FGF9 and
 15 PDGFC; FGF19, FGF9 and VEGFA; FGF19, FGF9 and VEGFB; FGF19, FGF9 and VEGFC;
 FGF19, FGF9 and VEGFD; FGF19, FGF9 and TGFB1; FGF19, FGF9 and IL-10; FGF19, FGF9
 and an anti-TNF α antibody; FGF19, SCF and PDGFA; FGF19, SCF and PDGFB; FGF19, SCF
 and PDGFC; FGF19, SCF and VEGFA; FGF19, SCF and VEGFB; FGF19, SCF and VEGFC;
 FGF19, SCF and VEGFD; FGF19, SCF and TGFB1; FGF19, SCF and IL-10; FGF19, SCF and
 20 an anti-TNF α antibody; FGF19, PDGFA and PDGFB; FGF19, PDGFA and PDGFC; FGF19,
 PDGFA and VEGFA; FGF19, PDGFA and VEGFB; FGF19, PDGFA and VEGFC; FGF19,
 PDGFA and VEGFD; FGF19, PDGFA and TGFB1; FGF19, PDGFA and IL-10; FGF19,
 PDGFA and an anti-TNF α antibody; FGF19, PDGFB and PDGFC; FGF19, PDGFB and
 VEGFA; FGF19, PDGFB and VEGFB; FGF19, PDGFB and VEGFC; FGF19, PDGFB and
 25 VEGFD; FGF19, PDGFB and TGFB1; FGF19, PDGFB and IL-10; FGF19, PDGFB and an anti-
 TNF α antibody; FGF19, PDGFC and VEGFA; FGF19, PDGFC and VEGFB; FGF19, PDGFC
 and VEGFC; FGF19, PDGFC and VEGFD; FGF19, PDGFC and TGFB1; FGF19, PDGFC and
 IL-10; FGF19, PDGFC and an anti-TNF α antibody; FGF19, VEGFA and VEGFB; FGF19,
 VEGFA and VEGFC; FGF19, VEGFA and VEGFD; FGF19, VEGFA and TGFB1; FGF19,
 30 VEGFA and IL-10; FGF19, VEGFA and an anti-TNF α antibody; FGF19, VEGFB and VEGFC;
 FGF19, VEGFB and VEGFD; FGF19, VEGFB and TGFB1; FGF19, VEGFB and IL-10;

FGF19, VEGFB and an anti-TNF α antibody; FGF19, VEGFC and VEGFD; FGF19, VEGFC and
 TGFB1; FGF19, VEGFC and IL-10; FGF19, VEGFC and an anti-TNF α antibody; FGF19,
 VEGFD and TGFB1; FGF19, VEGFD and IL-10; FGF19, VEGFD and an anti-TNF α antibody;
 5 anti-TNF α antibody; SCF, AREG and EREG; SCF, AREG and HBEGF; SCF, AREG and HGF;
 SCF, AREG and HRGB; SCF, AREG and BTC; SCF, AREG and EGF; SCF, AREG and TGFA;
 SCF, AREG and FGF1; SCF, AREG and FGF2; SCF, AREG and FGF4; SCF, AREG and FGF7;
 SCF, AREG and FGF9; SCF, AREG and FGF19; SCF, AREG and SCF; SCF, AREG and
 PDGFA; SCF, AREG and PDGFB; SCF, AREG and PDGFC; SCF, AREG and VEGFA; SCF,
 10 AREG and VEGFB; SCF, AREG and VEGFC; SCF, AREG and VEGFD; SCF, AREG and
 TGFB1; SCF, AREG and IL-10; SCF, AREG and an anti-TNF α antibody; SCF, EREG and
 HBEGF; SCF, EREG and HGF; SCF, EREG and HRGB; SCF, EREG and BTC; SCF, EREG
 and EGF; SCF, EREG and TGFA; SCF, EREG and FGF1; SCF, EREG and FGF2; SCF, EREG
 and FGF4; SCF, EREG and FGF7; SCF, EREG and FGF9; SCF, EREG and FGF19; SCF,
 15 EREG and PDGFA; SCF, EREG and PDGFB; SCF, EREG and PDGFC; SCF, EREG and
 VEGFA; SCF, EREG and VEGFB; SCF, EREG and VEGFC; SCF, EREG and VEGFD; SCF,
 EREG and TGFB1; SCF, EREG and IL-10; SCF, EREG and an anti-TNF α antibody; SCF,
 HBEGF and HGF; SCF, HBEGF and HRGB; SCF, HBEGF and BTC; SCF, HBEGF and EGF;
 SCF, HBEGF and TGFA; SCF, HBEGF and FGF1; SCF, HBEGF and FGF2; SCF, HBEGF and
 20 FGF4; SCF, HBEGF and FGF7; SCF, HBEGF and FGF9; SCF, HBEGF and FGF19; SCF,
 HBEGF and PDGFA; SCF, HBEGF and PDGFB; SCF, HBEGF and PDGFC; SCF, HBEGF and
 VEGFA; SCF, HBEGF and VEGFB; SCF, HBEGF and VEGFC; SCF, HBEGF and VEGFD;
 SCF, HBEGF and TGFB1; SCF, HBEGF and IL-10; SCF, HBEGF and an anti-TNF α antibody;
 SCF, HGF and HRGB; SCF, HGF and BTC; SCF, HGF and EGF; SCF, HGF and TGFA; SCF,
 25 HGF and FGF1; SCF, HGF and FGF2; SCF, HGF and FGF4; SCF, HGF and FGF7; SCF, HGF
 and FGF9; SCF, HGF and FGF19; SCF, HGF and PDGFA; SCF, HGF and PDGFB; SCF, HGF
 and PDGFC; SCF, HGF and VEGFA; SCF, HGF and VEGFB; SCF, HGF and VEGFC; SCF,
 HGF and VEGFD; SCF, HGF and TGFB1; SCF, HGF and IL-10; SCF, HGF and an anti-TNF α
 antibody; SCF, HRGB and BTC; SCF, HRGB and EGF; SCF, HRGB and TGFA; SCF, HRGB
 30 and FGF1; SCF, HRGB and FGF2; SCF, HRGB and FGF4; SCF, HRGB and FGF7; SCF,
 HRGB and FGF9; SCF, HRGB and FGF19; SCF, HRGB and PDGFA; SCF, HRGB and

PDGFB; SCF, HRGB and PDGFC; SCF, HRGB and VEGFA; SCF, HRGB and VEGFB; SCF,
 HRGB and VEGFC; SCF, HRGB and VEGFD; SCF, HRGB and TGFB1; SCF, HRGB and IL-
 10; SCF, HRGB and an anti-TNF α antibody; SCF, BTC and EGF; SCF, BTC and TGFA; SCF,
 BTC and FGF1; SCF, BTC and FGF2; SCF, BTC and FGF4; SCF, BTC and FGF7; SCF, BTC
 5 and FGF9; SCF, BTC and FGF19; SCF, BTC and PDGFA; SCF, BTC and PDGFB; SCF, BTC
 and PDGFC; SCF, BTC and VEGFA; SCF, BTC and VEGFB; SCF, BTC and VEGFC; SCF,
 BTC and VEGFD; SCF, BTC and TGFB1; SCF, BTC and IL-10; SCF, BTC and an anti-TNF α
 antibody; SCF, EGF and TGFA; SCF, EGF and FGF1; SCF, EGF and FGF2; SCF, EGF and
 FGF4; SCF, EGF and FGF7; SCF, EGF and FGF9; SCF, EGF and FGF19; SCF, EGF and
 10 PDGFA; SCF, EGF and PDGFB; SCF, EGF and PDGFC; SCF, EGF and VEGFA; SCF, EGF
 and VEGFB; SCF, EGF and VEGFC; SCF, EGF and VEGFD; SCF, EGF and TGFB1; SCF,
 EGF and IL-10; SCF, EGF and an anti-TNF α antibody; SCF, TGFA and FGF1; SCF, TGFA and
 FGF2; SCF, TGFA and FGF4; SCF, TGFA and FGF7; SCF, TGFA and FGF9; SCF, TGFA and
 FGF19; SCF, TGFA and PDGFA; SCF, TGFA and PDGFB; SCF, TGFA and PDGFC; SCF,
 15 TGFA and VEGFA; SCF, TGFA and VEGFB; SCF, TGFA and VEGFC; SCF, TGFA and
 VEGFD; SCF, TGFA and TGFB1; SCF, TGFA and IL-10; SCF, TGFA and an anti-TNF α
 antibody; SCF, FGF1 and FGF2; SCF, FGF1 and FGF4; SCF, FGF1 and FGF7; SCF, FGF1 and
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 and PDGFC; SCF, FGF1 and VEGFA; SCF, FGF1 and VEGFB; SCF, FGF1 and VEGFC; SCF,
 20 FGF1 and VEGFD; SCF, FGF1 and TGFB1; SCF, FGF1 and IL-10; SCF, FGF1 and an anti-
 TNF α antibody; SCF, FGF2 and FGF4; SCF, FGF2 and FGF7; SCF, FGF2 and FGF9; SCF,
 FGF2 and FGF19; SCF, FGF2 and PDGFA; SCF, FGF2 and PDGFB; SCF, FGF2 and PDGFC;
 SCF, FGF2 and VEGFA; SCF, FGF2 and VEGFB; SCF, FGF2 and VEGFC; SCF, FGF2 and
 VEGFD; SCF, FGF2 and TGFB1; SCF, FGF2 and IL-10; SCF, FGF2 and an anti-TNF α
 25 antibody; SCF, FGF4 and FGF7; SCF, FGF4 and FGF9; SCF, FGF4 and FGF19; SCF, FGF4
 and PDGFA; SCF, FGF4 and PDGFB; SCF, FGF4 and PDGFC; SCF, FGF4 and VEGFA; SCF,
 FGF4 and VEGFB; SCF, FGF4 and VEGFC; SCF, FGF4 and VEGFD; SCF, FGF4 and TGFB1;
 SCF, FGF4 and IL-10; SCF, FGF4 and an anti-TNF α antibody; SCF, FGF7 and FGF9; SCF,
 FGF7 and FGF19; SCF, FGF7 and PDGFA; SCF, FGF7 and PDGFB; SCF, FGF7 and PDGFC;
 30 SCF, FGF7 and VEGFA; SCF, FGF7 and VEGFB; SCF, FGF7 and VEGFC; SCF, FGF7 and
 VEGFD; SCF, FGF7 and TGFB1; SCF, FGF7 and IL-10; SCF, FGF7 and an anti-TNF α

antibody; SCF, FGF9 and FGF19; SCF, FGF9 and PDGFA; SCF, FGF9 and PDGFB; SCF, FGF9 and PDGFC; SCF, FGF9 and VEGFA; SCF, FGF9 and VEGFB; SCF, FGF9 and VEGFC; SCF, FGF9 and VEGFD; SCF, FGF9 and TGFB1; SCF, FGF9 and IL-10; SCF, FGF9 and an anti-TNF α antibody; SCF, FGF19 and PDGFA; SCF, FGF19 and PDGFB; SCF, FGF19 and PDGFC; SCF, FGF19 and VEGFA; SCF, FGF19 and VEGFB; SCF, FGF19 and VEGFC; SCF, FGF19 and VEGFD; SCF, FGF19 and TGFB1; SCF, FGF19 and IL-10; SCF, FGF19 and an anti-TNF α antibody; SCF, PDGFA and PDGFB; SCF, PDGFA and PDGFC; SCF, PDGFA and VEGFA; SCF, PDGFA and VEGFB; SCF, PDGFA and VEGFC; SCF, PDGFA and VEGFD; SCF, PDGFA and TGFB1; SCF, PDGFA and IL-10; SCF, PDGFA and an anti-TNF α antibody; SCF, PDGFB and PDGFC; SCF, PDGFB and VEGFA; SCF, PDGFB and VEGFB; SCF, PDGFB and VEGFC; SCF, PDGFB and VEGFD; SCF, PDGFB and TGFB1; SCF, PDGFB and IL-10; SCF, PDGFB and an anti-TNF α antibody; SCF, PDGFC and VEGFA; SCF, PDGFC and VEGFB; SCF, PDGFC and VEGFC; SCF, PDGFC and VEGFD; SCF, PDGFC and TGFB1; SCF, PDGFC and IL-10; SCF, PDGFC and an anti-TNF α antibody; SCF, VEGFA and VEGFB; SCF, VEGFA and VEGFC; SCF, VEGFA and VEGFD; SCF, VEGFA and TGFB1; SCF, VEGFA and IL-10; SCF, VEGFA and an anti-TNF α antibody; SCF, VEGFB and VEGFC; SCF, VEGFB and VEGFD; SCF, VEGFB and TGFB1; SCF, VEGFB and IL-10; SCF, VEGFB and an anti-TNF α antibody; SCF, VEGFC and VEGFD; SCF, VEGFC and TGFB1; SCF, VEGFC and IL-10; SCF, VEGFC and an anti-TNF α antibody; SCF, VEGFD and TGFB1; SCF, VEGFD and IL-10; SCF, VEGFD and an anti-TNF α antibody; SCF, TGFB1 and IL-10; SCF, TGFB1 and an anti-TNF α antibody; SCF, IL-10 and an anti-TNF α antibody; PDGFA, AREG and EREG; PDGFA, AREG and HBEGF; PDGFA, AREG and HGF; PDGFA, AREG and HRGB; PDGFA, AREG and BTC; PDGFA, AREG and EGF; PDGFA, AREG and TGFA; PDGFA, AREG and FGF1; PDGFA, AREG and FGF2; PDGFA, AREG and FGF4; PDGFA, AREG and FGF7; PDGFA, AREG and FGF9; PDGFA, AREG and FGF19; PDGFA, AREG and SCF; PDGFA, AREG and PDGFA; PDGFA, AREG and PDGFB; PDGFA, AREG and PDGFC; PDGFA, AREG and VEGFA; PDGFA, AREG and VEGFB; PDGFA, AREG and VEGFC; PDGFA, AREG and VEGFD; PDGFA, AREG and TGFB1; PDGFA, AREG and IL-10; PDGFA, AREG and an anti-TNF α antibody; PDGFA, EREG and HBEGF; PDGFA, EREG and HGF; PDGFA, EREG and HRGB; PDGFA, EREG and BTC; PDGFA, EREG and EGF; PDGFA, EREG and TGFA; PDGFA, EREG and FGF1; PDGFA, EREG and FGF2; PDGFA, EREG and FGF4;

PDGFA, EREG and FGF7; PDGFA, EREG and FGF9; PDGFA, EREG and FGF19; PDGFA,
 EREG and SCF; PDGFA, EREG and PDGFA; PDGFA, EREG and PDGFB; PDGFA, EREG
 and PDGFC; PDGFA, EREG and VEGFA; PDGFA, EREG and VEGFB; PDGFA, EREG and
 VEGFC; PDGFA, EREG and VEGFD; PDGFA, EREG and TGFB1; PDGFA, EREG and IL-10;
 5 PDGFA, EREG and an anti-TNF α antibody; PDGFA, HBEGF and HGF; PDGFA, HBEGF and
 HRGB; PDGFA, HBEGF and BTC; PDGFA, HBEGF and EGF; PDGFA, HBEGF and TGFA;
 PDGFA, HBEGF and FGF1; PDGFA, HBEGF and FGF2; PDGFA, HBEGF and FGF4;
 PDGFA, HBEGF and FGF7; PDGFA, HBEGF and FGF9; PDGFA, HBEGF and FGF19;
 PDGFA, HBEGF and SCF; PDGFA, HBEGF and PDGFB; PDGFA, HBEGF and PDGFC;
 10 PDGFA, HBEGF and VEGFA; PDGFA, HBEGF and VEGFB; PDGFA, HBEGF and VEGFC;
 PDGFA, HBEGF and VEGFD; PDGFA, HBEGF and TGFB1; PDGFA, HBEGF and IL-10;
 PDGFA, HBEGF and an anti-TNF α antibody; PDGFA, HGF and HRGB; PDGFA, HGF and
 BTC; PDGFA, HGF and EGF; PDGFA, HGF and TGFA; PDGFA, HGF and FGF1; PDGFA,
 HGF and FGF2; PDGFA, HGF and FGF4; PDGFA, HGF and FGF7; PDGFA, HGF and FGF9;
 15 PDGFA, HGF and FGF19; PDGFA, HGF and SCF; PDGFA, HGF and PDGFB; PDGFA, HGF
 and PDGFC; PDGFA, HGF and VEGFA; PDGFA, HGF and VEGFB; PDGFA, HGF and
 VEGFC; PDGFA, HGF and VEGFD; PDGFA, HGF and TGFB1; PDGFA, HGF and IL-10;
 PDGFA, HGF and an anti-TNF α antibody; PDGFA, HRGB and BTC; PDGFA, HRGB and
 EGF; PDGFA, HRGB and TGFA; PDGFA, HRGB and FGF1; PDGFA, HRGB and FGF2;
 20 PDGFA, HRGB and FGF4; PDGFA, HRGB and FGF7; PDGFA, HRGB and FGF9; PDGFA,
 HRGB and FGF19; PDGFA, HRGB and SCF; PDGFA, HRGB and PDGFB; PDGFA, HRGB
 and PDGFC; PDGFA, HRGB and VEGFA; PDGFA, HRGB and VEGFB; PDGFA, HRGB and
 VEGFC; PDGFA, HRGB and VEGFD; PDGFA, HRGB and TGFB1; PDGFA, HRGB and IL-
 10; PDGFA, HRGB and an anti-TNF α antibody; PDGFA, BTC and EGF; PDGFA, BTC and
 25 TGFA; PDGFA, BTC and FGF1; PDGFA, BTC and FGF2; PDGFA, BTC and FGF4; PDGFA,
 BTC and FGF7; PDGFA, BTC and FGF9; PDGFA, BTC and FGF19; PDGFA, BTC and SCF;
 PDGFA, BTC and PDGFB; PDGFA, BTC and PDGFC; PDGFA, BTC and VEGFA; PDGFA,
 BTC and VEGFB; PDGFA, BTC and VEGFC; PDGFA, BTC and VEGFD; PDGFA, BTC and
 TGFB1; PDGFA, BTC and IL-10; PDGFA, BTC and an anti-TNF α antibody; PDGFA, EGF and
 30 TGFA; PDGFA, EGF and FGF1; PDGFA, EGF and FGF2; PDGFA, EGF and FGF4; PDGFA,
 EGF and FGF7; PDGFA, EGF and FGF9; PDGFA, EGF and FGF19; PDGFA, EGF and SCF;

PDGFA, EGF and PDGFB; PDGFA, EGF and PDGFC; PDGFA, EGF and VEGFA; PDGFA,
 EGF and VEGFB; PDGFA, EGF and VEGFC; PDGFA, EGF and VEGFD; PDGFA, EGF and
 TGFB1; PDGFA, EGF and IL-10; PDGFA, EGF and an anti-TNF α antibody; PDGFA, TGFA
 and FGF1; PDGFA, TGFA and FGF2; PDGFA, TGFA and FGF4; PDGFA, TGFA and FGF7;
 5 PDGFA, TGFA and FGF9; PDGFA, TGFA and FGF19; PDGFA, TGFA and SCF; PDGFA,
 TGFA and PDGFB; PDGFA, TGFA and PDGFC; PDGFA, TGFA and VEGFA; PDGFA, TGFA
 and VEGFB; PDGFA, TGFA and VEGFC; PDGFA, TGFA and VEGFD; PDGFA, TGFA and
 TGFB1; PDGFA, TGFA and IL-10; PDGFA, TGFA and an anti-TNF α antibody; PDGFA, FGF1
 and FGF2; PDGFA, FGF1 and FGF4; PDGFA, FGF1 and FGF7; PDGFA, FGF1 and FGF9;
 10 PDGFA, FGF1 and FGF19; PDGFA, FGF1 and SCF; PDGFA, FGF1 and PDGFB; PDGFA,
 FGF1 and PDGFC; PDGFA, FGF1 and VEGFA; PDGFA, FGF1 and VEGFB; PDGFA, FGF1
 and VEGFC; PDGFA, FGF1 and VEGFD; PDGFA, FGF1 and TGFB1; PDGFA, FGF1 and IL-
 10; PDGFA, FGF1 and an anti-TNF α antibody; PDGFA, FGF2 and FGF4; PDGFA, FGF2 and
 FGF7; PDGFA, FGF2 and FGF9; PDGFA, FGF2 and FGF19; PDGFA, FGF2 and SCF;
 15 PDGFA, FGF2 and PDGFB; PDGFA, FGF2 and PDGFC; PDGFA, FGF2 and VEGFA;
 PDGFA, FGF2 and VEGFB; PDGFA, FGF2 and VEGFC; PDGFA, FGF2 and VEGFD;
 PDGFA, FGF2 and TGFB1; PDGFA, FGF2 and IL-10; PDGFA, FGF2 and an anti-TNF α
 antibody; PDGFA, FGF4 and FGF7; PDGFA, FGF4 and FGF9; PDGFA, FGF4 and FGF19;
 PDGFA, FGF4 and SCF; PDGFA, FGF4 and PDGFB; PDGFA, FGF4 and PDGFC; PDGFA,
 20 FGF4 and VEGFA; PDGFA, FGF4 and VEGFB; PDGFA, FGF4 and VEGFC; PDGFA, FGF4
 and VEGFD; PDGFA, FGF4 and TGFB1; PDGFA, FGF4 and IL-10; PDGFA, FGF4 and an
 anti-TNF α antibody; PDGFA, FGF7 and FGF9; PDGFA, FGF7 and FGF19; PDGFA, FGF7 and
 SCF; PDGFA, FGF7 and PDGFB; PDGFA, FGF7 and PDGFC; PDGFA, FGF7 and VEGFA;
 PDGFA, FGF7 and VEGFB; PDGFA, FGF7 and VEGFC; PDGFA, FGF7 and VEGFD;
 25 PDGFA, FGF7 and TGFB1; PDGFA, FGF7 and IL-10; PDGFA, FGF7 and an anti-TNF α
 antibody; PDGFA, FGF9 and FGF19; PDGFA, FGF9 and SCF; PDGFA, FGF9 and PDGFB;
 PDGFA, FGF9 and PDGFC; PDGFA, FGF9 and VEGFA; PDGFA, FGF9 and VEGFB;
 PDGFA, FGF9 and VEGFC; PDGFA, FGF9 and VEGFD; PDGFA, FGF9 and TGFB1; PDGFA,
 FGF9 and IL-10; PDGFA, FGF9 and an anti-TNF α antibody; PDGFA, FGF19 and SCF;
 30 PDGFA, FGF19 and PDGFB; PDGFA, FGF19 and PDGFC; PDGFA, FGF19 and VEGFA;
 PDGFA, FGF19 and VEGFB; PDGFA, FGF19 and VEGFC; PDGFA, FGF19 and VEGFD;

PDGFA, FGF19 and TGFB1; PDGFA, FGF19 and IL-10; PDGFA, FGF19 and an anti-TNF α antibody; PDGFA, SCF and PDGFB; PDGFA, SCF and PDGFC; PDGFA, SCF and VEGFA; PDGFA, SCF and VEGFB; PDGFA, SCF and VEGFC; PDGFA, SCF and VEGFD; PDGFA, SCF and TGFB1; PDGFA, SCF and IL-10; PDGFA, SCF and an anti-TNF α antibody; PDGFA, PDGFB and PDGFC; PDGFA, PDGFB and VEGFA; PDGFA, PDGFB and VEGFB; PDGFA, PDGFB and VEGFC; PDGFA, PDGFB and VEGFD; PDGFA, PDGFB and TGFB1; PDGFA, PDGFB and IL-10; PDGFA, PDGFB and an anti-TNF α antibody; PDGFA, PDGFC and VEGFA; PDGFA, PDGFC and VEGFB; PDGFA, PDGFC and VEGFC; PDGFA, PDGFC and VEGFD; PDGFA, PDGFC and TGFB1; PDGFA, PDGFC and IL-10; PDGFA, PDGFC and an anti-TNF α antibody; PDGFA, VEGFA and VEGFB; PDGFA, VEGFA and VEGFC; PDGFA, VEGFA and VEGFD; PDGFA, VEGFA and TGFB1; PDGFA, VEGFA and IL-10; PDGFA, VEGFA and an anti-TNF α antibody; PDGFA, VEGFB and VEGFC; PDGFA, VEGFB and VEGFD; PDGFA, VEGFB and TGFB1; PDGFA, VEGFB and IL-10; PDGFA, VEGFB and an anti-TNF α antibody; PDGFA, VEGFC and VEGFD; PDGFA, VEGFC and TGFB1; PDGFA, VEGFC and IL-10; PDGFA, VEGFC and an anti-TNF α antibody; PDGFA, VEGFD and TGFB1; PDGFA, VEGFD and IL-10; PDGFA, VEGFD and an anti-TNF α antibody; PDGFA, TGFB1 and IL-10; PDGFA, TGFB1 and an anti-TNF α antibody; PDGFA, IL-10 and an anti-TNF α antibody; PDGFB, AREG and EREG; PDGFB, AREG and HBEGF; PDGFB, AREG and HGF; PDGFB, AREG and HRGB; PDGFB, AREG and BTC; PDGFB, AREG and EGF; PDGFB, AREG and TGFA; PDGFB, AREG and FGF1; PDGFB, AREG and FGF2; PDGFB, AREG and FGF4; PDGFB, AREG and FGF7; PDGFB, AREG and FGF9; PDGFB, AREG and FGF19; PDGFB, AREG and SCF; PDGFB, AREG and PDGFA; PDGFB, AREG and PDGFC; PDGFB, AREG and VEGFA; PDGFB, AREG and VEGFB; PDGFB, AREG and VEGFC; PDGFB, AREG and VEGFD; PDGFB, AREG and TGFB1; PDGFB, AREG and IL-10; PDGFB, AREG and an anti-TNF α antibody; PDGFB, EREG and HBEGF; PDGFB, EREG and HGF; PDGFB, EREG and HRGB; PDGFB, EREG and BTC; PDGFB, EREG and EGF; PDGFB, EREG and TGFA; PDGFB, EREG and FGF1; PDGFB, EREG and FGF2; PDGFB, EREG and FGF4; PDGFB, EREG and FGF7; PDGFB, EREG and FGF9; PDGFB, EREG and FGF19; PDGFB, EREG and SCF; PDGFB, EREG and PDGFA; PDGFB, EREG and PDGFC; PDGFB, EREG and VEGFA; PDGFB, EREG and VEGFB; PDGFB, EREG and VEGFC; PDGFB, EREG and VEGFD; PDGFB, EREG and TGFB1; PDGFB, EREG and IL-10; PDGFB, EREG and an

anti-TNF α antibody; PDGFB, HBEGF and HGF; PDGFB, HBEGF and HRGB; PDGFB,
 HBEGF and BTC; PDGFB, HBEGF and EGF; PDGFB, HBEGF and TGFA; PDGFB, HBEGF
 and FGF1; PDGFB, HBEGF and FGF2; PDGFB, HBEGF and FGF4; PDGFB, HBEGF and
 FGF7; PDGFB, HBEGF and FGF9; PDGFB, HBEGF and FGF19; PDGFB, HBEGF and SCF;
 5 PDGFB, HBEGF and PDGFA; PDGFB, HBEGF and PDGFC; PDGFB, HBEGF and VEGFA;
 PDGFB, HBEGF and VEGFB; PDGFB, HBEGF and VEGFC; PDGFB, HBEGF and VEGFD;
 PDGFB, HBEGF and TGFB1; PDGFB, HBEGF and IL-10; PDGFB, HBEGF and an anti-TNF α
 antibody; PDGFB, HGF and HRGB; PDGFB, HGF and BTC; PDGFB, HGF and EGF; PDGFB,
 HGF and TGFA; PDGFB, HGF and FGF1; PDGFB, HGF and FGF2; PDGFB, HGF and FGF4;
 10 PDGFB, HGF and FGF7; PDGFB, HGF and FGF9; PDGFB, HGF and FGF19; PDGFB, HGF
 and SCF; PDGFB, HGF and PDGFA; PDGFB, HGF and PDGFC; PDGFB, HGF and VEGFA;
 PDGFB, HGF and VEGFB; PDGFB, HGF and VEGFC; PDGFB, HGF and VEGFD; PDGFB,
 HGF and TGFB1; PDGFB, HGF and IL-10; PDGFB, HGF and an anti-TNF α antibody; PDGFB,
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 15 FGF1; PDGFB, HRGB and FGF2; PDGFB, HRGB and FGF4; PDGFB, HRGB and FGF7;
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 HRGB and PDGFA; PDGFB, HRGB and PDGFC; PDGFB, HRGB and VEGFA; PDGFB,
 HRGB and VEGFB; PDGFB, HRGB and VEGFC; PDGFB, HRGB and VEGFD; PDGFB,
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 20 PDGFB, BTC and EGF; PDGFB, BTC and TGFA; PDGFB, BTC and FGF1; PDGFB, BTC and
 FGF2; PDGFB, BTC and FGF4; PDGFB, BTC and FGF7; PDGFB, BTC and FGF9; PDGFB,
 BTC and FGF19; PDGFB, BTC and SCF; PDGFB, BTC and PDGFA; PDGFB, BTC and
 PDGFC; PDGFB, BTC and VEGFA; PDGFB, BTC and VEGFB; PDGFB, BTC and VEGFC;
 PDGFB, BTC and VEGFD; PDGFB, BTC and TGFB1; PDGFB, BTC and IL-10; PDGFB, BTC
 25 and an anti-TNF α antibody; PDGFB, EGF and TGFA; PDGFB, EGF and FGF1; PDGFB, EGF
 and FGF2; PDGFB, EGF and FGF4; PDGFB, EGF and FGF7; PDGFB, EGF and FGF9;
 PDGFB, EGF and FGF19; PDGFB, EGF and SCF; PDGFB, EGF and PDGFA; PDGFB, EGF
 and PDGFB; PDGFB, EGF and PDGFC; PDGFB, EGF and VEGFA; PDGFB, EGF and
 VEGFB; PDGFB, EGF and VEGFC; PDGFB, EGF and VEGFD; PDGFB, EGF and TGFB1;
 30 PDGFB, EGF and IL-10; PDGFB, EGF and an anti-TNF α antibody; PDGFB, TGFA and FGF1;
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TGFA and FGF9; PDGFB, TGFA and FGF19; PDGFB, TGFA and SCF; PDGFB, TGFA and
 PDGFA; PDGFB, TGFA and PDGFC; PDGFB, TGFA and VEGFA; PDGFB, TGFA and
 VEGFB; PDGFB, TGFA and VEGFC; PDGFB, TGFA and VEGFD; PDGFB, TGFA and
 TGFB1; PDGFB, TGFA and IL-10; PDGFB, TGFA and an anti-TNF α antibody; PDGFB, FGF1
 5 and FGF2; PDGFB, FGF1 and FGF4; PDGFB, FGF1 and FGF7; PDGFB, FGF1 and FGF9;
 PDGFB, FGF1 and FGF19; PDGFB, FGF1 and SCF; PDGFB, FGF1 and PDGFA; PDGFB,
 FGF1 and PDGFC; PDGFB, FGF1 and VEGFA; PDGFB, FGF1 and VEGFB; PDGFB, FGF1
 and VEGFC; PDGFB, FGF1 and VEGFD; PDGFB, FGF1 and TGFB1; PDGFB, FGF1 and IL-
 10; PDGFB, FGF1 and an anti-TNF α antibody; PDGFB, FGF2 and FGF4; PDGFB, FGF2 and
 10 FGF7; PDGFB, FGF2 and FGF9; PDGFB, FGF2 and FGF19; PDGFB, FGF2 and SCF; PDGFB,
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 and VEGFB; PDGFB, FGF2 and VEGFC; PDGFB, FGF2 and VEGFD; PDGFB, FGF2 and
 TGFB1; PDGFB, FGF2 and IL-10; PDGFB, FGF2 and an anti-TNF α antibody; PDGFB, FGF4
 and FGF7; PDGFB, FGF4 and FGF9; PDGFB, FGF4 and FGF19; PDGFB, FGF4 and SCF;
 15 PDGFB, FGF4 and PDGFA; PDGFB, FGF4 and PDGFB; PDGFB, FGF4 and PDGFC; PDGFB,
 FGF4 and VEGFA; PDGFB, FGF4 and VEGFB; PDGFB, FGF4 and VEGFC; PDGFB, FGF4
 and VEGFD; PDGFB, FGF4 and TGFB1; PDGFB, FGF4 and IL-10; PDGFB, FGF4 and an anti-
 TNF α antibody; PDGFB, FGF7 and FGF9; PDGFB, FGF7 and FGF19; PDGFB, FGF7 and SCF;
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 20 FGF7 and VEGFA; PDGFB, FGF7 and VEGFB; PDGFB, FGF7 and VEGFC; PDGFB, FGF7
 and VEGFD; PDGFB, FGF7 and TGFB1; PDGFB, FGF7 and IL-10; PDGFB, FGF7 and an anti-
 TNF α antibody; PDGFB, FGF9 and FGF19; PDGFB, FGF9 and SCF; PDGFB, FGF9 and
 PDGFA; PDGFB, FGF9 and PDGFC; PDGFB, FGF9 and VEGFA; PDGFB, FGF9 and VEGFB;
 PDGFB, FGF9 and VEGFC; PDGFB, FGF9 and VEGFD; PDGFB, FGF9 and TGFB1; PDGFB,
 25 FGF9 and IL-10; PDGFB, FGF9 and an anti-TNF α antibody; PDGFB, FGF19 and SCF;
 PDGFB, FGF19 and PDGFA; PDGFB, FGF19 and PDGFB; PDGFB, FGF19 and PDGFC;
 PDGFB, FGF19 and VEGFA; PDGFB, FGF19 and VEGFB; PDGFB, FGF19 and VEGFC;
 PDGFB, FGF19 and VEGFD; PDGFB, FGF19 and TGFB1; PDGFB, FGF19 and IL-10;
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 30 PDGFB, SCF and VEGFA; PDGFB, SCF and VEGFB; PDGFB, SCF and VEGFC; PDGFB,
 SCF and VEGFD; PDGFB, SCF and TGFB1; PDGFB, SCF and IL-10; PDGFB, SCF and an

anti-TNF α antibody; PDGFB, PDGFA and PDGFC; PDGFB, PDGFA and VEGFA; PDGFB,
 PDGFA and VEGFB; PDGFB, PDGFA and VEGFC; PDGFB, PDGFA and VEGFD; PDGFB,
 PDGFA and TGFB1; PDGFB, PDGFA and IL-10; PDGFB, PDGFA and an anti-TNF α antibody;
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 5 PDGFB, PDGFC and VEGFD; PDGFB, PDGFC and TGFB1; PDGFB, PDGFC and IL-10;
 PDGFB, PDGFC and an anti-TNF α antibody; PDGFB, VEGFA and VEGFB; PDGFB, VEGFA
 and VEGFC; PDGFB, VEGFA and VEGFD; PDGFB, VEGFA and TGFB1; PDGFB, VEGFA
 and IL-10; PDGFB, VEGFA and an anti-TNF α antibody; PDGFB, VEGFB and VEGFC;
 PDGFB, VEGFB and VEGFD; PDGFB, VEGFB and TGFB1; PDGFB, VEGFB and IL-10;
 10 PDGFB, VEGFB and an anti-TNF α antibody; PDGFB, VEGFC and VEGFD; PDGFB, VEGFC
 and TGFB1; PDGFB, VEGFC and IL-10; PDGFB, VEGFC and an anti-TNF α antibody;
 PDGFB, VEGFD and TGFB1; PDGFB, VEGFD and IL-10; PDGFB, VEGFD and an anti-TNF α
 antibody; PDGFB, TGFB1 and IL-10; PDGFB, TGFB1 and an anti-TNF α antibody; PDGFB, IL-
 10 and an anti-TNF α antibody; PDGFC, AREG and EREG; PDGFC, AREG and HBEGF;
 15 PDGFC, AREG and HGF; PDGFC, AREG and HRGB; PDGFC, AREG and BTC; PDGFC,
 AREG and EGF; PDGFC, AREG and TGFA; PDGFC, AREG and FGF1; PDGFC, AREG and
 FGF2; PDGFC, AREG and FGF4; PDGFC, AREG and FGF7; PDGFC, AREG and FGF9;
 PDGFC, AREG and FGF19; PDGFC, AREG and SCF; PDGFC, AREG and PDGFA; PDGFC,
 AREG and PDGFB; PDGFC, AREG and PDGFC; PDGFC, AREG and VEGFA; PDGFC,
 20 AREG and VEGFB; PDGFC, AREG and VEGFC; PDGFC, AREG and VEGFD; PDGFC,
 AREG and TGFB1; PDGFC, AREG and IL-10; PDGFC, AREG and an anti-TNF α antibody;
 PDGFC, EREG and HBEGF; PDGFC, EREG and HGF; PDGFC, EREG and HRGB; PDGFC,
 EREG and BTC; PDGFC, EREG and EGF; PDGFC, EREG and TGFA; PDGFC, EREG and
 FGF1; PDGFC, EREG and FGF2; PDGFC, EREG and FGF4; PDGFC, EREG and FGF7;
 25 PDGFC, EREG and FGF9; PDGFC, EREG and FGF19; PDGFC, EREG and SCF; PDGFC,
 EREG and PDGFA; PDGFC, EREG and PDGFB; PDGFC, EREG and VEGFA; PDGFC, EREG
 and VEGFB; PDGFC, EREG and VEGFC; PDGFC, EREG and VEGFD; PDGFC, EREG and
 TGFB1; PDGFC, EREG and IL-10; PDGFC, EREG and an anti-TNF α antibody; PDGFC,
 HBEGF and HGF; PDGFC, HBEGF and HRGB; PDGFC, HBEGF and BTC; PDGFC, HBEGF
 30 and EGF; PDGFC, HBEGF and TGFA; PDGFC, HBEGF and FGF1; PDGFC, HBEGF and
 FGF2; PDGFC, HBEGF and FGF4; PDGFC, HBEGF and FGF7; PDGFC, HBEGF and FGF9;

PDGFC, HBEGF and FGF19; PDGFC, HBEGF and SCF; PDGFC, HBEGF and PDGFA;
 PDGFC, HBEGF and PDGFB; PDGFC, HBEGF and VEGFA; PDGFC, HBEGF and VEGFB;
 PDGFC, HBEGF and VEGFC; PDGFC, HBEGF and VEGFD; PDGFC, HBEGF and TGFB1;
 PDGFC, HBEGF and IL-10; PDGFC, HBEGF and an anti-TNF α antibody; PDGFC, HGF and
 5 HRGB; PDGFC, HGF and BTC; PDGFC, HGF and EGF; PDGFC, HGF and TGFA; PDGFC,
 HGF and FGF1; PDGFC, HGF and FGF2; PDGFC, HGF and FGF4; PDGFC, HGF and FGF7;
 PDGFC, HGF and FGF9; PDGFC, HGF and FGF19; PDGFC, HGF and SCF; PDGFC, HGF and
 PDGFA; PDGFC, HGF and PDGFB; PDGFC, HGF and VEGFA; PDGFC, HGF and VEGFB;
 PDGFC, HGF and VEGFC; PDGFC, HGF and VEGFD; PDGFC, HGF and TGFB1; PDGFC,
 10 HGF and IL-10; PDGFC, HGF and an anti-TNF α antibody; PDGFC, HRGB and BTC; PDGFC,
 HRGB and EGF; PDGFC, HRGB and TGFA; PDGFC, HRGB and FGF1; PDGFC, HRGB and
 FGF2; PDGFC, HRGB and FGF4; PDGFC, HRGB and FGF7; PDGFC, HRGB and FGF9;
 PDGFC, HRGB and FGF19; PDGFC, HRGB and SCF; PDGFC, HRGB and PDGFA; PDGFC,
 HRGB and PDGFB; PDGFC, HRGB and VEGFA; PDGFC, HRGB and VEGFB; PDGFC,
 15 HRGB and VEGFC; PDGFC, HRGB and VEGFD; PDGFC, HRGB and TGFB1; PDGFC,
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 PDGFC, BTC and TGFA; PDGFC, BTC and FGF1; PDGFC, BTC and FGF2; PDGFC, BTC
 and FGF4; PDGFC, BTC and FGF7; PDGFC, BTC and FGF9; PDGFC, BTC and FGF19;
 PDGFC, BTC and SCF; PDGFC, BTC and PDGFA; PDGFC, BTC and PDGFB; PDGFC, BTC
 20 and VEGFA; PDGFC, BTC and VEGFB; PDGFC, BTC and VEGFC; PDGFC, BTC and
 VEGFD; PDGFC, BTC and TGFB1; PDGFC, BTC and IL-10; PDGFC, BTC and an anti-TNF α
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 FGF19; PDGFC, EGF and SCF; PDGFC, EGF and PDGFA; PDGFC, EGF and PDGFB;
 25 PDGFC, EGF and VEGFA; PDGFC, EGF and VEGFB; PDGFC, EGF and VEGFC; PDGFC,
 EGF and VEGFD; PDGFC, EGF and TGFB1; PDGFC, EGF and IL-10; PDGFC, EGF and an
 anti-TNF α antibody; PDGFC, TGFA and FGF1; PDGFC, TGFA and FGF2; PDGFC, TGFA and
 FGF4; PDGFC, TGFA and FGF7; PDGFC, TGFA and FGF9; PDGFC, TGFA and FGF19;
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 30 TGFA and VEGFA; PDGFC, TGFA and VEGFB; PDGFC, TGFA and VEGFC; PDGFC, TGFA
 and VEGFD; PDGFC, TGFA and TGFB1; PDGFC, TGFA and IL-10; PDGFC, TGFA and an

anti-TNF α antibody; PDGFC, FGF1 and FGF2; PDGFC, FGF1 and FGF4; PDGFC, FGF1 and
 FGF7; PDGFC, FGF1 and FGF9; PDGFC, FGF1 and FGF19; PDGFC, FGF1 and SCF; PDGFC,
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 and VEGFB; PDGFC, FGF1 and VEGFC; PDGFC, FGF1 and VEGFD; PDGFC, FGF1 and
 5 TGFB1; PDGFC, FGF1 and IL-10; PDGFC, FGF1 and an anti-TNF α antibody; PDGFC, FGF2
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 10 TNF α antibody; PDGFC, FGF4 and FGF7; PDGFC, FGF4 and FGF9; PDGFC, FGF4 and
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 PDGFC, FGF4 and VEGFA; PDGFC, FGF4 and VEGFB; PDGFC, FGF4 and VEGFC; PDGFC,
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 15 and SCF; PDGFC, FGF7 and PDGFA; PDGFC, FGF7 and PDGFB; PDGFC, FGF7 and
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 TNF α antibody; PDGFC, FGF9 and FGF19; PDGFC, FGF9 and SCF; PDGFC, FGF9 and
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 20 PDGFC, FGF9 and VEGFC; PDGFC, FGF9 and VEGFD; PDGFC, FGF9 and TGFB1; PDGFC,
 FGF9 and IL-10; PDGFC, FGF9 and an anti-TNF α antibody; PDGFC, FGF19 and SCF;
 PDGFC, FGF19 and PDGFA; PDGFC, FGF19 and PDGFB; PDGFC, FGF19 and VEGFA;
 PDGFC, FGF19 and VEGFB; PDGFC, FGF19 and VEGFC; PDGFC, FGF19 and VEGFD;
 PDGFC, FGF19 and TGFB1; PDGFC, FGF19 and IL-10; PDGFC, FGF19 and an anti-TNF α
 25 antibody; PDGFC, SCF and PDGFA; PDGFC, SCF and PDGFB; PDGFC, SCF and VEGFA;
 PDGFC, SCF and VEGFB; PDGFC, SCF and VEGFC; PDGFC, SCF and VEGFD; PDGFC,
 SCF and TGFB1; PDGFC, SCF and IL-10; PDGFC, SCF and an anti-TNF α antibody; PDGFC,
 PDGFA and PDGFB; PDGFC, PDGFA and VEGFA; PDGFC, PDGFA and VEGFB; PDGFC,
 PDGFA and VEGFC; PDGFC, PDGFA and VEGFD; PDGFC, PDGFA and TGFB1; PDGFC,
 30 PDGFA and IL-10; PDGFC, PDGFA and an anti-TNF α antibody; PDGFC, PDGFB and
 VEGFA; PDGFC, PDGFB and VEGFB; PDGFC, PDGFB and VEGFC; PDGFC, PDGFB and

VEGFD; PDGFC, PDGFB and TGFB1; PDGFC, PDGFB and IL-10; PDGFC, PDGFB and an
 anti-TNF α antibody; PDGFC, VEGFA and VEGFB; PDGFC, VEGFA and VEGFC; PDGFC,
 VEGFA and VEGFD; PDGFC, VEGFA and TGFB1; PDGFC, VEGFA and IL-10; PDGFC,
 VEGFA and an anti-TNF α antibody; PDGFC, VEGFB and VEGFC; PDGFC, VEGFB and
 5 VEGFD; PDGFC, VEGFB and TGFB1; PDGFC, VEGFB and IL-10; PDGFC, VEGFB and an
 anti-TNF α antibody; PDGFC, VEGFC and VEGFD; PDGFC, VEGFC and TGFB1; PDGFC,
 VEGFC and IL-10; PDGFC, VEGFC and an anti-TNF α antibody; PDGFC, VEGFD and
 TGFB1; PDGFC, VEGFD and IL-10; PDGFC, VEGFD and an anti-TNF α antibody; PDGFC,
 TGFB1 and IL-10; PDGFC, TGFB1 and an anti-TNF α antibody; PDGFC, IL-10 and an anti-
 10 TNF α antibody; VEGFA, AREG and EREG; VEGFA, AREG and HBEGF; VEGFA, AREG and
 HGF; VEGFA, AREG and HRGB; VEGFA, AREG and BTC; VEGFA, AREG and EGF;
 VEGFA, AREG and TGFA; VEGFA, AREG and FGF1; VEGFA, AREG and FGF2; VEGFA,
 AREG and FGF4; VEGFA, AREG and FGF7; VEGFA, AREG and FGF9; VEGFA, AREG and
 FGF19; VEGFA, AREG and SCF; VEGFA, AREG and PDGFA; VEGFA, AREG and PDGFB;
 15 VEGFA, AREG and PDGFC; VEGFA, AREG and VEGFA; VEGFA, AREG and VEGFB;
 VEGFA, AREG and VEGFC; VEGFA, AREG and VEGFD; VEGFA, AREG and TGFB1;
 VEGFA, AREG and IL-10; VEGFA, AREG and an anti-TNF α antibody; VEGFA, EREG and
 HBEGF; VEGFA, EREG and HGF; VEGFA, EREG and HRGB; VEGFA, EREG and BTC;
 VEGFA, EREG and EGF; VEGFA, EREG and TGFA; VEGFA, EREG and FGF1; VEGFA,
 20 EREG and FGF2; VEGFA, EREG and FGF4; VEGFA, EREG and FGF7; VEGFA, EREG and
 FGF9; VEGFA, EREG and FGF19; VEGFA, EREG and SCF; VEGFA, EREG and PDGFA;
 VEGFA, EREG and PDGFB; VEGFA, EREG and PDGFC; VEGFA, EREG and VEGFB;
 VEGFA, EREG and VEGFC; VEGFA, EREG and VEGFD; VEGFA, EREG and TGFB1;
 VEGFA, EREG and IL-10; VEGFA, EREG and an anti-TNF α antibody; VEGFA, HBEGF and
 25 HGF; VEGFA, HBEGF and HRGB; VEGFA, HBEGF and BTC; VEGFA, HBEGF and EGF;
 VEGFA, HBEGF and TGFA; VEGFA, HBEGF and FGF1; VEGFA, HBEGF and FGF2;
 VEGFA, HBEGF and FGF4; VEGFA, HBEGF and FGF7; VEGFA, HBEGF and FGF9;
 VEGFA, HBEGF and FGF19; VEGFA, HBEGF and SCF; VEGFA, HBEGF and PDGFA;
 VEGFA, HBEGF and PDGFB; VEGFA, HBEGF and PDGFC; VEGFA, HBEGF and VEGFB;
 30 VEGFA, HBEGF and VEGFC; VEGFA, HBEGF and VEGFD; VEGFA, HBEGF and TGFB1;
 VEGFA, HBEGF and IL-10; VEGFA, HBEGF and an anti-TNF α antibody; VEGFA, HGF and

HRGB; VEGFA, HGF and BTC; VEGFA, HGF and EGF; VEGFA, HGF and TGFA; VEGFA,
 HGF and FGF1; VEGFA, HGF and FGF2; VEGFA, HGF and FGF4; VEGFA, HGF and FGF7;
 VEGFA, HGF and FGF9; VEGFA, HGF and FGF19; VEGFA, HGF and SCF; VEGFA, HGF
 and PDGFA; VEGFA, HGF and PDGFB; VEGFA, HGF and PDGFC; VEGFA, HGF and
 5 VEGFB; VEGFA, HGF and VEGFC; VEGFA, HGF and VEGFD; VEGFA, HGF and TGFB1;
 VEGFA, HGF and IL-10; VEGFA, HGF and an anti-TNF α antibody; VEGFA, HRGB and
 BTC; VEGFA, HRGB and EGF; VEGFA, HRGB and TGFA; VEGFA, HRGB and FGF1;
 VEGFA, HRGB and FGF2; VEGFA, HRGB and FGF4; VEGFA, HRGB and FGF7; VEGFA,
 HRGB and FGF9; VEGFA, HRGB and FGF19; VEGFA, HRGB and SCF; VEGFA, HRGB and
 10 PDGFA; VEGFA, HRGB and PDGFB; VEGFA, HRGB and PDGFC; VEGFA, HRGB and
 VEGFB; VEGFA, HRGB and VEGFC; VEGFA, HRGB and VEGFD; VEGFA, HRGB and
 TGFB1; VEGFA, HRGB and IL-10; VEGFA, HRGB and an anti-TNF α antibody; VEGFA, BTC
 and EGF; VEGFA, BTC and TGFA; VEGFA, BTC and FGF1; VEGFA, BTC and FGF2;
 VEGFA, BTC and FGF4; VEGFA, BTC and FGF7; VEGFA, BTC and FGF9; VEGFA, BTC
 15 and FGF19; VEGFA, BTC and SCF; VEGFA, BTC and PDGFA; VEGFA, BTC and PDGFB;
 VEGFA, BTC and PDGFC; VEGFA, BTC and VEGFB; VEGFA, BTC and VEGFC; VEGFA,
 BTC and VEGFD; VEGFA, BTC and TGFB1; VEGFA, BTC and IL-10; VEGFA, BTC and an
 anti-TNF α antibody; VEGFA, EGF and TGFA; VEGFA, EGF and FGF1; VEGFA, EGF and
 FGF2; VEGFA, EGF and FGF4; VEGFA, EGF and FGF7; VEGFA, EGF and FGF9; VEGFA,
 20 EGF and FGF19; VEGFA, EGF and SCF; VEGFA, EGF and PDGFA; VEGFA, EGF and
 PDGFB; VEGFA, EGF and PDGFC; VEGFA, EGF and VEGFB; VEGFA, EGF and VEGFC;
 VEGFA, EGF and VEGFD; VEGFA, EGF and TGFB1; VEGFA, EGF and IL-10; VEGFA, EGF
 and an anti-TNF α antibody; VEGFA, TGFA and FGF1; VEGFA, TGFA and FGF2; VEGFA,
 TGFA and FGF4; VEGFA, TGFA and FGF7; VEGFA, TGFA and FGF9; VEGFA, TGFA and
 25 FGF19; VEGFA, TGFA and SCF; VEGFA, TGFA and PDGFA; VEGFA, TGFA and PDGFB;
 VEGFA, TGFA and PDGFC; VEGFA, TGFA and VEGFB; VEGFA, TGFA and VEGFC;
 VEGFA, TGFA and VEGFD; VEGFA, TGFA and TGFB1; VEGFA, TGFA and IL-10; VEGFA,
 TGFA and an anti-TNF α antibody; VEGFA, FGF1 and FGF2; VEGFA, FGF1 and FGF4;
 VEGFA, FGF1 and FGF7; VEGFA, FGF1 and FGF9; VEGFA, FGF1 and FGF19; VEGFA,
 30 FGF1 and SCF; VEGFA, FGF1 and PDGFA; VEGFA, FGF1 and PDGFB; VEGFA, FGF1 and
 PDGFC; VEGFA, FGF1 and VEGFB; VEGFA, FGF1 and VEGFC; VEGFA, FGF1 and

VEGFD; VEGFA, FGF1 and TGFB1; VEGFA, FGF1 and IL-10; VEGFA, FGF1 and an anti-TNF α antibody; VEGFA, FGF2 and FGF4; VEGFA, FGF2 and FGF7; VEGFA, FGF2 and FGF9; VEGFA, FGF2 and FGF19; VEGFA, FGF2 and SCF; VEGFA, FGF2 and PDGFA; VEGFA, FGF2 and PDGFB; VEGFA, FGF2 and PDGFC; VEGFA, FGF2 and VEGFB;

5 VEGFA, FGF2 and VEGFC; VEGFA, FGF2 and VEGFD; VEGFA, FGF2 and TGFB1; VEGFA, FGF2 and IL-10; VEGFA, FGF2 and an anti-TNF α antibody; VEGFA, FGF4 and FGF7; VEGFA, FGF4 and FGF9; VEGFA, FGF4 and FGF19; VEGFA, FGF4 and SCF; VEGFA, FGF4 and PDGFA; VEGFA, FGF4 and PDGFB; VEGFA, FGF4 and PDGFC; VEGFA, FGF4 and VEGFB; VEGFA, FGF4 and VEGFC; VEGFA, FGF4 and VEGFD;

10 VEGFA, FGF4 and TGFB1; VEGFA, FGF4 and IL-10; VEGFA, FGF4 and an anti-TNF α antibody; VEGFA, FGF7 and FGF9; VEGFA, FGF7 and FGF19; VEGFA, FGF7 and SCF; VEGFA, FGF7 and PDGFA; VEGFA, FGF7 and PDGFB; VEGFA, FGF7 and PDGFC; VEGFA, FGF7 and VEGFB; VEGFA, FGF7 and VEGFC; VEGFA, FGF7 and VEGFD; VEGFA, FGF7 and TGFB1; VEGFA, FGF7 and IL-10; VEGFA, FGF7 and an anti-TNF α

15 antibody; VEGFA, FGF9 and FGF19; VEGFA, FGF9 and SCF; VEGFA, FGF9 and PDGFA; VEGFA, FGF9 and PDGFB; VEGFA, FGF9 and PDGFC VEGFA, FGF9 and VEGFB; VEGFA, FGF9 and VEGFC; VEGFA, FGF9 and VEGFD; VEGFA, FGF9 and TGFB1; VEGFA, FGF9 and IL-10; VEGFA, FGF9 and an anti-TNF α antibody; VEGFA, FGF19 and SCF; VEGFA, FGF19 and PDGFA; VEGFA, FGF19 and PDGFB; VEGFA, FGF19 and PDGFC; VEGFA,

20 FGF19 and VEGFB; VEGFA, FGF19 and VEGFC; VEGFA, FGF19 and VEGFD; VEGFA, FGF19 and TGFB1; VEGFA, FGF19 and IL-10; VEGFA, FGF19 and an anti-TNF α antibody; VEGFA, SCF and PDGFA; VEGFA, SCF and PDGFB; VEGFA, SCF and PDGFC; VEGFA, SCF and VEGFB; VEGFA, SCF and VEGFC; VEGFA, SCF and VEGFD; VEGFA, SCF and TGFB1; VEGFA, SCF and IL-10; VEGFA, SCF and an anti-TNF α antibody; VEGFA, PDGFA

25 and PDGFB; VEGFA, PDGFA and PDGFC; VEGFA, PDGFA and VEGFB; VEGFA, PDGFA and VEGFC; VEGFA, PDGFA and VEGFD; VEGFA, PDGFA and TGFB1; VEGFA, PDGFA and IL-10; VEGFA, PDGFA and an anti-TNF α antibody; VEGFA, PDGFB and PDGFC; VEGFA, PDGFB and VEGFB; VEGFA, PDGFB and VEGFC; VEGFA, PDGFB and VEGFD; VEGFA, PDGFB and TGFB1; VEGFA, PDGFB and IL-10; VEGFA, PDGFB and an anti-TNF α

30 antibody; VEGFA, PDGFC and VEGFB; VEGFA, PDGFC and VEGFC; VEGFA, PDGFC and VEGFD; VEGFA, PDGFC and TGFB1; VEGFA, PDGFC and IL-10; VEGFA, PDGFC and an

anti-TNF α antibody; VEGFA, VEGFB and VEGFC; VEGFA, VEGFB and VEGFD; VEGFA,
 VEGFB and TGFB1; VEGFA, VEGFB and IL-10; VEGFA, VEGFB and an anti-TNF α
 antibody; VEGFA, VEGFC and VEGFD; VEGFA, VEGFC and TGFB1; VEGFA, VEGFC and
 IL-10; VEGFA, VEGFC and an anti-TNF α antibody; VEGFA, VEGFD and TGFB1; VEGFA,
 5 VEGFD and IL-10; VEGFA, VEGFD and an anti-TNF α antibody; VEGFA, TGFB1 and IL-10;
 VEGFA, TGFB1 and an anti-TNF α antibody; VEGFA, IL-10 and an anti-TNF α antibody;
 VEGFB, AREG and EREG; VEGFB, AREG and HBEGF; VEGFB, AREG and HGF; VEGFB,
 AREG and HRGB; VEGFB, AREG and BTC; VEGFB, AREG and EGF; VEGFB, AREG and
 TGFA; VEGFB, AREG and FGF1; VEGFB, AREG and FGF2; VEGFB, AREG and FGF4;
 10 VEGFB, AREG and FGF7; VEGFB, AREG and FGF9; VEGFB, AREG and FGF19; VEGFB,
 AREG and SCF; VEGFB, AREG and PDGFA; VEGFB, AREG and PDGFB; VEGFB, AREG
 and PDGFC; VEGFB, AREG and VEGFA; VEGFB, AREG and VEGFB; VEGFB, AREG and
 VEGFC; VEGFB, AREG and VEGFD; VEGFB, AREG and TGFB1; VEGFB, AREG and IL-
 10; VEGFB, AREG and an anti-TNF α antibody; VEGFB, EREG and HBEGF; VEGFB, EREG
 15 and HGF; VEGFB, EREG and HRGB; VEGFB, EREG and BTC; VEGFB, EREG and EGF;
 VEGFB, EREG and TGFA; VEGFB, EREG and FGF1; VEGFB, EREG and FGF2; VEGFB,
 EREG and FGF4; VEGFB, EREG and FGF7; VEGFB, EREG and FGF9; VEGFB, EREG and
 FGF19; VEGFB, EREG and SCF; VEGFB, EREG and PDGFA; VEGFB, EREG and PDGFB;
 VEGFB, EREG and PDGFC; VEGFB, EREG and VEGFA; VEGFB, EREG and VEGFC;
 20 VEGFB, EREG and VEGFD; VEGFB, EREG and TGFB1; VEGFB, EREG and IL-10; VEGFB,
 EREG and an anti-TNF α antibody; VEGFB, HBEGF and HGF; VEGFB, HBEGF and HRGB;
 VEGFB, HBEGF and BTC; VEGFB, HBEGF and EGF; VEGFB, HBEGF and TGFA; VEGFB,
 HBEGF and FGF1; VEGFB, HBEGF and FGF2; VEGFB, HBEGF and FGF4; VEGFB, HBEGF
 and FGF7; VEGFB, HBEGF and FGF9; VEGFB, HBEGF and FGF19; VEGFB, HBEGF and
 25 SCF; VEGFB, HBEGF and PDGFA; VEGFB, HBEGF and PDGFB; VEGFB, HBEGF and
 PDGFC; VEGFB, HBEGF and VEGFA; VEGFB, HBEGF and VEGFC; VEGFB, HBEGF and
 VEGFD; VEGFB, HBEGF and TGFB1; VEGFB, HBEGF and IL-10; VEGFB, HBEGF and an
 anti-TNF α antibody; VEGFB, HGF and HRGB; VEGFB, HGF and BTC; VEGFB, HGF and
 EGF; VEGFB, HGF and TGFA; VEGFB, HGF and FGF1; VEGFB, HGF and FGF2; VEGFB,
 30 HGF and FGF4; VEGFB, HGF and FGF7; VEGFB, HGF and FGF9; VEGFB, HGF and FGF19;
 VEGFB, HGF and SCF; VEGFB, HGF and PDGFA; VEGFB, HGF and PDGFB; VEGFB, HGF

and PDGFC; VEGFB, HGF and VEGFA; VEGFB, HGF and VEGFC; VEGFB, HGF and VEGFD; VEGFB, HGF and TGFB1; VEGFB, HGF and IL-10; VEGFB, HGF and an anti-TNF α antibody; VEGFB, HRGB and BTC; VEGFB, HRGB and EGF; VEGFB, HRGB and TGFA; VEGFB, HRGB and FGF1; VEGFB, HRGB and FGF2; VEGFB, HRGB and FGF4; VEGFB, HRGB and FGF7; VEGFB, HRGB and FGF9; VEGFB, HRGB and FGF19; VEGFB, HRGB and SCF; VEGFB, HRGB and PDGFA; VEGFB, HRGB and PDGFB; VEGFB, HRGB and PDGFC; VEGFB, HRGB and VEGFA; VEGFB, HRGB and VEGFC; VEGFB, HRGB and VEGFD; VEGFB, HRGB and TGFB1; VEGFB, HRGB and IL-10; VEGFB, HRGB and an anti-TNF α antibody; VEGFB, BTC and EGF; VEGFB, BTC and TGFA; VEGFB, BTC and FGF1; VEGFB, BTC and FGF2; VEGFB, BTC and FGF4; VEGFB, BTC and FGF7; VEGFB, BTC and FGF9; VEGFB, BTC and FGF19; VEGFB, BTC and SCF; VEGFB, BTC and PDGFA; VEGFB, BTC and PDGFB; VEGFB, BTC and PDGFC; VEGFB, BTC and VEGFA; VEGFB, BTC and VEGFC; VEGFB, BTC and VEGFD; VEGFB, BTC and TGFB1; VEGFB, BTC and IL-10; VEGFB, BTC and an anti-TNF α antibody; VEGFB, EGF and TGFA; VEGFB, EGF and FGF1; VEGFB, EGF and FGF2; VEGFB, EGF and FGF4; VEGFB, EGF and FGF7; VEGFB, EGF and FGF9; VEGFB, EGF and FGF19; VEGFB, EGF and SCF; VEGFB, EGF and PDGFA; VEGFB, EGF and PDGFB; VEGFB, EGF and PDGFC; VEGFB, EGF and VEGFA; VEGFB, EGF and VEGFC; VEGFB, EGF and VEGFD; VEGFB, EGF and TGFB1; VEGFB, EGF and IL-10; VEGFB, EGF and an anti-TNF α antibody; VEGFB, TGFA and FGF1; VEGFB, TGFA and FGF2; VEGFB, TGFA and FGF4; VEGFB, TGFA and FGF7; VEGFB, TGFA and FGF9; VEGFB, TGFA and FGF19; VEGFB, TGFA and SCF; VEGFB, TGFA and PDGFA; VEGFB, TGFA and PDGFB; VEGFB, TGFA and PDGFC; VEGFB, TGFA and VEGFA; VEGFB, TGFA and VEGFC; VEGFB, TGFA and VEGFD; VEGFB, TGFA and TGFB1; VEGFB, TGFA and IL-10; VEGFB, TGFA and an anti-TNF α antibody; VEGFB, FGF1 and FGF2; VEGFB, FGF1 and FGF4; VEGFB, FGF1 and FGF7; VEGFB, FGF1 and FGF9; VEGFB, FGF1 and FGF19; VEGFB, FGF1 and SCF; VEGFB, FGF1 and PDGFA; VEGFB, FGF1 and PDGFB; VEGFB, FGF1 and PDGFC; VEGFB, FGF1 and VEGFA; VEGFB, FGF1 and VEGFC; VEGFB, FGF1 and VEGFD; VEGFB, FGF1 and TGFB1; VEGFB, FGF1 and IL-10; VEGFB, FGF1 and an anti-TNF α antibody; VEGFB, FGF2 and FGF4; VEGFB, FGF2 and FGF7; VEGFB, FGF2 and FGF9; VEGFB, FGF2 and FGF19; VEGFB, FGF2 and SCF; VEGFB, FGF2 and PDGFA; VEGFB, FGF2 and PDGFB; VEGFB, FGF2 and PDGFC; VEGFB, FGF2 and VEGFA;

VEGFB, FGF2 and VEGFC; VEGFB, FGF2 and VEGFD; VEGFB, FGF2 and TGFB1; VEGFB,
 FGF2 and IL-10; VEGFB, FGF2 and an anti-TNF α antibody; VEGFB, FGF4 and FGF7;
 VEGFB, FGF4 and FGF9; VEGFB, FGF4 and FGF19; VEGFB, FGF4 and SCF; VEGFB, FGF4
 and PDGFA; VEGFB, FGF4 and PDGFB; VEGFB, FGF4 and PDGFC; VEGFB, FGF4 and
 5 VEGFA; VEGFB, FGF4 and VEGFC; VEGFB, FGF4 and VEGFD; VEGFB, FGF4 and
 TGFB1; VEGFB, FGF4 and IL-10; VEGFB, FGF4 and an anti-TNF α antibody; VEGFB, FGF7
 and FGF9; VEGFB, FGF7 and FGF19; VEGFB, FGF7 and SCF; VEGFB, FGF7 and PDGFA;
 VEGFB, FGF7 and PDGFB; VEGFB, FGF7 and PDGFC; VEGFB, FGF7 and VEGFA;
 VEGFB, FGF7 and VEGFC; VEGFB, FGF7 and VEGFD; VEGFB, FGF7 and TGFB1; VEGFB,
 10 FGF7 and IL-10; VEGFB, FGF7 and an anti-TNF α antibody; VEGFB, FGF9 and FGF19;
 VEGFB, FGF9 and SCF; VEGFB, FGF9 and PDGFA; VEGFB, FGF9 and PDGFB; VEGFB,
 FGF9 and PDGFC; VEGFB, FGF9 and VEGFA; VEGFB, FGF9 and VEGFC; VEGFB, FGF9
 and VEGFD; VEGFB, FGF9 and TGFB1; VEGFB, FGF9 and IL-10; VEGFB, FGF9 and an
 anti-TNF α antibody; VEGFB, FGF19 and SCF; VEGFB, FGF19 and PDGFA; VEGFB, FGF19
 15 and PDGFB; VEGFB, FGF19 and PDGFC; VEGFB, FGF19 and VEGFA; VEGFB, FGF19 and
 VEGFC; VEGFB, FGF19 and VEGFD; VEGFB, FGF19 and TGFB1; VEGFB, FGF19 and IL-
 10; VEGFB, FGF19 and an anti-TNF α antibody; VEGFB, SCF and PDGFA; VEGFB, SCF and
 PDGFB; VEGFB, SCF and PDGFC; VEGFB, SCF and VEGFA; VEGFB, SCF and VEGFC;
 VEGFB, SCF and VEGFD; VEGFB, SCF and TGFB1; VEGFB, SCF and IL-10; VEGFB, SCF
 20 and an anti-TNF α antibody; VEGFB, PDGFA and PDGFB; VEGFB, PDGFA and PDGFC;
 VEGFB, PDGFA and VEGFA; VEGFB, PDGFA and VEGFC; VEGFB, PDGFA and VEGFD;
 VEGFB, PDGFA and TGFB1; VEGFB, PDGFA and IL-10; VEGFB, PDGFA and an anti-TNF α
 antibody; VEGFB, PDGFB and PDGFC; VEGFB, PDGFB and VEGFA; VEGFB, PDGFB and
 VEGFC; VEGFB, PDGFB and VEGFD; VEGFB, PDGFB and TGFB1; VEGFB, PDGFB and
 25 IL-10; VEGFB, PDGFB and an anti-TNF α antibody; VEGFB, PDGFC and VEGFA; VEGFB,
 PDGFC and VEGFC; VEGFB, PDGFC and VEGFD; VEGFB, PDGFC and TGFB1; VEGFB,
 PDGFC and IL-10; VEGFB, PDGFC and an anti-TNF α antibody; VEGFB, VEGFA and
 VEGFC; VEGFB, VEGFA and VEGFD; VEGFB, VEGFA and TGFB1; VEGFB, VEGFA and
 IL-10; VEGFB, VEGFA and an anti-TNF α antibody; VEGFB, VEGFC and VEGFD; VEGFB,
 30 VEGFC and TGFB1; VEGFB, VEGFC and IL-10; VEGFB, VEGFC and an anti-TNF α
 antibody; VEGFB, VEGFD and TGFB1; VEGFB, VEGFD and IL-10; VEGFB, VEGFD and an

anti-TNF α antibody; VEGFB, TGFB1 and IL-10; VEGFB, TGFB1 and an anti-TNF α antibody; VEGFB, IL-10 and an anti-TNF α antibody; and the like.

[0190] VEGFC, AREG and EREG; VEGFC, AREG and HBEGF; VEGFC, AREG and HGF; VEGFC, AREG and HRGB; VEGFC, AREG and BTC; VEGFC, AREG and EGF; VEGFC, AREG and TGFA; VEGFC, AREG and FGF1; VEGFC, AREG and FGF2; VEGFC, AREG and FGF4; VEGFC, AREG and FGF7; VEGFC, AREG and FGF9; VEGFC, AREG and FGF19; VEGFC, AREG and SCF; VEGFC, AREG and PDGFA; VEGFC, AREG and PDGFB; VEGFC, AREG and PDGFC; VEGFC, AREG and VEGFA; VEGFC, AREG and VEGFB; VEGFC, AREG and VEGFC; VEGFC, AREG and VEGFD; VEGFC, AREG and TGFB1; VEGFC, AREG and IL-10; VEGFC, AREG and an anti-TNF α antibody; VEGFC, EREG and HBEGF; VEGFC, EREG and HGF; VEGFC, EREG and HRGB; VEGFC, EREG and BTC; VEGFC, EREG and EGF; VEGFC, EREG and TGFA; VEGFC, EREG and FGF1; VEGFC, EREG and FGF2; VEGFC, EREG and FGF4; VEGFC, EREG and FGF7; VEGFC, EREG and FGF9; VEGFC, EREG and FGF19; VEGFC, EREG and SCF; VEGFC, EREG and PDGFA; VEGFC, EREG and PDGFB; VEGFC, EREG and PDGFC; VEGFC, EREG and VEGFA; VEGFC, EREG and VEGFB; VEGFC, EREG and VEGFD; VEGFC, EREG and TGFB1; VEGFC, EREG and IL-10; VEGFC, EREG and an anti-TNF α antibody; VEGFC, HBEGF and HGF; VEGFC, HBEGF and HRGB; VEGFC, HBEGF and BTC; VEGFC, HBEGF and EGF; VEGFC, HBEGF and TGFA; VEGFC, HBEGF and FGF1; VEGFC, HBEGF and FGF2; VEGFC, HBEGF and FGF4; VEGFC, HBEGF and FGF7; VEGFC, HBEGF and FGF9; VEGFC, HBEGF and FGF19; VEGFC, HBEGF and SCF; VEGFC, HBEGF and PDGFA; VEGFC, HBEGF and PDGFB; VEGFC, HBEGF and PDGFC; VEGFC, HBEGF and VEGFA; VEGFC, HBEGF and VEGFB; VEGFC, HBEGF and VEGFD; VEGFC, HBEGF and TGFB1; VEGFC, HBEGF and IL-10; VEGFC, HBEGF and an anti-TNF α antibody; VEGFC, HGF and HRGB; VEGFC, HGF and BTC; VEGFC, HGF and EGF; VEGFC, HGF and TGFA; VEGFC, HGF and FGF1; VEGFC, HGF and FGF2; VEGFC, HGF and FGF4; VEGFC, HGF and FGF7; VEGFC, HGF and FGF9; VEGFC, HGF and FGF19; VEGFC, HGF and SCF; VEGFC, HGF and PDGFA; VEGFC, HGF and PDGFB; VEGFC, HGF and PDGFC; VEGFC, HGF and VEGFA; VEGFC, HGF and VEGFB; VEGFC, HGF and VEGFD; VEGFC, HGF and TGFB1; VEGFC, HGF and IL-10; VEGFC, HGF and an anti-TNF α antibody; VEGFC, HRGB and BTC; VEGFC, HRGB and EGF; VEGFC, HRGB and TGFA; VEGFC, HRGB and FGF1; VEGFC, HRGB and FGF2;

VEGFC, HRGB and FGF4; VEGFC, HRGB and FGF7; VEGFC, HRGB and FGF9; VEGFC,
 HRGB and FGF19; VEGFC, HRGB and SCF; VEGFC, HRGB and PDGFA; VEGFC, HRGB
 and PDGFB; VEGFC, HRGB and PDGFC; VEGFC, HRGB and VEGFA; VEGFC, HRGB and
 VEGFB; VEGFC, HRGB and VEGFD; VEGFC, HRGB and TGFB1; VEGFC, HRGB and IL-
 5 10; VEGFC, HRGB and an anti-TNF α antibody; VEGFC, BTC and EGF; VEGFC, BTC and
 TGFA; VEGFC, BTC and FGF1; VEGFC, BTC and FGF2; VEGFC, BTC and FGF4; VEGFC,
 BTC and FGF7; VEGFC, BTC and FGF9; VEGFC, BTC and FGF19; VEGFC, BTC and SCF;
 VEGFC, BTC and PDGFA; VEGFC, BTC and PDGFB; VEGFC, BTC and PDGFC; VEGFC,
 BTC and VEGFA; VEGFC, BTC and VEGFB; VEGFC, BTC and VEGFD; VEGFC, BTC and
 10 TGFB1; VEGFC, BTC and IL-10; VEGFC, BTC and an anti-TNF α antibody; VEGFC, EGF and
 TGFA; VEGFC, EGF and FGF1; VEGFC, EGF and FGF2; VEGFC, EGF and FGF4; VEGFC,
 EGF and FGF7; VEGFC, EGF and FGF9; VEGFC, EGF and FGF19; VEGFC, EGF and SCF;
 VEGFC, EGF and PDGFA; VEGFC, EGF and PDGFB; VEGFC, EGF and PDGFC; VEGFC,
 EGF and VEGFA; VEGFC, EGF and VEGFB; VEGFC, EGF and VEGFD; VEGFC, EGF and
 15 TGFB1; VEGFC, EGF and IL-10; VEGFC, EGF and an anti-TNF α antibody; VEGFC, TGFA
 and FGF1; VEGFC, TGFA and FGF2; VEGFC, TGFA and FGF4; VEGFC, TGFA and FGF7;
 VEGFC, TGFA and FGF9; VEGFC, TGFA and FGF19; VEGFC, TGFA and SCF; VEGFC,
 TGFA and PDGFA; VEGFC, TGFA and PDGFB; VEGFC, TGFA and PDGFC; VEGFC, TGFA
 and VEGFA; VEGFC, TGFA and VEGFB; VEGFC, TGFA and VEGFD; VEGFC, TGFA and
 20 TGFB1; VEGFC, TGFA and IL-10; VEGFC, TGFA and an anti-TNF α antibody; VEGFC, FGF1
 and FGF2; VEGFC, FGF1 and FGF4; VEGFC, FGF1 and FGF7; VEGFC, FGF1 and FGF9;
 VEGFC, FGF1 and FGF19; VEGFC, FGF1 and SCF; VEGFC, FGF1 and PDGFA; VEGFC,
 FGF1 and PDGFB; VEGFC, FGF1 and PDGFC; VEGFC, FGF1 and VEGFA; VEGFC, FGF1
 and VEGFB; VEGFC, FGF1 and VEGFD; VEGFC, FGF1 and TGFB1; VEGFC, FGF1 and IL-
 25 10; VEGFC, FGF1 and an anti-TNF α antibody; VEGFC, FGF2 and FGF4; VEGFC, FGF2 and
 FGF7; VEGFC, FGF2 and FGF9; VEGFC, FGF2 and FGF19; VEGFC, FGF2 and SCF;
 VEGFC, FGF2 and PDGFA; VEGFC, FGF2 and PDGFB; VEGFC, FGF2 and PDGFC;
 VEGFC, FGF2 and VEGFA; VEGFC, FGF2 and VEGFB; VEGFC, FGF2 and VEGFD;
 VEGFC, FGF2 and TGFB1; VEGFC, FGF2 and IL-10; VEGFC, FGF2 and an anti-TNF α
 30 antibody; VEGFC, FGF4 and FGF7; VEGFC, FGF4 and FGF9; VEGFC, FGF4 and FGF19;
 VEGFC, FGF4 and SCF; VEGFC, FGF4 and PDGFA; VEGFC, FGF4 and PDGFB; VEGFC,

FGF4 and PDGFC; VEGFC, FGF4 and VEGFA; VEGFC, FGF4 and VEGFB; VEGFC, FGF4
 and VEGFD; VEGFC, FGF4 and TGFB1; VEGFC, FGF4 and IL-10; VEGFC, FGF4 and an
 anti-TNF α antibody; VEGFC, FGF7 and FGF9; VEGFC, FGF7 and FGF19; VEGFC, FGF7 and
 SCF; VEGFC, FGF7 and PDGFA; VEGFC, FGF7 and PDGFB; VEGFC, FGF7 and PDGFC;
 5 VEGFC, FGF7 and VEGFA; VEGFC, FGF7 and VEGFB; VEGFC, FGF7 and VEGFD;
 VEGFC, FGF7 and TGFB1; VEGFC, FGF7 and IL-10; VEGFC, FGF7 and an anti-TNF α
 antibody; VEGFC, FGF9 and FGF19; VEGFC, FGF9 and SCF; VEGFC, FGF9 and PDGFA;
 VEGFC, FGF9 and PDGFB; VEGFC, FGF9 and PDGFC; VEGFC, FGF9 and VEGFA;
 VEGFC, FGF9 and VEGFB; VEGFC, FGF9 and VEGFD; VEGFC, FGF9 and TGFB1; VEGFC,
 10 FGF9 and IL-10; VEGFC, FGF9 and an anti-TNF α antibody; VEGFC, FGF19 and SCF;
 VEGFC, FGF19 and PDGFA; VEGFC, FGF19 and PDGFB; VEGFC, FGF19 and PDGFC;
 VEGFC, FGF19 and VEGFA; VEGFC, FGF19 and VEGFB; VEGFC, FGF19 and VEGFD;
 VEGFC, FGF19 and TGFB1; VEGFC, FGF19 and IL-10; VEGFC, FGF19 and an anti-TNF α
 antibody; VEGFC, SCF and PDGFA; VEGFC, SCF and PDGFB; VEGFC, SCF and PDGFC;
 15 VEGFC, SCF and VEGFA; VEGFC, SCF and VEGFB; VEGFC, SCF and VEGFD; VEGFC,
 SCF and TGFB1; VEGFC, SCF and IL-10; VEGFC, SCF and an anti-TNF α antibody; VEGFC,
 PDGFA and PDGFB; VEGFC, PDGFA and PDGFC; VEGFC, PDGFA and VEGFA; VEGFC,
 PDGFA and VEGFB; VEGFC, PDGFA and VEGFD; VEGFC, PDGFA and TGFB1; VEGFC,
 PDGFA and IL-10; VEGFC, PDGFA and an anti-TNF α antibody; VEGFC, PDGFB and
 20 PDGFC; VEGFC, PDGFB and VEGFA; VEGFC, PDGFB and VEGFB; VEGFC, PDGFB and
 VEGFD; VEGFC, PDGFB and TGFB1; VEGFC, PDGFB and IL-10; VEGFC, PDGFB and an
 anti-TNF α antibody; VEGFC, PDGFC and VEGFA; VEGFC, PDGFC and VEGFB; VEGFC,
 PDGFC and VEGFD; VEGFC, PDGFC and TGFB1; VEGFC, PDGFC and IL-10; VEGFC,
 PDGFC and an anti-TNF α antibody; VEGFC, VEGFA and VEGFB; VEGFC, VEGFA and
 25 VEGFD; VEGFC, VEGFA and TGFB1; VEGFC, VEGFA and IL-10; VEGFC, VEGFA and an
 anti-TNF α antibody; VEGFC, VEGFB and VEGFD; VEGFC, VEGFB and TGFB1; VEGFC,
 VEGFB and IL-10; VEGFC, VEGFB and an anti-TNF α antibody; VEGFC, VEGFD and
 TGFB1; VEGFC, VEGFD and IL-10; VEGFC, VEGFD and an anti-TNF α antibody; VEGFC,
 TGFB1 and IL-10; VEGFC, TGFB1 and an anti-TNF α antibody; VEGFC, IL-10 and an anti-
 30 TNF α antibody; VEGFD, AREG and EREG; VEGFD, AREG and HBEGF; VEGFD, AREG and
 HGF; VEGFD, AREG and HRGB; VEGFD, AREG and BTC; VEGFD, AREG and EGF;

VEGFD, AREG and TGFA; VEGFD, AREG and FGF1; VEGFD, AREG and FGF2; VEGFD, AREG and FGF4; VEGFD, AREG and FGF7; VEGFD, AREG and FGF9; VEGFD, AREG and FGF19; VEGFD, AREG and SCF; VEGFD, AREG and PDGFA; VEGFD, AREG and PDGFB; VEGFD, AREG and PDGFC; VEGFD, AREG and VEGFA; VEGFD, AREG and VEGFB;

5 VEGFD, AREG and VEGFC; VEGFD, AREG and TGFB1; VEGFD, AREG and IL-10; VEGFD, AREG and an anti-TNF α antibody; VEGFD, EREG and HBEGF; VEGFD, EREG and HGF; VEGFD, EREG and HRGB; VEGFD, EREG and BTC; VEGFD, EREG and EGF; VEGFD, EREG and TGFA; VEGFD, EREG and FGF1; VEGFD, EREG and FGF2; VEGFD, EREG and FGF4; VEGFD, EREG and FGF7; VEGFD, EREG and FGF9; VEGFD, EREG and FGF19; VEGFD, EREG and SCF; VEGFD, EREG and PDGFA; VEGFD, EREG and PDGFB;

10 VEGFD, EREG and PDGFC; VEGFD, EREG and VEGFA; VEGFD, EREG and VEGFB; VEGFD, EREG and VEGFC; VEGFD, EREG and TGFB1; VEGFD, EREG and IL-10; VEGFD, EREG and an anti-TNF α antibody; VEGFD, HBEGF and HGF; VEGFD, HBEGF and HRGB; VEGFD, HBEGF and BTC; VEGFD, HBEGF and EGF; VEGFD, HBEGF and TGFA; VEGFD, HBEGF and FGF1; VEGFD, HBEGF and FGF2; VEGFD, HBEGF and FGF4; VEGFD, HBEGF and FGF7; VEGFD, HBEGF and FGF9; VEGFD, HBEGF and FGF19; VEGFD, HBEGF and SCF; VEGFD, HBEGF and PDGFA; VEGFD, HBEGF and PDGFB; VEGFD, HBEGF and PDGFC; VEGFD, HBEGF and VEGFA; VEGFD, HBEGF and VEGFB; VEGFD, HBEGF and VEGFC; VEGFD, HBEGF and TGFB1; VEGFD, HBEGF and IL-10; VEGFD, HBEGF and an anti-TNF α antibody; VEGFD, HGF and HRGB; VEGFD, HGF and BTC;

15 VEGFD, HGF and EGF; VEGFD, HGF and TGFA; VEGFD, HGF and FGF1; VEGFD, HGF and FGF2; VEGFD, HGF and FGF4; VEGFD, HGF and FGF7; VEGFD, HGF and FGF9; VEGFD, HGF and FGF19; VEGFD, HGF and SCF; VEGFD, HGF and PDGFA; VEGFD, HGF and PDGFB; VEGFD, HGF and PDGFC; VEGFD, HGF and VEGFA; VEGFD, HGF and VEGFB; VEGFD, HGF and VEGFC; VEGFD, HGF and TGFB1; VEGFD, HGF and IL-10; VEGFD, HGF and an anti-TNF α antibody; VEGFD, HRGB and BTC; VEGFD, HRGB and EGF; VEGFD, HRGB and TGFA; VEGFD, HRGB and FGF1; VEGFD, HRGB and FGF2; VEGFD, HRGB and FGF4; VEGFD, HRGB and FGF7; VEGFD, HRGB and FGF9; VEGFD, HRGB and FGF19; VEGFD, HRGB and SCF; VEGFD, HRGB and PDGFA; VEGFD, HRGB and PDGFB; VEGFD, HRGB and PDGFC; VEGFD, HRGB and VEGFA; VEGFD, HRGB and VEGFB; VEGFD, HRGB and VEGFC; VEGFD, HRGB and TGFB1; VEGFD, HRGB and IL-

20 VEGFD, HGF and an anti-TNF α antibody; VEGFD, HGF and HRGB; VEGFD, HGF and BTC; VEGFD, HGF and EGF; VEGFD, HGF and TGFA; VEGFD, HGF and FGF1; VEGFD, HGF and FGF2; VEGFD, HGF and FGF4; VEGFD, HGF and FGF7; VEGFD, HGF and FGF9; VEGFD, HGF and FGF19; VEGFD, HGF and SCF; VEGFD, HGF and PDGFA; VEGFD, HGF and PDGFB; VEGFD, HGF and PDGFC; VEGFD, HGF and VEGFA; VEGFD, HGF and VEGFB; VEGFD, HGF and VEGFC; VEGFD, HGF and TGFB1; VEGFD, HGF and IL-10; VEGFD, HGF and an anti-TNF α antibody; VEGFD, HRGB and BTC; VEGFD, HRGB and EGF; VEGFD, HRGB and TGFA; VEGFD, HRGB and FGF1; VEGFD, HRGB and FGF2; VEGFD, HRGB and FGF4; VEGFD, HRGB and FGF7; VEGFD, HRGB and FGF9; VEGFD, HRGB and FGF19; VEGFD, HRGB and SCF; VEGFD, HRGB and PDGFA; VEGFD, HRGB and PDGFB; VEGFD, HRGB and PDGFC; VEGFD, HRGB and VEGFA; VEGFD, HRGB and VEGFB; VEGFD, HRGB and VEGFC; VEGFD, HRGB and TGFB1; VEGFD, HRGB and IL-

25 VEGFD, HGF and an anti-TNF α antibody; VEGFD, HGF and HRGB; VEGFD, HGF and BTC; VEGFD, HGF and EGF; VEGFD, HGF and TGFA; VEGFD, HGF and FGF1; VEGFD, HGF and FGF2; VEGFD, HGF and FGF4; VEGFD, HGF and FGF7; VEGFD, HGF and FGF9; VEGFD, HGF and FGF19; VEGFD, HGF and SCF; VEGFD, HGF and PDGFA; VEGFD, HGF and PDGFB; VEGFD, HGF and PDGFC; VEGFD, HGF and VEGFA; VEGFD, HGF and VEGFB; VEGFD, HGF and VEGFC; VEGFD, HGF and TGFB1; VEGFD, HGF and IL-

30 VEGFD, HGF and an anti-TNF α antibody; VEGFD, HGF and HRGB; VEGFD, HGF and BTC; VEGFD, HGF and EGF; VEGFD, HGF and TGFA; VEGFD, HGF and FGF1; VEGFD, HGF and FGF2; VEGFD, HGF and FGF4; VEGFD, HGF and FGF7; VEGFD, HGF and FGF9; VEGFD, HGF and FGF19; VEGFD, HGF and SCF; VEGFD, HGF and PDGFA; VEGFD, HGF and PDGFB; VEGFD, HGF and PDGFC; VEGFD, HGF and VEGFA; VEGFD, HGF and VEGFB; VEGFD, HGF and VEGFC; VEGFD, HGF and TGFB1; VEGFD, HGF and IL-

10; VEGFD, HRGB and an anti-TNF α antibody; VEGFD, BTC and EGF; VEGFD, BTC and
 TGFA; VEGFD, BTC and FGF1; VEGFD, BTC and FGF2; VEGFD, BTC and FGF4; VEGFD,
 BTC and FGF7; VEGFD, BTC and FGF9; VEGFD, BTC and FGF19; VEGFD, BTC and SCF;
 VEGFD, BTC and PDGFA; VEGFD, BTC and PDGFB; VEGFD, BTC and PDGFC; VEGFD,
 5 BTC and VEGFA; VEGFD, BTC and VEGFB; VEGFD, BTC and VEGFC; VEGFD, BTC and
 TGFB1; VEGFD, BTC and IL-10; VEGFD, BTC and an anti-TNF α antibody; VEGFD, EGF and
 TGFA; VEGFD, EGF and FGF1; VEGFD, EGF and FGF2; VEGFD, EGF and FGF4; VEGFD,
 EGF and FGF7; VEGFD, EGF and FGF9; VEGFD, EGF and FGF19; VEGFD, EGF and SCF;
 VEGFD, EGF and PDGFA; VEGFD, EGF and PDGFB; VEGFD, EGF and PDGFC; VEGFD,
 10 EGF and VEGFA; VEGFD, EGF and VEGFB; VEGFD, EGF and VEGFC; VEGFD, EGF and
 TGFB1; VEGFD, EGF and IL-10; VEGFD, EGF and an anti-TNF α antibody; VEGFD, TGFA
 and FGF1; VEGFD, TGFA and FGF2; VEGFD, TGFA and FGF4; VEGFD, TGFA and FGF7;
 VEGFD, TGFA and FGF9; VEGFD, TGFA and FGF19; VEGFD, TGFA and SCF; VEGFD,
 TGFA and PDGFA; VEGFD, TGFA and PDGFB; VEGFD, TGFA and PDGFC; VEGFD,
 15 TGFA and VEGFA; VEGFD, TGFA and VEGFB; VEGFD, TGFA and VEGFC; VEGFD,
 TGFA and TGFB1; VEGFD, TGFA and IL-10; VEGFD, TGFA and an anti-TNF α antibody;
 VEGFD, FGF1 and FGF2; VEGFD, FGF1 and FGF4; VEGFD, FGF1 and FGF7; VEGFD,
 FGF1 and FGF9; VEGFD, FGF1 and FGF19; VEGFD, FGF1 and SCF; VEGFD, FGF1 and
 PDGFA; VEGFD, FGF1 and PDGFB; VEGFD, FGF1 and PDGFC; VEGFD, FGF1 and
 20 VEGFA; VEGFD, FGF1 and VEGFB; VEGFD, FGF1 and VEGFC; VEGFD, FGF1 and
 TGFB1; VEGFD, FGF1 and IL-10; VEGFD, FGF1 and an anti-TNF α antibody; VEGFD, FGF2
 and FGF4; VEGFD, FGF2 and FGF7; VEGFD, FGF2 and FGF9; VEGFD, FGF2 and FGF19;
 VEGFD, FGF2 and SCF; VEGFD, FGF2 and PDGFA; VEGFD, FGF2 and PDGFB; VEGFD,
 FGF2 and PDGFC; VEGFD, FGF2 and VEGFA; VEGFD, FGF2 and VEGFB; VEGFD, FGF2
 25 and VEGFC; VEGFD, FGF2 and TGFB1; VEGFD, FGF2 and IL-10; VEGFD, FGF2 and an
 anti-TNF α antibody; VEGFD, FGF4 and FGF7; VEGFD, FGF4 and FGF9; VEGFD, FGF4 and
 FGF19; VEGFD, FGF4 and SCF; VEGFD, FGF4 and PDGFA; VEGFD, FGF4 and PDGFB;
 VEGFD, FGF4 and PDGFC; VEGFD, FGF4 and VEGFA; VEGFD, FGF4 and VEGFB;
 VEGFD, FGF4 and VEGFC; VEGFD, FGF4 and TGFB1; VEGFD, FGF4 and IL-10; VEGFD,
 30 FGF4 and an anti-TNF α antibody; VEGFD, FGF7 and FGF9; VEGFD, FGF7 and FGF19;
 VEGFD, FGF7 and SCF; VEGFD, FGF7 and PDGFA; VEGFD, FGF7 and PDGFB; VEGFD,

FGF7 and PDGFC; VEGFD, FGF7 and VEGFA; VEGFD, FGF7 and VEGFB; VEGFD, FGF7
 and VEGFC; VEGFD, FGF7 and TGFB1; VEGFD, FGF7 and IL-10; VEGFD, FGF7 and an
 anti-TNF α antibody; VEGFD, FGF9 and FGF19; VEGFD, FGF9 and SCF; VEGFD, FGF9 and
 PDGFA; VEGFD, FGF9 and PDGFB; VEGFD, FGF9 and PDGFC; VEGFD, FGF9 and
 5 VEGFA; VEGFD, FGF9 and VEGFB; VEGFD, FGF9 and VEGFC; VEGFD, FGF9 and
 TGFB1; VEGFD, FGF9 and IL-10; VEGFD, FGF9 and an anti-TNF α antibody; VEGFD, FGF19
 and SCF; VEGFD, FGF19 and PDGFA; VEGFD, FGF19 and PDGFB; VEGFD, FGF19 and
 PDGFC; VEGFD, FGF19 and VEGFA; VEGFD, FGF19 and VEGFB; VEGFD, FGF19 and
 VEGFC; VEGFD, FGF19 and TGFB1; VEGFD, FGF19 and IL-10; VEGFD, FGF19 and an
 10 anti-TNF α antibody; VEGFD, SCF and PDGFA; VEGFD, SCF and PDGFB; VEGFD, SCF and
 PDGFC; VEGFD, SCF and VEGFA; VEGFD, SCF and VEGFB; VEGFD, SCF and VEGFC;
 VEGFD, SCF and TGFB1; VEGFD, SCF and IL-10; VEGFD, SCF and an anti-TNF α antibody;
 VEGFD, PDGFA and PDGFB; VEGFD, PDGFA and PDGFC; VEGFD, PDGFA and VEGFA;
 VEGFD, PDGFA and VEGFB; VEGFD, PDGFA and VEGFC; VEGFD, PDGFA and TGFB1;
 15 VEGFD, PDGFA and IL-10; VEGFD, PDGFA and an anti-TNF α antibody; VEGFD, PDGFB
 and PDGFC; VEGFD, PDGFB and VEGFA; VEGFD, PDGFB and VEGFB; VEGFD, PDGFB
 and VEGFC; VEGFD, PDGFB and TGFB1; VEGFD, PDGFB and IL-10; VEGFD, PDGFB and
 an anti-TNF α antibody; VEGFD, PDGFC and VEGFA; VEGFD, PDGFC and VEGFB; VEGFD,
 PDGFC and VEGFC; VEGFD, PDGFC and TGFB1; VEGFD, PDGFC and IL-10; VEGFD,
 20 PDGFC and an anti-TNF α antibody; VEGFD, VEGFA and VEGFB; VEGFD, VEGFA and
 VEGFC; VEGFD, VEGFA and TGFB1; VEGFD, VEGFA and IL-10; VEGFD, VEGFA and an
 anti-TNF α antibody; VEGFD, VEGFB and VEGFC; VEGFD, VEGFB and TGFB1; VEGFD,
 VEGFB and IL-10; VEGFD, VEGFB and an anti-TNF α antibody; VEGFD, VEGFC and
 TGFB1; VEGFD, VEGFC and IL-10; VEGFD, VEGFC and an anti-TNF α antibody; VEGFD,
 25 TGFB1 and IL-10; VEGFD, TGFB1 and an anti-TNF α antibody; VEGFD, IL-10 and an anti-
 TNF α antibody; TGFB1, AREG and EREG; TGFB1, AREG and HBEGF; TGFB1, AREG and
 HGF; TGFB1, AREG and HRGB; TGFB1, AREG and BTC; TGFB1, AREG and EGF; TGFB1,
 AREG and TGFA; TGFB1, AREG and FGF1; TGFB1, AREG and FGF2; TGFB1, AREG and
 FGF4; TGFB1, AREG and FGF7; TGFB1, AREG and FGF9; TGFB1, AREG and FGF19;
 30 TGFB1, AREG and SCF; TGFB1, AREG and PDGFA; TGFB1, AREG and PDGFB; TGFB1,
 AREG and PDGFC; TGFB1, AREG and VEGFA; TGFB1, AREG and VEGFB; TGFB1, AREG

and VEGFC; TGFB1, AREG and VEGFD; TGFB1, AREG and IL-10; TGFB1, AREG and an anti-TNF α antibody; TGFB1, EREG and HBEGF; TGFB1, EREG and HGF; TGFB1, EREG and HRGB; TGFB1, EREG and BTC; TGFB1, EREG and EGF; TGFB1, EREG and TGFA; TGFB1, EREG and FGF1; TGFB1, EREG and FGF2; TGFB1, EREG and FGF4; TGFB1, EREG and FGF7; TGFB1, EREG and FGF9; TGFB1, EREG and FGF19; TGFB1, EREG and SCF; TGFB1, EREG and PDGFA; TGFB1, EREG and PDGFB; TGFB1, EREG and PDGFC; TGFB1, EREG and VEGFA; TGFB1, EREG and VEGFB; TGFB1, EREG and VEGFC; TGFB1, EREG and VEGFD; TGFB1, EREG and IL-10; TGFB1, EREG and an anti-TNF α antibody; TGFB1, HBEGF and HGF; TGFB1, HBEGF and HRGB; TGFB1, HBEGF and BTC; TGFB1, HBEGF and EGF; TGFB1, HBEGF and TGFA; TGFB1, HBEGF and FGF1; TGFB1, HBEGF and FGF2; TGFB1, HBEGF and FGF4; TGFB1, HBEGF and FGF7; TGFB1, HBEGF and FGF9; TGFB1, HBEGF and FGF19; TGFB1, HBEGF and SCF; TGFB1, HBEGF and PDGFA; TGFB1, HBEGF and PDGFB; TGFB1, HBEGF and PDGFC; TGFB1, HBEGF and VEGFA; TGFB1, HBEGF and VEGFB; TGFB1, HBEGF and VEGFC; TGFB1, HBEGF and VEGFD; TGFB1, HBEGF and IL-10; TGFB1, HBEGF and an anti-TNF α antibody; TGFB1, HGF and HRGB; TGFB1, HGF and BTC; TGFB1, HGF and EGF; TGFB1, HGF and TGFA; TGFB1, HGF and FGF1; TGFB1, HGF and FGF2; TGFB1, HGF and FGF4; TGFB1, HGF and FGF7; TGFB1, HGF and FGF9; TGFB1, HGF and FGF19; TGFB1, HGF and SCF; TGFB1, HGF and PDGFA; TGFB1, HGF and PDGFB; TGFB1, HGF and PDGFC; TGFB1, HGF and VEGFA; TGFB1, HGF and VEGFB; TGFB1, HGF and VEGFC; TGFB1, HGF and VEGFD; TGFB1, HGF and IL-10; TGFB1, HGF and an anti-TNF α antibody; TGFB1, HRGB and BTC; TGFB1, HRGB and EGF; TGFB1, HRGB and TGFA; TGFB1, HRGB and FGF1; TGFB1, HRGB and FGF2; TGFB1, HRGB and FGF4; TGFB1, HRGB and FGF7; TGFB1, HRGB and FGF9; TGFB1, HRGB and FGF19; TGFB1, HRGB and SCF; TGFB1, HRGB and PDGFA; TGFB1, HRGB and PDGFB; TGFB1, HRGB and PDGFC; TGFB1, HRGB and VEGFA; TGFB1, HRGB and VEGFB; TGFB1, HRGB and VEGFC; TGFB1, HRGB and VEGFD; TGFB1, HRGB and IL-10; TGFB1, HRGB and an anti-TNF α antibody; TGFB1, BTC and EGF; TGFB1, BTC and TGFA; TGFB1, BTC and FGF1; TGFB1, BTC and FGF2; TGFB1, BTC and FGF4; TGFB1, BTC and FGF7; TGFB1, BTC and FGF9; TGFB1, BTC and FGF19; TGFB1, BTC and SCF; TGFB1, BTC and PDGFA; TGFB1, BTC and PDGFB; TGFB1, BTC and PDGFC; TGFB1, BTC and VEGFA; TGFB1, BTC and VEGFB; TGFB1, BTC and VEGFC; TGFB1, BTC and

VEGFD; TGFB1, BTC and IL-10; TGFB1, BTC and an anti-TNF α antibody; TGFB1, EGF and
 TGFA; TGFB1, EGF and FGF1; TGFB1, EGF and FGF2; TGFB1, EGF and FGF4; TGFB1,
 EGF and FGF7; TGFB1, EGF and FGF9; TGFB1, EGF and FGF19; TGFB1, EGF and SCF;
 TGFB1, EGF and PDGFA; TGFB1, EGF and PDGFB; TGFB1, EGF and PDGFC; TGFB1, EGF
 5 and VEGFA; TGFB1, EGF and VEGFB; TGFB1, EGF and VEGFC; TGFB1, EGF and VEGFD;
 TGFB1, EGF and IL-10; TGFB1, EGF and an anti-TNF α antibody; TGFB1, TGFA and FGF1;
 TGFB1, TGFA and FGF2; TGFB1, TGFA and FGF4; TGFB1, TGFA and FGF7; TGFB1,
 TGFA and FGF9; TGFB1, TGFA and FGF19; TGFB1, TGFA and SCF; TGFB1, TGFA and
 PDGFA; TGFB1, TGFA and PDGFB; TGFB1, TGFA and PDGFC; TGFB1, TGFA and
 10 VEGFA; TGFB1, TGFA and VEGFB; TGFB1, TGFA and VEGFC; TGFB1, TGFA and
 VEGFD; TGFB1, TGFA and IL-10; TGFB1, TGFA and an anti-TNF α antibody; TGFB1, FGF1
 and FGF2; TGFB1, FGF1 and FGF4; TGFB1, FGF1 and FGF7; TGFB1, FGF1 and FGF9;
 TGFB1, FGF1 and FGF19; TGFB1, FGF1 and SCF; TGFB1, FGF1 and PDGFA; TGFB1, FGF1
 and PDGFB; TGFB1, FGF1 and PDGFC; TGFB1, FGF1 and VEGFA; TGFB1, FGF1 and
 15 VEGFB; TGFB1, FGF1 and VEGFC; TGFB1, FGF1 and VEGFD; TGFB1, FGF1 and IL-10;
 TGFB1, FGF1 and an anti-TNF α antibody; TGFB1, FGF2 and FGF4; TGFB1, FGF2 and FGF7;
 TGFB1, FGF2 and FGF9; TGFB1, FGF2 and FGF19; TGFB1, FGF2 and SCF; TGFB1, FGF2
 and PDGFA; TGFB1, FGF2 and PDGFB; TGFB1, FGF2 and PDGFC; TGFB1, FGF2 and
 VEGFA; TGFB1, FGF2 and VEGFB; TGFB1, FGF2 and VEGFC; TGFB1, FGF2 and VEGFD;
 20 TGFB1, FGF2 and IL-10; TGFB1, FGF2 and an anti-TNF α antibody; TGFB1, FGF4 and FGF7;
 TGFB1, FGF4 and FGF9; TGFB1, FGF4 and FGF19; TGFB1, FGF4 and SCF; TGFB1, FGF4
 and PDGFA; TGFB1, FGF4 and PDGFB; TGFB1, FGF4 and PDGFC; TGFB1, FGF4 and
 VEGFA; TGFB1, FGF4 and VEGFB; TGFB1, FGF4 and VEGFC; TGFB1, FGF4 and VEGFD;
 TGFB1, FGF4 and IL-10; TGFB1, FGF4 and an anti-TNF α antibody; TGFB1, FGF7 and FGF9;
 25 TGFB1, FGF7 and FGF19; TGFB1, FGF7 and SCF; TGFB1, FGF7 and PDGFA; TGFB1, FGF7
 and PDGFB; TGFB1, FGF7 and PDGFC; TGFB1, FGF7 and VEGFA; TGFB1, FGF7 and
 VEGFB; TGFB1, FGF7 and VEGFC; TGFB1, FGF7 and VEGFD; TGFB1, FGF7 and IL-10;
 TGFB1, FGF7 and an anti-TNF α antibody; TGFB1, FGF9 and FGF19; TGFB1, FGF9 and SCF;
 TGFB1, FGF9 and PDGFA; TGFB1, FGF9 and PDGFB; TGFB1, FGF9 and PDGFC; TGFB1,
 30 FGF9 and VEGFA; TGFB1, FGF9 and VEGFB; TGFB1, FGF9 and VEGFC; TGFB1, FGF9
 and VEGFD; TGFB1, FGF9 and IL-10; TGFB1, FGF9 and an anti-TNF α antibody; TGFB1,

FGF19 and SCF; TGFB1, FGF19 and PDGFA; TGFB1, FGF19 and PDGFB; TGFB1, FGF19
 and PDGFC; TGFB1, FGF19 and VEGFA; TGFB1, FGF19 and VEGFB; TGFB1, FGF19 and
 VEGFC; TGFB1, FGF19 and VEGFD; TGFB1, FGF19 and IL-10; TGFB1, FGF19 and an anti-
 TNF α antibody; TGFB1, SCF and PDGFA; TGFB1, SCF and PDGFB; TGFB1, SCF and
 5 PDGFC; TGFB1, SCF and VEGFA; TGFB1, SCF and VEGFB; TGFB1, SCF and VEGFC;
 TGFB1, SCF and VEGFD; TGFB1, SCF and IL-10; TGFB1, SCF and an anti-TNF α antibody;
 TGFB1, PDGFA and PDGFB; TGFB1, PDGFA and PDGFC; TGFB1, PDGFA and VEGFA;
 TGFB1, PDGFA and VEGFB; TGFB1, PDGFA and VEGFC; TGFB1, PDGFA and VEGFD;
 TGFB1, PDGFA and IL-10; TGFB1, PDGFA and an anti-TNF α antibody; TGFB1, PDGFB and
 10 PDGFC; TGFB1, PDGFB and VEGFA; TGFB1, PDGFB and VEGFB; TGFB1, PDGFB and
 VEGFC; TGFB1, PDGFB and VEGFD; TGFB1, PDGFB and IL-10; TGFB1, PDGFB and an
 anti-TNF α antibody; TGFB1, PDGFC and VEGFA; TGFB1, PDGFC and VEGFB; TGFB1,
 PDGFC and VEGFC; TGFB1, PDGFC and VEGFD; TGFB1, PDGFC and IL-10; TGFB1,
 PDGFC and an anti-TNF α antibody; TGFB1, VEGFA and VEGFB; TGFB1, VEGFA and
 15 VEGFC; TGFB1, VEGFA and VEGFD; TGFB1, VEGFA and IL-10; TGFB1, VEGFA and an
 anti-TNF α antibody; TGFB1, VEGFB and VEGFC; TGFB1, VEGFB and VEGFD; TGFB1,
 VEGFB and IL-10; TGFB1, VEGFB and an anti-TNF α antibody; TGFB1, VEGFC and VEGFD;
 TGFB1, VEGFC and IL-10; TGFB1, VEGFC and an anti-TNF α antibody; TGFB1, VEGFD and
 IL-10; TGFB1, VEGFD and an anti-TNF α antibody; TGFB1, IL-10 and an anti-TNF α antibody;
 20 IL-10, AREG and EREG; IL-10, AREG and HBEGF; IL-10, AREG and HGF; IL-10, AREG and
 HRGB; IL-10, AREG and BTC; IL-10, AREG and EGF; IL-10, AREG and TGFA; IL-10,
 AREG and FGF1; IL-10, AREG and FGF2; IL-10, AREG and FGF4; IL-10, AREG and FGF7;
 IL-10, AREG and FGF9; IL-10, AREG and FGF19; IL-10, AREG and SCF; IL-10, AREG and
 PDGFA; IL-10, AREG and PDGFB; IL-10, AREG and PDGFC; IL-10, AREG and VEGFA; IL-
 25 10, AREG and VEGFB; IL-10, AREG and VEGFC; IL-10, AREG and VEGFD; IL-10, AREG
 and TGFB1; IL-10, AREG and IL-10; IL-10, AREG and an anti-TNF α antibody; IL-10, EREG
 and HBEGF; IL-10, EREG and HGF; IL-10, EREG and HRGB; IL-10, EREG and BTC; IL-10,
 EREG and EGF; IL-10, EREG and TGFA; IL-10, EREG and FGF1; IL-10, EREG and FGF2;
 IL-10, EREG and FGF4; IL-10, EREG and FGF7; IL-10, EREG and FGF9; IL-10, EREG and
 30 FGF19; IL-10, EREG and SCF; IL-10, EREG and PDGFA; IL-10, EREG and PDGFB; IL-10,
 EREG and PDGFC; IL-10, EREG and VEGFA; IL-10, EREG and VEGFB; IL-10, EREG and

VEGFC; IL-10, EREG and VEGFD; IL-10, EREG and TGFB1; IL-10, EREG and an anti-TNF α antibody; IL-10, HBEGF and HGF; IL-10, HBEGF and HRGB; IL-10, HBEGF and BTC; IL-10, HBEGF and EGF; IL-10, HBEGF and TGFA; IL-10, HBEGF and FGF1; IL-10, HBEGF and FGF2; IL-10, HBEGF and FGF4; IL-10, HBEGF and FGF7; IL-10, HBEGF and FGF9; IL-10, HBEGF and FGF19; IL-10, HBEGF and SCF; IL-10, HBEGF and PDGFA; IL-10, HBEGF and PDGFB; IL-10, HBEGF and PDGFC; IL-10, HBEGF and VEGFA; IL-10, HBEGF and VEGFB; IL-10, HBEGF and VEGFC; IL-10, HBEGF and VEGFD; IL-10, HBEGF and TGFB1; IL-10, HBEGF and an anti-TNF α antibody; IL-10, HGF and HRGB; IL-10, HGF and BTC; IL-10, HGF and EGF; IL-10, HGF and TGFA; IL-10, HGF and FGF1; IL-10, HGF and FGF2; IL-10, HGF and FGF4; IL-10, HGF and FGF7; IL-10, HGF and FGF9; IL-10, HGF and FGF19; IL-10, HGF and SCF; IL-10, HGF and PDGFA; IL-10, HGF and PDGFB; IL-10, HGF and PDGFC; IL-10, HGF and VEGFA; IL-10, HGF and VEGFB; IL-10, HGF and VEGFC; IL-10, HGF and VEGFD; IL-10, HGF and TGFB1; IL-10, HGF and an anti-TNF α antibody; IL-10, HRGB and BTC; IL-10, HRGB and EGF; IL-10, HRGB and TGFA; IL-10, HRGB and FGF1; IL-10, HRGB and FGF2; IL-10, HRGB and FGF4; IL-10, HRGB and FGF7; IL-10, HRGB and FGF9; IL-10, HRGB and FGF19; IL-10, HRGB and SCF; IL-10, HRGB and PDGFA; IL-10, HRGB and PDGFB; IL-10, HRGB and PDGFC; IL-10, HRGB and VEGFA; IL-10, HRGB and VEGFB; IL-10, HRGB and VEGFC; IL-10, HRGB and VEGFD; IL-10, HRGB and TGFB1; IL-10, HRGB and an anti-TNF α antibody; IL-10, BTC and EGF; IL-10, BTC and TGFA; IL-10, BTC and FGF1; IL-10, BTC and FGF2; IL-10, BTC and FGF4; IL-10, BTC and FGF7; IL-10, BTC and FGF9; IL-10, BTC and FGF19; IL-10, BTC and SCF; IL-10, BTC and PDGFA; IL-10, BTC and PDGFB; IL-10, BTC and PDGFC; IL-10, BTC and VEGFA; IL-10, BTC and VEGFB; IL-10, BTC and VEGFC; IL-10, BTC and VEGFD; IL-10, BTC and TGFB1; IL-10, BTC and an anti-TNF α antibody; IL-10, EGF and TGFA; IL-10, EGF and FGF1; IL-10, EGF and FGF2; IL-10, EGF and FGF4; IL-10, EGF and FGF7; IL-10, EGF and FGF9; IL-10, EGF and FGF19; IL-10, EGF and SCF; IL-10, EGF and PDGFA; IL-10, EGF and PDGFB; IL-10, EGF and PDGFC; IL-10, EGF and VEGFA; IL-10, EGF and VEGFB; IL-10, EGF and VEGFC; IL-10, EGF and VEGFD; IL-10, EGF and TGFB1; IL-10, EGF and an anti-TNF α antibody; IL-10, TGFA and FGF1; IL-10, TGFA and FGF2; IL-10, TGFA and FGF4; IL-10, TGFA and FGF7; IL-10, TGFA and FGF9; IL-10, TGFA and FGF19; IL-10, TGFA and SCF; IL-10, TGFA and PDGFA; IL-10, TGFA and PDGFB; IL-10, TGFA and PDGFC; IL-10, TGFA and VEGFA; IL-10, TGFA and

VEGFB; IL-10, TGFA and VEGFC; IL-10, TGFA and VEGFD; IL-10, TGFA and TGFB1; IL-
 10, TGFA and an anti-TNF α antibody; IL-10, FGF1 and FGF2; IL-10, FGF1 and FGF4; IL-10,
 FGF1 and FGF7; IL-10, FGF1 and FGF9; IL-10, FGF1 and FGF19; IL-10, FGF1 and SCF; IL-
 10, FGF1 and PDGFA; IL-10, FGF1 and PDGFB; IL-10, FGF1 and PDGFC; IL-10, FGF1 and
 5 VEGFA; IL-10, FGF1 and VEGFB; IL-10, FGF1 and VEGFC; IL-10, FGF1 and VEGFD; IL-
 10, FGF1 and TGFB1; IL-10, FGF1 and an anti-TNF α antibody; IL-10, FGF2 and FGF4; IL-10,
 FGF2 and FGF7; IL-10, FGF2 and FGF9; IL-10, FGF2 and FGF19; IL-10, FGF2 and SCF; IL-
 10, FGF2 and PDGFA; IL-10, FGF2 and PDGFB; IL-10, FGF2 and PDGFC; IL-10, FGF2 and
 VEGFA; IL-10, FGF2 and VEGFB; IL-10, FGF2 and VEGFC; IL-10, FGF2 and VEGFD; IL-
 10, FGF2 and TGFB1; IL-10, FGF2 and an anti-TNF α antibody; IL-10, FGF4 and FGF7; IL-10,
 FGF4 and FGF9; IL-10, FGF4 and FGF19; IL-10, FGF4 and SCF; IL-10, FGF4 and PDGFA;
 IL-10, FGF4 and PDGFB; IL-10, FGF4 and PDGFC; IL-10, FGF4 and VEGFA; IL-10, FGF4
 and VEGFB; IL-10, FGF4 and VEGFC; IL-10, FGF4 and VEGFD; IL-10, FGF4 and TGFB1;
 IL-10, FGF4 and an anti-TNF α antibody; IL-10, FGF7 and FGF9; IL-10, FGF7 and FGF19; IL-
 15 10, FGF7 and SCF; IL-10, FGF7 and PDGFA; IL-10, FGF7 and PDGFB; IL-10, FGF7 and
 PDGFC; IL-10, FGF7 and VEGFA; IL-10, FGF7 and VEGFB; IL-10, FGF7 and VEGFC; IL-10,
 FGF7 and VEGFD; IL-10, FGF7 and TGFB1; IL-10, FGF7 and an anti-TNF α antibody; IL-10,
 FGF9 and FGF19; IL-10, FGF9 and SCF; IL-10, FGF9 and PDGFA; IL-10, FGF9 and PDGFB;
 IL-10, FGF9 and PDGFC; IL-10, FGF9 and VEGFA; IL-10, FGF9 and VEGFB; IL-10, FGF9
 20 and VEGFC; IL-10, FGF9 and VEGFD; IL-10, FGF9 and TGFB1; IL-10, FGF9 and an anti-
 TNF α antibody; IL-10, FGF19 and SCF; IL-10, FGF19 and PDGFA; IL-10, FGF19 and PDGFB;
 IL-10, FGF19 and PDGFC; IL-10, FGF19 and VEGFA; IL-10, FGF19 and VEGFB; IL-10,
 FGF19 and VEGFC; IL-10, FGF19 and VEGFD; IL-10, FGF19 and TGFB1; IL-10, FGF19 and
 an anti-TNF α antibody; IL-10, SCF and PDGFA; IL-10, SCF and PDGFB; IL-10, SCF and
 25 PDGFC; IL-10, SCF and VEGFA; IL-10, SCF and VEGFB; IL-10, SCF and VEGFC; IL-10,
 SCF and VEGFD; IL-10, SCF and TGFB1; IL-10, SCF and an anti-TNF α antibody; IL-10,
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 and VEGFB; IL-10, PDGFA and VEGFC; IL-10, PDGFA and VEGFD; IL-10, PDGFA and
 TGFB1; IL-10, PDGFA and an anti-TNF α antibody; IL-10, PDGFB and PDGFC; IL-10, PDGFB
 30 and VEGFA; IL-10, PDGFB and VEGFB; IL-10, PDGFB and VEGFC; IL-10, PDGFB and
 VEGFD; IL-10, PDGFB and TGFB1; IL-10, PDGFB and an anti-TNF α antibody; IL-10,

PDGFC and VEGFA; IL-10, PDGFC and VEGFB; IL-10, PDGFC and VEGFC; IL-10, PDGFC
 and VEGFD; IL-10, PDGFC and TGFB1; IL-10, PDGFC and an anti-TNF α antibody; IL-10,
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 and TGFB1; IL-10, VEGFA and an anti-TNF α antibody; IL-10, VEGFB and VEGFC; IL-10,
 5 VEGFB and VEGFD; IL-10, VEGFB and TGFB1; IL-10, VEGFB and an anti-TNF α antibody;
 IL-10, VEGFC and VEGFD; IL-10, VEGFC and TGFB1; IL-10, VEGFC and an anti-TNF α
 antibody; IL-10, VEGFD and TGFB1; IL-10, VEGFD and an anti-TNF α antibody; IL-10,
 TGFB1 and an anti-TNF α antibody; an anti-TNF α antibody, AREG and EREG; an anti-TNF α
 antibody, AREG and HBEGF; an anti-TNF α antibody, AREG and HGF; an anti-TNF α antibody,
 10 AREG and HRGB; an anti-TNF α antibody, AREG and BTC; an anti-TNF α antibody, AREG and
 EGF; an anti-TNF α antibody, AREG and TGFA; an anti-TNF α antibody, AREG and FGF1; an
 anti-TNF α antibody, AREG and FGF2; an anti-TNF α antibody, AREG and FGF4; an anti-TNF α
 antibody, AREG and FGF7; an anti-TNF α antibody, AREG and FGF9; an anti-TNF α antibody,
 AREG and FGF19; an anti-TNF α antibody, AREG and SCF; an anti-TNF α antibody, AREG and
 15 PDGFA; an anti-TNF α antibody, AREG and PDGFB; an anti-TNF α antibody, AREG and
 PDGFC; an anti-TNF α antibody, AREG and VEGFA; an anti-TNF α antibody, AREG and
 VEGFB; an anti-TNF α antibody, AREG and VEGFC; an anti-TNF α antibody, AREG and
 VEGFD; an anti-TNF α antibody, AREG and TGFB1; an anti-TNF α antibody, AREG and IL-10;
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 20 TNF α antibody, EREG and HRGB; an anti-TNF α antibody, EREG and BTC; an anti-TNF α
 antibody, EREG and EGF; an anti-TNF α antibody, EREG and TGFA; an anti-TNF α antibody,
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 FGF4; an anti-TNF α antibody, EREG and FGF7; an anti-TNF α antibody, EREG and FGF9; an
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 25 antibody, EREG and PDGFA; an anti-TNF α antibody, EREG and PDGFB; an anti-TNF α
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 30 HBEGF and HRGB; an anti-TNF α antibody, HBEGF and BTC; an anti-TNF α antibody, HBEGF
 and EGF; an anti-TNF α antibody, HBEGF and TGFA; an anti-TNF α antibody, HBEGF and

FGF1; an anti-TNF α antibody, HBEGF and FGF2; an anti-TNF α antibody, HBEGF and FGF4;
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 TNF α antibody, HBEGF and FGF19; an anti-TNF α antibody, HBEGF and SCF; an anti-TNF α
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 5 antibody, HBEGF and PDGFC; an anti-TNF α antibody, HBEGF and VEGFA; an anti-TNF α
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 HGF and BTC; an anti-TNF α antibody, HGF and EGF; an anti-TNF α antibody, HGF and TGFA;
 10 an anti-TNF α antibody, HGF and FGF1; an anti-TNF α antibody, HGF and FGF2; an anti-TNF α
 antibody, HGF and FGF4; an anti-TNF α antibody, HGF and FGF7; an anti-TNF α antibody, HGF
 and FGF9; an anti-TNF α antibody, HGF and FGF19; an anti-TNF α antibody, HGF and SCF; an
 anti-TNF α antibody, HGF and PDGFA; an anti-TNF α antibody, HGF and PDGFB; an anti-
 TNF α antibody, HGF and PDGFC; an anti-TNF α antibody, HGF and VEGFA; an anti-TNF α
 15 antibody, HGF and VEGFB; an anti-TNF α antibody, HGF and VEGFC; an anti-TNF α antibody,
 HGF and VEGFD; an anti-TNF α antibody, HGF and TGFB1; an anti-TNF α antibody, HGF and
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 anti-TNF α antibody, HRGB and TGFA; an anti-TNF α antibody, HRGB and FGF1; an anti-
 TNF α antibody, HRGB and FGF2; an anti-TNF α antibody, HRGB and FGF4; an anti-TNF α
 20 antibody, HRGB and FGF7; an anti-TNF α antibody, HRGB and FGF9; an anti-TNF α antibody,
 HRGB and FGF19; an anti-TNF α antibody, HRGB and SCF; an anti-TNF α antibody, HRGB and
 PDGFA; an anti-TNF α antibody, HRGB and PDGFB; an anti-TNF α antibody, HRGB and
 PDGFC; an anti-TNF α antibody, HRGB and VEGFA; an anti-TNF α antibody, HRGB and
 VEGFB; an anti-TNF α antibody, HRGB and VEGFC; an anti-TNF α antibody, HRGB and
 25 VEGFD; an anti-TNF α antibody, HRGB and TGFB1; an anti-TNF α antibody, HRGB and IL-10;
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 and FGF4; an anti-TNF α antibody, BTC and FGF7; an anti-TNF α antibody, BTC and FGF9; an
 anti-TNF α antibody, BTC and FGF19; an anti-TNF α antibody, BTC and SCF; an anti-TNF α
 30 antibody, BTC and PDGFA; an anti-TNF α antibody, BTC and PDGFB; an anti-TNF α antibody,
 BTC and PDGFC; an anti-TNF α antibody, BTC and VEGFA; an anti-TNF α antibody, BTC and

VEGFB; an anti-TNF α antibody, BTC and VEGFC; an anti-TNF α antibody, BTC and VEGFD;
 an anti-TNF α antibody, BTC and TGFB1; an anti-TNF α antibody, BTC and IL-10; an anti-TNF α
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 and FGF2; an anti-TNF α antibody, EGF and FGF4; an anti-TNF α antibody, EGF and FGF7; an
 5 anti-TNF α antibody, EGF and FGF9; an anti-TNF α antibody, EGF and FGF19; an anti-TNF α
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 EGF and PDGFB; an anti-TNF α antibody, EGF and PDGFC; an anti-TNF α antibody, EGF and
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 an anti-TNF α antibody, EGF and VEGFD; an anti-TNF α antibody, EGF and TGFB1; an anti-
 10 TNF α antibody, EGF and IL-10; an anti-TNF α antibody, TGFA and FGF1; an anti-TNF α
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 15 TNF α antibody, TGFA and VEGFA; an anti-TNF α antibody, TGFA and VEGFB; an anti-TNF α
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 antibody, TGFA and TGFB1; an anti-TNF α antibody, TGFA and IL-10; an anti-TNF α antibody,
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 20 anti-TNF α antibody, FGF1 and SCF; an anti-TNF α antibody, FGF1 and PDGFA; an anti-TNF α
 antibody, FGF1 and PDGFB; an anti-TNF α antibody, FGF1 and PDGFC; an anti-TNF α
 antibody, FGF1 and VEGFA; an anti-TNF α antibody, FGF1 and VEGFB; an anti-TNF α
 antibody, FGF1 and VEGFC; an anti-TNF α antibody, FGF1 and VEGFD; an anti-TNF α
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 25 FGF2 and FGF4; an anti-TNF α antibody, FGF2 and FGF7; an anti-TNF α antibody, FGF2 and
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 TNF α antibody, FGF2 and PDGFC; an anti-TNF α antibody, FGF2 and VEGFA; an anti-TNF α
 antibody, FGF2 and VEGFB; an anti-TNF α antibody, FGF2 and VEGFC; an anti-TNF α
 30 antibody, FGF2 and VEGFD; an anti-TNF α antibody, FGF2 and TGFB1; an anti-TNF α
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 anti-TNF α antibody, FGF4 and PDGFC; an anti-TNF α antibody, FGF4 and VEGFA; an anti-
 TNF α antibody, FGF4 and VEGFB; an anti-TNF α antibody, FGF4 and VEGFC; an anti-TNF α
 5 antibody, FGF4 and VEGFD; an anti-TNF α antibody, FGF4 and TGFB1; an anti-TNF α
 antibody, FGF4 and IL-10; an anti-TNF α antibody, FGF7 and FGF9; an anti-TNF α antibody,
 FGF7 and FGF19; an anti-TNF α antibody, FGF7 and SCF; an anti-TNF α antibody, FGF7 and
 PDGFA; an anti-TNF α antibody, FGF7 and PDGFB; an anti-TNF α antibody, FGF7 and PDGFC;
 an anti-TNF α antibody, FGF7 and VEGFA; an anti-TNF α antibody, FGF7 and VEGFB; an anti-
 10 TNF α antibody, FGF7 and VEGFC; an anti-TNF α antibody, FGF7 and VEGFD; an anti-TNF α
 antibody, FGF7 and TGFB1; an anti-TNF α antibody, FGF7 and IL-10; an anti-TNF α antibody,
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 PDGFA; an anti-TNF α antibody, FGF9 and PDGFB; an anti-TNF α antibody, FGF9 and PDGFC;
 an anti-TNF α antibody, FGF9 and VEGFA; an anti-TNF α antibody, FGF9 and VEGFB; an anti-
 15 TNF α antibody, FGF9 and VEGFC; an anti-TNF α antibody, FGF9 and VEGFD; an anti-TNF α
 antibody, FGF9 and TGFB1; an anti-TNF α antibody, FGF9 and IL-10; an anti-TNF α antibody,
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 and PDGFB; an anti-TNF α antibody, FGF19 and PDGFC; an anti-TNF α antibody, FGF19 and
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 20 VEGFC; an anti-TNF α antibody, FGF19 and VEGFD; an anti-TNF α antibody, FGF19 and
 TGFB1; an anti-TNF α antibody, FGF19 and IL-10; an anti-TNF α antibody, SCF and PDGFA;
 an anti-TNF α antibody, SCF and PDGFB; an anti-TNF α antibody, SCF and PDGFC; an anti-
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 antibody, SCF and VEGFC; an anti-TNF α antibody, SCF and VEGFD; an anti-TNF α antibody,
 25 SCF and TGFB1; an anti-TNF α antibody, SCF and IL-10; an anti-TNF α antibody, PDGFA and
 PDGFB; an anti-TNF α antibody, PDGFA and PDGFC; an anti-TNF α antibody, PDGFA and
 VEGFA; an anti-TNF α antibody, PDGFA and VEGFB; an anti-TNF α antibody, PDGFA and
 VEGFC; an anti-TNF α antibody, PDGFA and VEGFD; an anti-TNF α antibody, PDGFA and
 TGFB1; an anti-TNF α antibody, PDGFA and IL-10; an anti-TNF α antibody, PDGFB and
 30 PDGFC; an anti-TNF α antibody, PDGFB and VEGFA; an anti-TNF α antibody, PDGFB and
 VEGFB; an anti-TNF α antibody, PDGFB and VEGFC; an anti-TNF α antibody, PDGFB and

VEGFD; an anti-TNF α antibody, PDGFB and TGFB1; an anti-TNF α antibody, PDGFB and IL-10; an anti-TNF α antibody, PDGFC and VEGFA; an anti-TNF α antibody, PDGFC and VEGFB; an anti-TNF α antibody, PDGFC and VEGFC; an anti-TNF α antibody, PDGFC and VEGFD; an anti-TNF α antibody, PDGFC and TGFB1; an anti-TNF α antibody, PDGFC and IL-10; an anti-TNF α antibody, VEGFA and VEGFB; an anti-TNF α antibody, VEGFA and VEGFC; an anti-TNF α antibody, VEGFA and VEGFD; an anti-TNF α antibody, VEGFA and TGFB1; an anti-TNF α antibody, VEGFA and IL-10; an anti-TNF α antibody, VEGFB and VEGFC; an anti-TNF α antibody, VEGFB and VEGFD; an anti-TNF α antibody, VEGFB and TGFB1; an anti-TNF α antibody, VEGFB and IL-10; an anti-TNF α antibody, VEGFC and VEGFD; an anti-TNF α antibody, VEGFC and TGFB1; an anti-TNF α antibody, VEGFC and IL-10; an anti-TNF α antibody, VEGFD and TGFB1; an anti-TNF α antibody, VEGFD and IL-10; an anti-TNF α antibody, TGFB1 and IL-10; and the like. In some instances, the combination of at least three markers can further include at least 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, or 22 of the other markers selected from the second set of markers to form a proliferation phase marker score.

[0191] In certain instances, the presence or level of various markers such as an inflammatory phase marker, a growth factor marker, a repair factor marker, an anti-inflammatory marker, a proliferation phase marker, or a serology marker is detected at the level of mRNA expression with an assay such as, for example, a hybridization assay or an amplification-based assay.

[0192] In other instances, the presence or level of various markers such as an inflammatory phase marker, a growth factor marker, a repair factor marker, an anti-inflammatory marker, an anti-drug antibody (ADA), a proliferation phase marker, a serology marker, or an anti-TNF α antibody is detected at the level of protein expression using, for example, an immunoassay (*e.g.*, ELISA or CEER), a homogeneous mobility shift assay (HMSA) or an immunohistochemical assay.

[0193] Suitable ELISA kits for determining the presence or level of a growth factor, an inflammatory marker, or an anti-inflammatory marker in a serum, plasma, saliva, or urine sample are available from, *e.g.*, Antigenix America Inc. (Huntington Station, NY), Promega (Madison, WI), R&D Systems, Inc. (Minneapolis, MN), Invitrogen (Camarillo, CA), CHEMICON International, Inc. (Temecula, CA), Neogen Corp. (Lexington, KY), PeproTech (Rocky Hill, NJ),

Alpco Diagnostics (Salem, NH), Pierce Biotechnology, Inc. (Rockford, IL), and/or Abazyme (Needham, MA).

[0194] In other instances, the presence or level of various markers such as an inflammatory phase marker, a growth factor marker, a repair factor marker, an anti-inflammatory marker, a proliferation phase marker, or a serology marker is detected using a multiplexed immunoarray, such as a Collaborative Enzyme Enhanced Reactive ImmunoAssay (CEER), also known as the Collaborative Proximity Immunoassay (COPIA). CEER is described in the following patent documents which are herein incorporated by reference in their entirety for all purposes: PCT Publication Nos. WO 2008/036802, WO 2009/012140, WO 2009/108637, WO 2010/132723, WO 2011/008990, WO 2011/050069; WO 2012/088337; WO 2012/119113; and WO 2013/033623.

[0195] Suitable anti-repair factor antibodies useful in determining the level of a selected growth factor in a sample include, without limitation, an antibody that recognizes (binds to, forms a complex with, is specific for) a selected growth factor protein, a growth factor polypeptide having substantially the same amino acid sequence as the selected growth factor protein, or a fragment thereof such as an immunoreactive fragment thereof. A growth factor polypeptide generally describes polypeptides having an amino acid sequence with greater than about 50% identity, preferably greater than about 60% identity, more preferably greater than about 70% identity, still more preferably greater than about 80%, 85%, 90%, 95%, 96%, 97%, 98%, or 99% amino acid sequence identity with a growth factor protein, with the amino acid identity determined using a sequence alignment program such as CLUSTALW. Suitable antibodies for determining the level of a growth factor are available from, *e.g.*, Promega (Madison, WI), R&D Systems, Inc. (Minneapolis, MN), Invitrogen (Camarillo, CA), CHEMICON International, Inc. (Temecula, CA), Abcam (Cambridge, MA), Santa Cruz Biotechnology (Santa Cruz, CA), and Dako (Carpinteria, CA).

C. Inflammatory Phase Markers

[0196] In certain aspects, any of a variety of inflammatory phase markers, including but not limited to biochemical markers, serological markers, protein markers, and/or other clinical characteristics, are useful in the methods of the present invention. In particular embodiments, the methods herein facilitate predicting the likelihood of mucosal healing and monitoring the

progression of mucosal healing based upon one or more inflammatory phase markers. In other embodiments, the methods herein facilitate selecting therapy, optimizing therapy, reducing toxicity, and/or monitoring the efficacy of therapeutic treatment with one or more therapeutic agents such as biologics (*e.g.*, anti-TNF drugs). In preferred embodiments, the methods herein
 5 utilize the determination of an inflammatory phase marker score based upon one or more (a plurality of) inflammatory phase markers (*e.g.*, alone or in combination with biomarkers from other categories) to aid or assist in predicting the likelihood of mucosal healing, monitoring the progression of mucosal healing, predicting disease course, selecting an appropriate anti-TNF drug therapy, optimizing anti-TNF drug therapy, reducing toxicity associated with anti-TNF drug
 10 therapy, and/or monitoring the efficacy of therapeutic treatment with an anti-TNF drug.

[0197] Non-limiting examples of inflammatory phase markers include cytokines, chemokines, acute phase proteins, cellular adhesion molecules, S100 proteins, serology markers, and/or other inflammatory markers.

[0198] Inflammatory phase markers that can be used to establish a marker score include, but
 15 are not limited to, at least one or a plurality (*e.g.*, at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, or 21, such as, *e.g.*, a panel or an array) of the following markers: TNF- α , IL-12p70, IL-1 β , IL-2, IL-6, IL8, SDF-1, GM-CSF, IL-13, IFN- γ , SAA, CRP, ICAM, VCAM, TWEAK, ASCA-A, ASCA-G, Cbir, Fla2, FlaX, OmpC, and combinations thereof. In preferred embodiments, the inflammatory phase markers include one or more of GM-CSF, IL-2,
 20 VCAM, and combinations thereof.

1. Cytokines

[0199] The determination of the presence or level of at least one cytokine or chemokine in a sample is particularly useful in the present invention. As used herein, the term “cytokine” includes any of a variety of polypeptides or proteins secreted by immune cells that regulate a
 25 range of immune system functions and encompasses small cytokines such as chemokines. The term “cytokine” also includes adipocytokines, which comprise a group of cytokines secreted by adipocytes that function, for example, in the regulation of body weight, hematopoiesis, angiogenesis, wound healing, insulin resistance, the immune response, and the inflammatory response.

[0200] In certain embodiments, the presence or level of at least one cytokine including, but not limited to, granulocyte-macrophage colony-stimulating factor (GM-CSF), IFN- γ , IL-1 β , IL-2, IL-6, IL-8, TNF- α , soluble tumor necrosis factor- α receptor II (sTNF RII), TNF-related weak inducer of apoptosis (TWEAK), osteoprotegerin (OPG), IFN- α , IFN- β , IL-1 α , IL-1 receptor antagonist (IL-1ra), IL-4, IL-5, soluble IL-6 receptor (sIL-6R), IL-7, IL-9, IL-12, IL-13, IL-15, IL-17, IL-23, and IL-27 is determined in a sample.

[0201] In certain other embodiments, the presence or level of at least one chemokine such as, for example, CXCL1/GRO1/GRO α , CXCL2/GRO2, CXCL3/GRO3, CXCL4/PF-4, CXCL5/ENA-78, CXCL6/GCP-2, CXCL7/NAP-2, CXCL9/MIG, CXCL10/IP-10, CXCL11/I-TAC, CXCL12/SDF-1, CXCL13/BCA-1, CXCL14/BRAK, CXCL15, CXCL16, CXCL17/DMC, CCL1, CCL2/MCP-1, CCL3/MIP-1 α , CCL4/MIP-1 β , CCL5/RANTES, CCL6/C10, CCL7/MCP-3, CCL8/MCP-2, CCL9/CCL10, CCL11/Eotaxin, CCL12/MCP-5, CCL13/MCP-4, CCL14/HCC-1, CCL15/MIP-5, CCL16/LEC, CCL17/TARC, CCL18/MIP-4, CCL19/MIP-3 β , CCL20/MIP-3 α , CCL21/SLC, CCL22/MDC, CCL23/MPIF1, CCL24/Eotaxin-2, CCL25/TECK, CCL26/Eotaxin-3, CCL27/CTACK, CCL28/MEC, CL1, CL2, and CX₃CL1 is determined in a sample. In certain further embodiments, the presence or level of at least one adipocytokine including, but not limited to, leptin, adiponectin, resistin, active or total plasminogen activator inhibitor-1 (PAI-1), visfatin, and retinol binding protein 4 (RBP4) is determined in a sample. Preferably, the presence or level of SDF-1, GM-CSF, IFN- γ , IL-1 β , IL-2, IL-6, IL-8, TNF- α , sTNF RII, and/or other cytokines or chemokines is determined.

[0202] In certain instances, the presence or level of a particular cytokine or chemokine marker is detected at the level of mRNA expression with an assay such as, for example, a hybridization assay or an amplification-based assay. In certain other instances, the presence or level of a particular cytokine or chemokine is detected at the level of protein expression using, for example, an immunoassay (*e.g.*, ELISA), an immunohistochemical assay, or a multiplexed immunoarray, such as a Collaborative Enzyme Enhanced Reactive ImmunoAssay (CEER), also known as the Collaborative Proximity Immunoassay (COPIA). Suitable ELISA kits for determining the presence or level of a cytokine or chemokine of interest in a serum, plasma, saliva, or urine sample are available from, *e.g.*, R&D Systems, Inc. (Minneapolis, MN), Neogen Corp. (Lexington, KY), Alpco Diagnostics (Salem, NH), Assay Designs, Inc. (Ann Arbor, MI),

BD Biosciences Pharmingen (San Diego, CA), Invitrogen (Camarillo, CA), Calbiochem (San Diego, CA), CHEMICON International, Inc. (Temecula, CA), Antigenix America Inc. (Huntington Station, NY), QIAGEN Inc. (Valencia, CA), Bio-Rad Laboratories, Inc. (Hercules, CA), and/or Bender MedSystems Inc. (Burlingame, CA).

5 [0203] The human IL-1 β polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_000567. The human IL-1 β mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_000576. One skilled in the art will appreciate that IL-1 β is also known as IL1F2 and IL-1beta.

10 [0204] The human IL-2 polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_000577. The human IL-2 mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_000586. One skilled in the art will appreciate that IL-2 is also known as TCGF and lymphokine.

15 [0205] The human IL-6 polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_000591. The human IL-6 mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_000600. One skilled in the art will appreciate that IL-6 is also known as interferon beta 2 (IFNB2), HGF, HSF, and BSF2.

20 [0206] The human IL-8 polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_000575. The human IL-8 mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_000584. One skilled in the art will appreciate that IL-8 is also known as CXCL8, K60, NAF, GCP1, LECT, LUCT, NAPI, 3-10C, GCP-1, LYNAP, MDNCF, MONAP, NAP-1, SCYB8, TSG-1, AMCF-I, and b-ENAP.

25 [0207] The human GM-CSF polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_000749. The human GM-CSF mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_000758. One skilled in the art will appreciate that GM-CSF is also known as granulocyte-macrophage colony stimulating factor, colony stimulating factor 2 (granulocyte-macrophage), GSF2 and GMCSF.

[0208] The human IFN γ polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_000610. The human IFN γ mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession

No. NM_000619. One skilled in the art will appreciate that GM-CSF is also known as interferon gamma, IFNG, IFG, IFI, and IFN gamma.

[0209] The human TNF α polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_000585. The human TNF α mRNA (coding) sequence is set forth in, *e.g.*, Genbank
 5 Accession No. NM_000594. One skilled in the art will appreciate that TNF α is also known as tumor necrosis factor, TNF, DIF, TNF-alpha, TNFA, and TNFSF2.

[0210] The human TNF-related weak inducer of apoptosis (TWEAK) polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_003800.1. The human TWEAK mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_003809.2. One skilled in the art will
 10 appreciate that TWEAK is also known as TNF12, APO3 ligand, APO3L, DR3LG, and UNQ181/PRO207.

2. Acute Phase Proteins

[0211] The determination of the presence or level of one or more acute-phase proteins in a sample is also useful in the present invention. Acute-phase proteins are a class of proteins whose
 15 plasma concentrations increase (positive acute-phase proteins) or decrease (negative acute-phase proteins) in response to inflammation. This response is called the acute-phase reaction (also called acute-phase response). Examples of positive acute-phase proteins include, but are not limited to, C-reactive protein (CRP), D-dimer protein, mannose-binding protein, alpha 1-antitrypsin, alpha 1-antichymotrypsin, alpha 2-macroglobulin, fibrinogen, prothrombin, factor
 20 VIII, von Willebrand factor, plasminogen, complement factors, ferritin, serum amyloid P component, serum amyloid A (SAA), orosomucoid (alpha 1-acid glycoprotein, AGP), ceruloplasmin, haptoglobin, and combinations thereof. Non-limiting examples of negative acute-phase proteins include albumin, transferrin, transthyretin, transcortin, retinol-binding protein, and combinations thereof. Preferably, the presence or level of CRP and/or SAA is
 25 determined.

[0212] In certain instances, the presence or level of a particular acute-phase protein is detected at the level of mRNA expression with an assay such as, for example, a hybridization assay or an amplification-based assay. In certain other instances, the presence or level of a particular acute-phase protein is detected at the level of protein expression using, for example, an immunoassay

(*e.g.*, ELISA), an immunohistochemical assay, or a multiplexed immunoarray, such as a Collaborative Enzyme Enhanced Reactive ImmunoAssay (CEER), also known as the Collaborative Proximity Immunoassay (COPIA). For example, a sandwich colorimetric ELISA assay available from Alpco Diagnostics (Salem, NH) can be used to determine the level of CRP in a serum, plasma, urine, or stool sample. Similarly, an ELISA kit available from Biomeda Corporation (Foster City, CA) can be used to detect CRP levels in a sample. Other methods for determining CRP levels in a sample are described in, *e.g.*, U.S. Patent Nos. 6,838,250; 6,406,862; 7,439,019; and U.S. Patent Publication No. 20060019410. Additional methods for determining CRP levels include, *e.g.*, immunoturbidimetry assays, rapid immunodiffusion assays, and visual agglutination assays. Suitable ELISA kits for determining the presence or level of SAA in a sample such as serum, plasma, saliva, urine, or stool are available from, *e.g.*, Antigenix America Inc. (Huntington Station, NY), Abazyme (Needham, MA), USCN Life (Missouri City, TX), and/or U.S. Biological (Swampscott, MA).

[0213] C-reactive protein (CRP) is a protein found in the blood in response to inflammation (an acute-phase protein). CRP is typically produced by the liver and by fat cells (adipocytes). It is a member of the pentraxin family of proteins. The human CRP polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_000558. The human CRP mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_000567. One skilled in the art will appreciate that CRP is also known as PTX1, MGC88244, and MGC149895.

[0214] Serum amyloid A (SAA) proteins are a family of apolipoproteins associated with high-density lipoprotein (HDL) in plasma. Different isoforms of SAA are expressed constitutively (constitutive SAAs) at different levels or in response to inflammatory stimuli (acute phase SAAs). These proteins are predominantly produced by the liver. The conservation of these proteins throughout invertebrates and vertebrates suggests SAAs play a highly essential role in all animals. Acute phase serum amyloid A proteins (A-SAAs) are secreted during the acute phase of inflammation. The human SAA polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_000322. The human SAA mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_000331. One skilled in the art will appreciate that SAA is also known as PIG4, TP53I4, MGC111216, and SAA1.

3. Immunoglobulin Proteins

[0215] The determination of the presence or level of one or more immunoglobulin superfamily cellular adhesion molecules in a sample is also useful in the present invention. As used herein, the term “immunoglobulin superfamily cellular adhesion molecule” (IgSF CAM) includes any of a variety of polypeptides or proteins located on the surface of a cell that have one or more immunoglobulin-like fold domains, and which function in intercellular adhesion and/or signal transduction. In many cases, IgSF CAMs are transmembrane proteins. Non-limiting examples of IgSF CAMs include Neural Cell Adhesion Molecules (NCAMs; *e.g.*, NCAM-120, NCAM-125, NCAM-140, NCAM-145, NCAM-180, NCAM-185, *etc.*), Intercellular Adhesion Molecules (ICAMs, *e.g.*, ICAM-1, ICAM-2, ICAM-3, ICAM-4, and ICAM-5), Vascular Cell Adhesion Molecule-1 (VCAM-1), Platelet-Endothelial Cell Adhesion Molecule-1 (PECAM-1), L1 Cell Adhesion Molecule (L1CAM), cell adhesion molecule with homology to L1CAM (close homolog of L1) (CHL1), sialic acid binding Ig-like lectins (SIGLECs; *e.g.*, SIGLEC-1, SIGLEC-2, SIGLEC-3, SIGLEC-4, *etc.*), Nectins (*e.g.*, Nectin-1, Nectin-2, Nectin-3, *etc.*), and Nectin-like molecules (*e.g.*, Necl-1, Necl-2, Necl-3, Necl-4, and Necl-5). Preferably, the presence or level of ICAM-1 and/or VCAM-1 is determined.

[0216] ICAM-1 (ICAM) is a transmembrane cellular adhesion protein that is continuously present in low concentrations in the membranes of leukocytes and endothelial cells. Upon cytokine stimulation, the concentrations greatly increase. ICAM-1 can be induced by IL-1 and TNF α and is expressed by the vascular endothelium, macrophages, and lymphocytes. In IBD, proinflammatory cytokines cause inflammation by upregulating expression of adhesion molecules such as ICAM-1 and VCAM-1. The increased expression of adhesion molecules recruit more lymphocytes to the infected tissue, resulting in tissue inflammation (*see*, Goke *et al.*, *J. Gastroenterol.*, 32:480 (1997); and Rijcken *et al.*, *Gut*, 51:529 (2002)). ICAM-1 is encoded by the intercellular adhesion molecule 1 gene (ICAM1; Entrez GeneID:3383; Genbank Accession No. NM_000201) and is produced after processing of the intercellular adhesion molecule 1 precursor polypeptide (Genbank Accession No. NP_000192).

[0217] VCAM-1 (VCAM) is a transmembrane cellular adhesion protein that mediates the adhesion of lymphocytes, monocytes, eosinophils, and basophils to vascular endothelium. Upregulation of VCAM-1 in endothelial cells by cytokines occurs as a result of increased gene

transcription (*e.g.*, in response to tumor necrosis factor- α (TNF α) and Interleukin-1 (IL-1)). VCAM-1 is encoded by the vascular cell adhesion molecule 1 gene (VCAM1; Entrez GeneID:7412) and is produced after differential splicing of the transcript (Genbank Accession No. NM_001078 (variant 1) or NM_080682 (variant 2)), and processing of the precursor
 5 polypeptide splice isoform (Genbank Accession No. NP_001069 (isoform a) or NP_542413 (isoform b)).

[0218] In certain instances, the presence or level of an IgSF CAM is detected at the level of mRNA expression with an assay such as, for example, a hybridization assay or an amplification-based assay. In certain other instances, the presence or level of an IgSF CAM is detected at the
 10 level of protein expression using, for example, an immunoassay (*e.g.*, ELISA), an immunohistochemical assay, or a multiplexed immunoarray, such as a Collaborative Enzyme Enhanced Reactive ImmunoAssay (CEER), also known as the Collaborative Proximity Immunoassay (COPIA). Suitable antibodies and/or ELISA kits for determining the presence or level of ICAM-1 and/or VCAM-1 in a sample such as a tissue sample, biopsy, serum, plasma,
 15 saliva, urine, or stool are available from, *e.g.*, Invitrogen (Camarillo, CA), Santa Cruz Biotechnology, Inc. (Santa Cruz, CA), and/or Abcam Inc. (Cambridge, MA).

4. Anti-Inflammatory Markers

[0219] In certain embodiments, a variety of anti-inflammatory markers are particularly useful in the methods of the present invention. In particular embodiments, the methods herein utilize
 20 the determination of an inflammatory phase marker score based upon one or more (a plurality of) anti-inflammatory markers (*e.g.*, alone or in combination with biomarkers from other categories) to aid or assist in predicting the likelihood of mucosal healing, monitoring the progression of mucosal healing, predicting disease course, selecting an appropriate anti-TNF drug therapy, optimizing anti-TNF drug therapy, reducing toxicity associated with anti-TNF drug therapy,
 25 and/or monitoring the efficacy of therapeutic treatment with an anti-TNF drug.

[0220] In certain instances, the presence or level of a particular anti-inflammatory marker is detected at the level of mRNA expression with an assay such as, for example, a hybridization assay or an amplification-based assay. In certain other instances, the presence or level of a particular anti-inflammatory marker is detected at the level of protein expression using, for

example, an immunoassay (*e.g.*, ELISA), an immunohistochemical assay, or a multiplexed immunoarray, such as a Collaborative Enzyme Enhanced Reactive ImmunoAssay (CEER), also known as the Collaborative Proximity Immunoassay (COPIA).

[0221] The human IL-12p70 polypeptide is a heterodimer made up of two subunits of IL-12 proteins: one is 40kDa (IL-12p40) and one is 35kDa (IL-12p35). Suitable ELISA kits for determining the presence or level of IL-12p70 in a serum, plasma, saliva, or urine sample are available from, *e.g.*, Gen-Probe Diaclone SAS (France), Abazyme (Needham, MA), BD Biosciences Pharmingen (San Diego, CA), Cell Sciences (Canton, MA), eBioscience (San Diego, CA), Invitrogen (Camarillo, CA), R&D Systems, Inc. (Minneapolis, MN), and Thermo Scientific Pierce Protein Research Products (Rockford, IL).

5. Serology Markers

[0222] In certain aspects, the methods of the present invention utilize the determination of an inflammatory phase marker score based upon one or more (a plurality of) serological immune markers (*e.g.*, alone or in combination with biomarkers from other categories) to aid or assist in predicting the likelihood of mucosal healing, monitoring the progression of mucosal healing, predicting disease course, selecting an appropriate anti-TNF drug therapy, optimizing anti-TNF drug therapy, reducing toxicity associated with anti-TNF drug therapy, and/or monitoring the efficacy of therapeutic treatment with an anti-TNF drug.

[0223] Non-limiting examples of serological immune markers suitable for use in the present invention include anti-neutrophil antibodies, anti-*Saccharomyces cerevisiae* antibodies, and/or other anti-microbial antibodies. Mucosal healing can also result in a decrease in the antibody titer of antibodies to bacterial antigens such as, *e.g.*, OmpC, flagellins (cBir-1, Fla-A, Fla-X, *etc.*), I2, and others (pANCA, ASCA, *etc.*).

[0224] The determination of ASCA (*e.g.*, ASCA-IgA and/or ASCA-IgG) levels in a sample is useful in the present invention. As used herein, the term “anti-*Saccharomyces cerevisiae* immunoglobulin A” or “ASCA-IgA” includes antibodies of the immunoglobulin A isotype that react specifically with *S. cerevisiae*. Similarly, the term “anti-*Saccharomyces cerevisiae* immunoglobulin G” or “ASCA-IgG” includes antibodies of the immunoglobulin G isotype that react specifically with *S. cerevisiae*.

[0225] The determination of whether a sample is positive for ASCA-IgA or ASCA-IgG is made using an antigen specific for ASCA. Such an antigen can be any antigen or mixture of antigens that is bound specifically by ASCA-IgA and/or ASCA-IgG. Although ASCA antibodies were initially characterized by their ability to bind *S. cerevisiae*, those of skill in the art will understand that an antigen that is bound specifically by ASCA can be obtained from *S. cerevisiae* or from a variety of other sources so long as the antigen is capable of binding specifically to ASCA antibodies. Accordingly, exemplary sources of an antigen specific for ASCA, which can be used to determine the levels of ASCA-IgA and/or ASCA-IgG in a sample, include, without limitation, whole killed yeast cells such as *Saccharomyces* or *Candida* cells; yeast cell wall mannan such as phosphopeptidomannan (PPM); oligosaccharides such as oligomannosides; neoglycolipids; anti-ASCA idiotypic antibodies; and the like. Different species and strains of yeast, such as *S. cerevisiae* strain Su1, Su2, CBS 1315, or BM 156, or *Candida albicans* strain VW32, are suitable for use as an antigen specific for ASCA-IgA and/or ASCA-IgG. Purified and synthetic antigens specific for ASCA are also suitable for use in determining the levels of ASCA-IgA and/or ASCA-IgG in a sample. Examples of purified antigens include, without limitation, purified oligosaccharide antigens such as oligomannosides. Examples of synthetic antigens include, without limitation, synthetic oligomannosides such as those described in U.S. Patent Publication No. 20030105060, *e.g.*, D-Man $\beta(1-2)$ D-Man $\beta(1-2)$ D-Man $\beta(1-2)$ D-Man-OR, D-Man $\alpha(1-2)$ D-Man $\alpha(1-2)$ D-Man $\alpha(1-2)$ D-Man-OR, and D-Man $\alpha(1-3)$ D-Man $\alpha(1-2)$ D-Man $\alpha(1-2)$ D-Man-OR, wherein R is a hydrogen atom, a C₁ to C₂₀ alkyl, or an optionally labeled connector group.

[0226] Preparations of yeast cell wall mannans, *e.g.*, PPM, can be used in determining the levels of ASCA-IgA and/or ASCA-IgG in a sample. Such water-soluble surface antigens can be prepared by any appropriate extraction technique known in the art, including, for example, by autoclaving, or can be obtained commercially (*see, e.g.*, Lindberg *et al.*, *Gut*, 33:909-913 (1992)). The acid-stable fraction of PPM is also useful in the present invention (Sendid *et al.*, *Clin. Diag. Lab. Immunol.*, 3:219-226 (1996)). An exemplary PPM that is useful in determining ASCA levels in a sample is derived from *S. uvarum* strain ATCC #38926.

[0227] Purified oligosaccharide antigens such as oligomannosides can also be useful in determining the levels of ASCA-IgA and/or ASCA-IgG in a sample. The purified

oligomannoside antigens are preferably converted into neoglycolipids as described in, for example, Faille *et al.*, *Eur. J. Microbiol. Infect. Dis.*, 11:438-446 (1992). One skilled in the art understands that the reactivity of such an oligomannoside antigen with ASCA can be optimized by varying the mannosyl chain length (Frosh *et al.*, *Proc Natl. Acad. Sci. USA*, 82:1194-1198 (1985)); the anomeric configuration (Fukazawa *et al.*, In “Immunology of Fungal Disease,” E. Kurstak (ed.), Marcel Dekker Inc., New York, pp. 37-62 (1989); Nishikawa *et al.*, *Microbiol. Immunol.*, 34:825-840 (1990); Poulain *et al.*, *Eur. J. Clin. Microbiol.*, 23:46-52 (1993); Shibata *et al.*, *Arch. Biochem. Biophys.*, 243:338-348 (1985); Trinel *et al.*, *Infect. Immun.*, 60:3845-3851 (1992)); or the position of the linkage (Kikuchi *et al.*, *Planta*, 190:525-535 (1993)).

[0228] Suitable oligomannosides for use in the methods of the present invention include, without limitation, an oligomannoside having the mannotetraose Man(1-3) Man(1-2) Man(1-2) Man. Such an oligomannoside can be purified from PPM as described in, *e.g.*, Faille *et al.*, *supra*. An exemplary neoglycolipid specific for ASCA can be constructed by releasing the oligomannoside from its respective PPM and subsequently coupling the released oligomannoside to 4-hexadecylaniline or the like.

[0229] The determination of anti-OmpC antibody levels in a sample is also useful in the present invention. As used herein, the term “anti-outer membrane protein C antibody” or “anti-OmpC antibody” includes antibodies directed to a bacterial outer membrane porin as described in, *e.g.*, PCT Patent Publication No. WO 01/89361. The term “outer membrane protein C” or “OmpC” refers to a bacterial porin that is immunoreactive with an anti-OmpC antibody.

[0230] The level of anti-OmpC antibody present in a sample from an individual can be determined using an OmpC protein or a fragment thereof such as an immunoreactive fragment thereof. Suitable OmpC antigens useful in determining anti-OmpC antibody levels in a sample include, without limitation, an OmpC protein, an OmpC polypeptide having substantially the same amino acid sequence as the OmpC protein, or a fragment thereof such as an immunoreactive fragment thereof. As used herein, an OmpC polypeptide generally describes polypeptides having an amino acid sequence with greater than about 50% identity, preferably greater than about 60% identity, more preferably greater than about 70% identity, still more preferably greater than about 80%, 85%, 90%, 95%, 96%, 97%, 98%, or 99% amino acid sequence identity with an OmpC protein, with the amino acid identity determined using a

sequence alignment program such as CLUSTALW. Such antigens can be prepared, for example, by purification from enteric bacteria such as *E. coli*, by recombinant expression of a nucleic acid such as Genbank Accession No. K00541, by synthetic means such as solution or solid phase peptide synthesis, or by using phage display.

5 [0231] The determination of anti-flagellin antibody levels in a sample is also useful in the present invention. As used herein, the term “anti-flagellin antibody” includes antibodies directed to a protein component of bacterial flagella as described in, *e.g.*, PCT Patent Publication Nos. WO 03/053220 and WO 07/087576; and U.S. Patent Nos. 7,361,733 and 7,868,139. The term “flagellin” refers to a bacterial flagellum protein that is immunoreactive with an anti-flagellin
10 antibody. Microbial flagellins are proteins found in bacterial flagellum that arrange themselves in a hollow cylinder to form the filament.

[0232] The level of anti-flagellin antibody present in a sample from an individual can be determined using a flagellin protein or a fragment thereof such as an immunoreactive fragment thereof. Suitable flagellin antigens useful in determining anti-flagellin antibody levels in a
15 sample include, without limitation, a flagellin protein such as CBir-1 flagellin, flagellin X (FlaX), flagellin A, flagellin B, Fla2 (A4-Fla2), FliC, fragments thereof such as immunoreactive fragments thereof, flagellin polypeptides having substantially the same amino acid sequence as a flagellin protein, and combinations thereof. As used herein, a flagellin polypeptide generally describes polypeptides having an amino acid sequence with greater than about 50% identity,
20 preferably greater than about 60% identity, more preferably greater than about 70% identity, still more preferably greater than about 80%, 85%, 90%, 95%, 96%, 97%, 98%, or 99% amino acid sequence identity with a naturally-occurring flagellin protein, with the amino acid identity determined using a sequence alignment program such as CLUSTALW. Such flagellin antigens can be prepared, *e.g.*, by purification from bacterium such as *Helicobacter Bilis*, *Helicobacter*
25 *mustelae*, *Helicobacter pylori*, *Butyrivibrio fibrisolvens*, and bacterium found in the cecum, by recombinant expression of a nucleic acid encoding a flagellin antigen, by synthetic means such as solution or solid phase peptide synthesis, or by using phage display.

D. Proliferation Phase Markers

[0233] In certain aspects, the determination of the presence and/or level of at least one or more
30 proliferation phase markers (*e.g.*, repair factor markers, anti-inflammatory markers, anti-TNF α

antibody) in a sample is useful in the present invention. As used herein, the term “repair factor” includes any of a variety of peptides, polypeptides, or proteins capable of stimulating cellular proliferation and/or cellular differentiation.

[0234] In particular embodiments, at least one or a plurality (*e.g.*, at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, or 24, such as, *e.g.*, a panel or an array) of the following repair factor markers can be detected or measured (*e.g.*, alone or in combination with biomarkers from other categories) and used to form a proliferation phase marker score to aid or assist in predicting the likelihood of mucosal healing, monitoring the progression of mucosal healing, predicting disease course, and/or to improve the accuracy of selecting therapy, optimizing therapy, reducing toxicity, and/or monitoring the efficacy of therapeutic treatment to anti-TNF drug therapy: EGF, AREG, EREG, HBEGF, HGF, HRGB, BTC, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, TWEAK, and combinations thereof.

[0235] Non-limiting examples of repair factors include epidermal growth factor (EGF), heparin binding epidermal growth factor (HB-EGF), amphiregulin (AREG), betacellulin (BTC), epiregulin (EREG), heregulin and variants thereof (HRG α , HRG β 1, HRG β 2, HRG β 3, HRG γ), neuregulin 1 (NRG1) and isoforms thereof (*e.g.* type I NRG1 (also known as neu differentiation factor (NDF), heregulin, or acetylcholine receptor inducing activity), type II NRG1 (also known as glial growth factor 2 (GGF2)), type III NRG1 (also known as sensory and motor neuron-derived factor (SMDF)), type IV NRG1, type V NRG1, type VI NRG1), neuregulin 2 (NRG2), neuregulin 3 (NRG3), neuregulin 4 (NRG4), vascular endothelial growth factors (VEGF-A, VEGF-B, VEGF-C, VEGF-D), platelet derived growth factors (PDGF-A, PDGF-B, PDGF-C, PDGF-D), fibroblast growth factors (FGF1, FGF2, FGF3, FGF4, FGF5, FGF6, FGF7, FGF8, FGF9, FGF10, FGF11, FGF12, FGF13, FGF14, FGF16, FGF17, FGF18, FGF19, FGF20, FGF21, FGF22, FGF23, *etc.*), stem cell factor (SCF), transforming growth factor (TGFA, TGFB (TGFB)), endothelin 3 (EDN3), hepatocyte growth factor (HGF), insulin growth factor-1 (IGF-1), interleukin 10 (IL-10) and combinations thereof.

[0236] In other embodiments, repair factors also include platelet-derived growth factor (PDGF), soluble fms-like tyrosine kinase 1 (sFlt1), placenta growth factor (PIGF, PLGF or PGF), pigment epithelium-derived factor (PEDF, also known as SERPINF1), endothelin-1 (ET-

1), keratinocyte growth factor (KGF), bone morphogenetic proteins (*e.g.*, BMP1-BMP15), platelet-derived growth factor (PDGF), nerve growth factor (NGF), β -nerve growth factor (β -NGF), neurotrophic factors (*e.g.*, brain-derived neurotrophic factor (BDNF), neurotrophin 3 (NT3), neurotrophin 4 (NT4), *etc.*), growth differentiation factor-9 (GDF-9), granulocyte-colony stimulating factor (G-CSF), myostatin (GDF-8), erythropoietin (EPO), thrombopoietin (TPO), and combinations thereof.

[0237] The human amphiregulin (AREG) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAA51781.1. The human AREG mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession Nos. NM_001657.2 and XM_001125684.3. One skilled in the art will appreciate that AREG is also known as AR, colorectum cell-derived growth factor, CRDGF, SDGF, and AREGB.

[0238] The human epiregulin (EREG) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. BAA22146.1. The human EREG mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_001432.2. One skilled in the art will appreciate that EREG is also known as EPR.

[0239] The human heparin-binding EGF-like growth factor (HB-EGF) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAA35956.1. The human HB-EGF mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_001945.2. One skilled in the art will appreciate that HB-EGF is also known as diphtheria toxin receptor, DT-R, HBEGF, DTR, DTS, and HEGFL.

[0240] The human hepatocyte growth factor (HGF) polypeptide sequence is set forth in, *e.g.*, ncbi Accession No. NP_000592.3. The human HGF mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession Nos. NM_000601.4, NM_001010931.1, NM_001010932.1, NM_001010933.1 and NM_001010934.1. One skilled in the art will appreciate that HGF is also known as scatter factor, SF, HPTA and hepatopoietin-A. One of skill will also appreciate that HGF includes all isoform variants.

[0241] The human heregulin β (HRG β) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. ABY70644.1. One of skill will also appreciate that HRG β includes all isoform variants.

[0242] The human betacellulin (BTC) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAB25452.1. The human BTC mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_001729.2. One skilled in the art will appreciate that BTC includes all isoform variants.

5 [0243] The human epidermal growth factor (EGF) polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. AAI13462.1. The human EGF mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession Nos. NM_001963.4 and NM_001178131.1. One skilled in the art will appreciate that EGF is also known as beta-urogastrone, urogastrone, URG, and HOMG4. One skilled in the art will appreciate that EGF includes all isoform variants.

10 [0244] The human transforming growth factor alpha (TGF- α) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAA61159.1. The human TGF- α mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession Nos. NM_003236.3 and NM_001099691.2. One skilled in the art will appreciate that TGF- α includes all isoform variants. One skilled in the art will also appreciate that TGF- α is also known as TGFA, EGF-like TGF, ETGF, and TGF type 1.

15 [0245] The human transforming growth factor alpha (TGF- β or TGFB) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAH00125.1. One skilled in the art will appreciate that TGF- β includes all isoform variants.

[0246] The human vascular endothelial growth factor (VEGF-A) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAA35789.1. The human VEGF-A mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_001025366, NM_001025367, NM_001025368, NM_001025369, NM_001025370, NM_001033756, and NM_003376. One skilled in the art will appreciate that VEGF-A is also known as VPF, VEGFA, VEGF, and MGC70609. One skilled in the art will appreciate that VEGF-A includes all isoform variants.

25 [0247] The human vascular endothelial growth factor (VEGF-B) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAH08818.1. The human VEGF-B mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession Nos. NM_001243733 and NM_003377. One skilled in the art will appreciate that VEGF-B is also known as VEGFB, VEGF-related factor, and VRF. One skilled in the art will appreciate that VEGF-B includes all isoform variants.

[0248] The human vascular endothelial growth factor (VEGF-C) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAH63685.1. The human VEGF-C mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_005429. One skilled in the art will appreciate that VEGF-C is also known as VEGFC, Flt4 ligand, Flt4-L, VRP and vascular endothelial growth factor-related protein. One skilled in the art will appreciate that VEGF-C includes all isoform variants.

[0249] The human vascular endothelial growth factor (VEGF-D) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. NP_004460.1. One skilled in the art will appreciate that VEGF-D is also known as VEGFD, c-Fos induced growth factor or FIGF. One skilled in the art will appreciate that VEGF-D includes all isoform variants.

[0250] The human platelet-derived growth factor subunit A (PDGF-A) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAI09247.1. One skilled in the art will appreciate that PDGF-A is also known as PDGFA, PDGF subunit A, PDGF-1, platelet-derived growth factor A chain, and platelet-derived growth factor alpha polypeptide. One skilled in the art will appreciate that PDGF-A includes all isoform variants.

[0251] The human platelet-derived growth factor subunit B (PDGF-B) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. NP_002599.1. One skilled in the art will appreciate that PDGF-B is also known as PDGFB, PDGF subunit B, PDGF-2, platelet-derived growth factor B chain, proto-oncogene c-Sos, and platelet-derived growth factor beta polypeptide. One skilled in the art will appreciate that PDGF-B includes all isoform variants.

[0252] The human platelet-derived growth factor subunit C (PDGF-C) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAK51637.1. One skilled in the art will appreciate that PDGF-C is also known as PDGFC, PDGF subunit C, fallotin, spinal cord-derived growth factor, SCDGF, and VEGF-E. One skilled in the art will appreciate that PDGF-C includes all isoform variants.

[0253] The human platelet-derived growth factor subunit D (PDGF-D) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAK38840.1. One skilled in the art will appreciate that PDGF-D is also known as PDGFD, PDGF subunit D, iris-expressed growth factor, spinal cord-

dervied growth factor B, and SCDGF-B. One skilled in the art will appreciate that PDGF-D includes all isoform variants.

[0254] The human fibroblast growth factor 1 (FGF1) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAH32697.1. The human FGF1 mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession Nos. NM_000800, NM_001144892, NM_001144934, NM_001144934, NM_001144935, NM_033136 and NM_033137. One skilled in the art will appreciate that FGF1 is also known as FGFA, FGF-1, acidic fibroblast growth factor, aFGF, endothelial cell growth factor, ECGF, heparin-binding growth factor 1, and HB-EGF1. One skilled in the art will appreciate that FGF1 includes all isoform variants.

10 [0255] The human fibroblast growth factor (FGF2) polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_001997.5. The human FGF2 mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_002006.4. One skilled in the art will appreciate that FGF2 is also known as basic FGF, bFGF, and FGFB.

15 [0256] The human fibroblast growth factor (FGF4) polypeptide sequence is set forth in, *e.g.*, Genbank Accession No. NP_001998.1. One skilled in the art will appreciate that FGF4 is also known as heparin-secretory transforming protein 1, HST, HST-1, HSTF-1, heparin-binding growth factor 4, HBGF-4, and KS3.

20 [0257] The human fibroblast growth factor 7 (FGF7) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. CAG46799.1. The human FGF7 mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_002009.3. One skilled in the art will appreciate that FGF7 is also known as FGF-7, heparin-binding growth factor 7, HBGF-7 and keratinocyte growth factor.

25 [0258] The human fibroblast growth factor 9 (FGF9) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAT74624.1. The human FGF9 mRNA (coding) sequence is set forth in, *e.g.*, Genbank Accession No. NM_002010.2. One skilled in the art will appreciate that FGF9 is also known as heparin-binding growth factor 9, GAF, and HBGF-9.

[0259] The human fibroblast growth factor 19 (FGF19) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAQ88669.1. One skilled in the art will appreciate that FGF19 is also known as zFGF5. One skilled in the art will appreciate that FGF19 includes all isoform variants.

[0260] The human stem cell factor (SCF) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAI26167.1. One skilled in the art will appreciate that PDGF-A is also known as kit ligand, c-kit ligand, mast cell growth factor and MGF. One skilled in the art will appreciate that SCF includes all isoform variants.

5 [0261] The interleukin 10 (IL-10) polypeptide sequence is set forth in, *e.g.*, NCBI Accession No. AAI04253.1. One skilled in the art will appreciate that IL-10 includes all isoform variants.

E. Anti-TNF Drug Levels & Anti-Drug Antibody (ADA) Levels

[0262] In some embodiments, the method comprises determining the presence and/or level of a drug analyte in a patient sample (*e.g.*, a serum sample from a patient on anti-TNF drug therapy) to form an inflammatory phase marker score and/or proliferation phase marker score. In certain instances, the measurements can be made at multiple time points, *e.g.*, before, during, and/or after the course of therapy. In some embodiments, the drug analyte is an anti-TNF drug (*e.g.*, level of free anti-TNF α therapeutic antibody such as infliximab) and/or an anti-drug antibody (ADA) (*e.g.*, level of autoantibody to the anti-TNF drug such as HACA, HAHA, HAMA, and combinations thereof).

[0263] In particular embodiments, the presence and/or level of an anti-TNF drug and/or ADA is determined with a homogeneous mobility shift assay using size exclusion chromatography. These methods and related technology are described in PCT Publication Nos. WO 2011/056590, WO 2012/054532, WO 2012/154253 and WO 2013/006810, and in US Provisional Application No. 61/683,681, filed August 15, 2012, the disclosures of which are incorporated by reference in their entirety for all purposes. These methods are particularly advantageous for measuring the presence or level of TNF α inhibitors as well as autoantibodies (*e.g.*, HACA, HAHA, *etc.*) that are generated against them.

[0264] The method for determining the presence or level of an anti-TNF α drug in a sample can comprise: (a) contacting a labeled TNF α with a sample having an anti-TNF α drug to form a labeled complex with the anti-TNF α drug; (b) subjecting the labeled complex to size exclusion chromatography to separate the labeled complex from free labeled TNF α and to detect an amount of the labeled complex and an amount of the free labeled TNF α ; and (c) comparing the amount of the labeled complex and the amount of the free labeled TNF α detected in step (b) to a

standard curve of known amounts of the anti-TNF α drug, thereby determining the presence or level of the anti-TNF α drug.

[0265] The method for determining the presence or level of an autoantibody to an anti-TNF α drug in a sample can comprise: (a) contacting a labeled anti-TNF α drug with the sample to form
5 a labeled complex with the autoantibody; (b) subjecting the labeled complex to size exclusion chromatography to separate the labeled complex from free labeled anti-TNF α drug and to detect an amount of the labeled complex and an amount of the free labeled anti-TNF α drug; and (c) comparing the amount of the labeled complex and the amount of the free labeled anti-TNF α drug detected in step (b) to a standard curve of known amounts of the autoantibody, thereby
10 determining the presence or level of the autoantibody.

[0266] In certain embodiments, the methods are especially useful for the following anti-TNF α drugs: REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), and CIMZIA® (certolizumab pegol).

[0267] In other embodiments, the methods are especially useful for the following anti-drug
15 antibodies (ADA): human anti-chimeric antibody (HACA), human anti-humanized antibody (HAHA), and human anti-mouse antibody (HAMA).

[0268] In some embodiments, the method of detecting an anti-drug antibody includes determining the presence or level of anti-drug antibody (ADA) isotypes in ADA-positive patients receiving anti-TNF drug therapy. Non-limiting examples of antibody isotypes include IgA, IgD,
20 IgE, IgG, and IgM. In certain aspects, the detection of the presence or level of a specific ADA isotype or a particular combination of ADA isotypes is associated with different clinical outcomes.

[0269] Non-limiting examples of other methods for determining the presence and/or level of a drug analyte (*e.g.*, anti-TNF drug and/or anti-drug antibodies (ADA)) include enzyme-linked
25 immunosorbent assays (ELISAs) such as bridging ELISAs. For example, the Infliximab ELISA from Matriks Biotek Laboratories detects free infliximab in serum and plasma samples, and the HACA ELISA from PeaceHealth Laboratories detects HACA in serum samples.

F. Generating a Marker Score

[0270] In some embodiments, the methods of predicting the presence of mucosal healing and/or monitoring the progression of mucosal healing in an individual utilize an empirically derived score (*e.g.*, inflammatory phase score and proliferation phase score).

5 [0271] In addition, the methods of selecting an appropriate therapy, optimizing therapeutic efficiency and the like, include the use of the marker score to select, for example, a dose of drug, an appropriate drug, a course or length of therapy, a therapy regimen, or the maintenance of an existing drug or dose. In certain aspects, a derived or measured score can be used for selecting an appropriate therapeutic regimen that promotes mucosal healing.

10 [0272] In certain aspects, each marker is assigned a value based upon the concentration and level of the marker relative to a standard or a set of standards. In some embodiments, the value is selected from 0 to 6, *e.g.*, 0, 1, 2, 3, 4, 5, or 6. For example, if the level of a marker is below the level of the lowest standard, the marker is assigned a value of 0. If the level of a marker is between the first lowest standard and the second standard (from low to high), the marker is given
15 a value of 1. If the level of a marker is between the second standard and the third standard, the marker is given a value of 2. If the level of a marker is between the third standard and the fourth standard, the marker is given a value of 3. If the level of a marker is between the fourth standard and the fifth standard, the marker is given a value of 4. If the level of a marker is between the fifth standard and the sixth standard, the marker is given a value of 5. If the level of
20 a marker is even with the sixth standard or higher, the marker is given a value of 6. In certain embodiments, each marker can be assigned a value selected from 0 to 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 30, or any range therein (*e.g.*, from 1 to 6).

[0273] In certain aspects, each marker is assigned a value based upon the quantile level of the marker. In some embodiments, the value is selected from 0 to 6, *e.g.*, 0, 1, 2, 3, 4, 5, or 6. For
25 instance, the values are split into 7 groups (“a septile”) and the markers are assigned a value from 0 to 6 based on its quantile group. In certain embodiments, each marker can be assigned a value selected from 0 to 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 30, or any range therein (*e.g.*, from 1 to 6). For instance, the values are split into 12 groups and the markers are assigned a value from 0 to 11 based on its quantile group.

[0274] In some aspects, the concentration or level of each marker is relative to the level of the same marker in a control patient population, *e.g.*, a population or group of IBD patients that do not exhibit mucosal healing.

[0275] In some embodiments, the inflammatory phase marker score is the summation of the value of each marker in the first set of markers, such as one or more of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β , GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and an anti-drug antibody (ADA). In other embodiments, the value of each marker in the first set of markers includes one or more of GMCSF, IL-2, and VCAM.

[0276] In some embodiments, the proliferation phase marker score is the summation of the value of each marker in the second set of markers, such as one or more of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB, VEGFC, VEGFD, TGFB1, IL-10, and an anti-TNF α antibody. In other embodiments, the value of the marker in the second set of markers includes HGF.

[0277] In some embodiments, an algorithm is applied to the inflammatory marker score and the proliferation phase marker score. In particular embodiments, the algorithm allows for the comparison of the inflammatory marker score and the proliferation phase marker score to form or generate a biomarker score. As a non-limiting example, the biomarker score comprises the proliferation phase marker score (*e.g.*, sum of the proliferation phase marker values) minus the inflammatory phase marker score (*e.g.*, sum of the inflammatory phase marker values).

[0278] In some embodiments, the algorithm predicts the likelihood of mucosal healing and/or monitors the progression of mucosal healing independent of clinical confounders. For instance, one or more of the clinical confounders, *e.g.*, age of diagnosis, age of last sample, disease location, anal involvement, smoking, and surgery does not contribute to the algorithm for determining the likelihood of mucosal healing.

[0279] In some embodiments, the algorithm predicts the likelihood of mucosal healing and/or monitors the progression of mucosal healing without one or more serology markers, *e.g.*, ASCA-A, ASCA-G, CBir1, Fla2, FlaX, and OmpC, that are used to form the inflammatory phase

marker score. The algorithm remains predictive with the exclusion of one or more serology markers, *e.g.*, ASCA-A, ASCA-G, CBir1, Fla2, FlaX, and OmpC.

[0280] In some embodiments, the subject's biomarker score is compared to the biomarker score of a control patient population, such as a population wherein the patients have not undergone the inflammatory phase of mucosal healing, the proliferation phase of mucosal healing, a progression of mucosal healing, incomplete improvement of mucosal healing, and/or complete improvement of mucosal healing. For instance, if a subject's biomarker score is higher than the biomarker score of a patient population without mucosal healing, then the subject has an increased likelihood of having complete improvement of mucosal healing without relapse. If a subject's biomarker score is lower than the biomarker score of a patient population without mucosal healing, then the subject has a decreased likelihood of having complete improvement of mucosal healing without relapse, thereby indicating the need for selecting an appropriate therapy (*e.g.*, an increase in dose of anti-TNF α therapy, surgery, combination therapy, and the like) for effective treatment.

G. Statistical Algorithms for Mucosal Healing

[0281] In certain aspects, the present invention provides an algorithmic-based analysis that incorporates the inflammatory phase marker score and the proliferation phase marker score to improve the sensitivity, specificity, and/or accuracy of predicting and/or monitoring mucosal healing, selecting therapy, optimizing therapy, reducing toxicity, and/or monitoring the efficacy of therapeutic treatment to anti-TNF α drug therapy.

[0282] In some aspects, the present invention provides methods for identifying the phase of mucosal healing, monitoring mucosal healing, predicting the likelihood of mucosal healing and/or selecting a therapeutic regimen for a subject by applying a statistical algorithm to a proliferation phase marker score and an inflammatory phase marker score to generate a mucosal healing measurement.

[0283] The term "statistical analysis" or "statistical algorithm" or "statistical process" includes any of a variety of statistical methods and models used to determine relationships between variables. In the present invention, the variables are the presence and/or level of at least one marker of interest. Any number of markers can be analyzed using a statistical analysis described

herein. For example, the presence or level of 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 30, 35, 40, 45, 50, 55, 60, or more markers can be included in a statistical analysis. In one embodiment, logistic regression is used. In another embodiment, linear regression is used. In yet another embodiment, ordinary least squares regression or
5 unconditional logistic regression is used.

[0284] In some embodiments, the statistical analyses of the present invention comprise a quantile measurement of one or more markers, *e.g.*, within a given population, as a variable. Quantiles are a set of “cut points” that divide a sample of data into groups containing (as far as possible) equal numbers of observations. For example, quartiles are values that divide a sample
10 of data into four groups containing (as far as possible) equal numbers of observations. The lower quartile is the data value a quarter way up through the ordered data set; the upper quartile is the data value a quarter way down through the ordered data set. Quintiles are values that divide a sample of data into five groups containing (as far as possible) equal numbers of observations. The present invention can also include the use of percentile ranges of marker levels (*e.g.*, tertiles, quartile, quintiles, *etc.*), or their cumulative indices (*e.g.*, quartile sums of marker levels to obtain
15 quartile sum scores (QSS), *etc.*) as variables in the statistical analyses (just as with continuous variables).

[0285] In some embodiments, the statistical analyses of the present invention comprise one or more learning statistical classifier systems. As used herein, the term “learning statistical
20 classifier system” includes a machine learning algorithmic technique capable of adapting to complex data sets (*e.g.*, panel of markers of interest) and making decisions based upon such data sets. In some embodiments, a single learning statistical classifier system such as a decision/classification tree (*e.g.*, random forest (RF) or classification and regression tree (C&RT)) is used. In other embodiments, a combination of 2, 3, 4, 5, 6, 7, 8, 9, 10, or more
25 learning statistical classifier systems are used, preferably in tandem. Examples of learning statistical classifier systems include, but are not limited to, those using inductive learning (*e.g.*, decision/classification trees such as random forests, classification and regression trees (C&RT), boosted trees, *etc.*), Probably Approximately Correct (PAC) learning, connectionist learning (*e.g.*, neural networks (NN), artificial neural networks (ANN), neuro fuzzy networks (NFN),
30 network structures, the Cox Proportional-Hazards Model (CPHM), perceptrons such as multi-

layer perceptrons, multi-layer feed-forward networks, applications of neural networks, Bayesian learning in belief networks, *etc.*), reinforcement learning (*e.g.*, passive learning in a known environment such as naïve learning, adaptive dynamic learning, and temporal difference learning, passive learning in an unknown environment, active learning in an unknown environment, learning action-value functions, applications of reinforcement learning, *etc.*), and genetic algorithms and evolutionary programming. Other learning statistical classifier systems include support vector machines (*e.g.*, Kernel methods), multivariate adaptive regression splines (MARS), Levenberg-Marquardt algorithms, Gauss-Newton algorithms, mixtures of Gaussians, gradient descent algorithms, and learning vector quantization (LVQ).

[0286] Random forests are learning statistical classifier systems that are constructed using an algorithm developed by Leo Breiman and Adele Cutler. Random forests use a large number of individual decision trees and decide the class by choosing the mode (*i.e.*, most frequently occurring) of the classes as determined by the individual trees. Random forest analysis can be performed, *e.g.*, using the RandomForests software available from Salford Systems (San Diego, CA). See, *e.g.*, Breiman, *Machine Learning*, 45:5-32 (2001); and http://stat-www.berkeley.edu/users/breiman/RandomForests/cc_home.htm, for a description of random forests.

[0287] Classification and regression trees represent a computer intensive alternative to fitting classical regression models and are typically used to determine the best possible model for a categorical or continuous response of interest based upon one or more predictors. Classification and regression tree analysis can be performed, *e.g.*, using the C&RT software available from Salford Systems or the Statistica data analysis software available from StatSoft, Inc. (Tulsa, OK). A description of classification and regression trees is found, *e.g.*, in Breiman *et al.* "Classification and Regression Trees," Chapman and Hall, New York (1984); and Steinberg *et al.*, "CART: Tree-Structured Non-Parametric Data Analysis," Salford Systems, San Diego, (1995).

[0288] Neural networks are interconnected groups of artificial neurons that use a mathematical or computational model for information processing based on a connectionist approach to computation. Typically, neural networks are adaptive systems that change their structure based on external or internal information that flows through the network. Specific examples of neural

networks include feed-forward neural networks such as perceptrons, single-layer perceptrons, multi-layer perceptrons, backpropagation networks, ADALINE networks, MADALINE networks, Learnmatrix networks, radial basis function (RBF) networks, and self-organizing maps or Kohonen self-organizing networks; recurrent neural networks such as simple recurrent
 5 networks and Hopfield networks; stochastic neural networks such as Boltzmann machines; modular neural networks such as committee of machines and associative neural networks; and other types of networks such as instantaneously trained neural networks, spiking neural networks, dynamic neural networks, and cascading neural networks. Neural network analysis can be performed, *e.g.*, using the Statistica data analysis software available from StatSoft, Inc.
 10 *See, e.g.*, Freeman *et al.*, In “Neural Networks: Algorithms, Applications and Programming Techniques,” Addison-Wesley Publishing Company (1991); Zadeh, Information and Control, 8:338-353 (1965); Zadeh, “IEEE Trans. on Systems, Man and Cybernetics,” 3:28-44 (1973); Gersho *et al.*, In “Vector Quantization and Signal Compression,” Kluwer Academic Publishers, Boston, Dordrecht, London (1992); and Hassoun, “Fundamentals of Artificial Neural Networks,”
 15 MIT Press, Cambridge, Massachusetts, London (1995), for a description of neural networks.

[0289] Support vector machines are a set of related supervised learning techniques used for classification and regression and are described, *e.g.*, in Cristianini *et al.*, “An Introduction to Support Vector Machines and Other Kernel-Based Learning Methods,” Cambridge University Press (2000). Support vector machine analysis can be performed, *e.g.*, using the SVM^{light}
 20 software developed by Thorsten Joachims (Cornell University) or using the LIBSVM software developed by Chih-Chung Chang and Chih-Jen Lin (National Taiwan University).

[0290] The various statistical methods and models described herein can be trained and tested using a cohort of samples (*e.g.*, serological samples) from healthy or non-IBD individuals and patients with a TNF α -mediated disease or disorder such as, *e.g.*, IBD (*e.g.*, CD and/or UC). For
 25 example, samples from patients diagnosed by a physician, preferably by a gastroenterologist, as having IBD or a clinical subtype thereof using a biopsy, colonoscopy, or an immunoassay as described in, *e.g.*, U.S. Patent No. 6,218,129, are suitable for use in training and testing the statistical methods and models of the present invention. Samples from patients diagnosed with IBD can also be stratified into Crohn’s disease or ulcerative colitis using an immunoassay as
 30 described in, *e.g.*, U.S. Patent Nos. 5,750,355 and 5,830,675. Samples from healthy individuals

can include those that were not identified as IBD samples. One skilled in the art will know of additional techniques and diagnostic criteria for obtaining a cohort of patient samples that can be used in training and testing the statistical methods and models of the present invention.

H. Predicting Therapeutic Response/Therapeutic Efficacy

5 [0291] The present invention provides non-invasive methods for predicting the likelihood of mucosal healing and/or monitoring mucosal healing in patients, such as patients receiving anti-TNF therapy. In addition, the present invention provides methods of predicting therapeutic response, risk of relapse, and risk of surgery in patients with IBD (*e.g.*, Crohn's disease and ulcerative colitis) based upon the progression of mucosal healing in the subject. In particular, the methods of the present invention find utility for selecting an appropriate anti-TNF α therapy for continued treatment, for determining when or how to adjust or modify (*e.g.*, increase or decrease) the subsequent dose of an anti-TNF α drug to optimize therapeutic efficacy and/or to reduce toxicity, for determining when or how to combine an anti-TNF α drug (*e.g.*, at an initial, increased, decreased, or same dose) with one or more immunosuppressive agents such as
10 methotrexate (MTX) or azathioprine (AZA), and/or for determining when or how to change the current course of therapy (*e.g.*, switch to a different anti-TNF α drug or to a drug that targets a different mechanism). The present invention also provides methods for selecting an appropriate therapy for patients diagnosed with IBD, wherein the therapy promotes mucosal healing (*e.g.*, complete improvement of mucosal healing without relapse).

20 [0292] In some embodiments, selecting an appropriate therapy comprises maintaining, increasing, or decreasing a subsequent dose of the course of therapy for the subject. In other embodiments, the method further comprises determining a different course of therapy for the subject. In certain instances, the different course of therapy comprises treatment with a different anti-TNF α antibody. In other instances, the different course of therapy comprises the current
25 course of therapy along with another therapeutic agent, such as, but not limited to, an immunosuppressive agent, a corticosteroid, a drug that targets a different mechanism, nutrition therapy, and combinations thereof.

[0293] In some embodiments, selecting an appropriate therapy comprises selecting an appropriate therapy for initial treatment. In some instances, the therapy comprises an anti-TNF α
30 antibody therapy.

[0294] In certain embodiments, the methods disclosed herein can be used as confirmation that a proposed new drug or therapeutic is the same as or is sufficiently or substantially similar to an approved drug product, such that the proposed new drug or therapeutic can be used as a “biosimilar” therapeutic. For example, if the proposed new drug has only a slightly different disease activity profile compared to the branded drug product, this would be apparent using the methods disclosed herein. If the proposed new drug has a significantly different disease activity profile compared to the branded drug product, then the new drug would not be biosimilar. Advantageously, the methods disclosed herein can be used in clinical trials of proposed new drugs in order to assess the effective therapeutic value of the drug.

[0295] In some embodiments, selecting an appropriate therapy comprises maintaining, increasing, or decreasing a subsequent dose of the course of therapy for the subject. In other embodiments, the method further comprises determining a different course of therapy for the subject. In certain instances, the different course of therapy comprises treatment with a different anti-TNF α antibody. In other instances, the different course of therapy comprises the current course of therapy along with another therapeutic agent, such as, but not limited to, an immunosuppressive agent, a corticosteroid, a drug that targets a different mechanism, nutrition therapy, and combinations thereof).

[0296] Accordingly, in some aspects, the methods of the invention provide information useful for guiding treatment decisions for patients receiving or about to receive anti-TNF α drug therapy, *e.g.*, by selecting an appropriate anti-TNF α therapy for initial treatment, by determining when or how to adjust or modify (*e.g.*, increase or decrease) the subsequent dose of an anti-TNF α drug, by determining when or how to combine an anti-TNF α drug (*e.g.*, at an initial, increased, decreased, or same dose) with one or more immunosuppressive agents such as methotrexate (MTX) or azathioprine (AZA), and/or by determining when or how to change the current course of therapy (*e.g.*, switch to a different anti-TNF α drug or to a drug that targets a different mechanism such as an IL-6 receptor-inhibiting monoclonal antibody, anti-integrin molecule (*e.g.*, Tysabri, Vedaluzamab), JAK-2 inhibitor, and tyrosine kinase inhibitor, or to a nutrition therapy (*e.g.*, special carbohydrate diet)).

[0297] In other embodiments, the methods of the present invention can be used to predict responsiveness to a TNF α inhibitor, especially to an anti-TNF α antibody in a subject having an

autoimmune disorder (*e.g.*, rheumatoid arthritis, Crohn's disease, ulcerative colitis and the like.). In this method, by assaying the subject for the correct or therapeutic dose of anti-TNF α antibody, *i.e.*, the therapeutic concentration level, it is possible to predict whether the individual will be responsive to the therapy.

- 5 [0298] In another embodiment, the present invention provides methods for monitoring IBD (*e.g.*, Crohn's disease and ulcerative colitis) in a subject having the IBD disorder, wherein the method comprises assaying the subject for the correct or therapeutic dose of anti-TNF α antibody, *i.e.*, the therapeutic concentration level, over time. In this manner, it is possible to predict whether the individual will be responsive to the therapy over the given time period.
- 10 [0299] Once the diagnosis or prognosis of a subject receiving anti-TNF α drug therapy has been determined or the likelihood of response to an anti-TNF α drug has been predicted in a subject diagnosed with a disease in which TNF α has been implicated in the pathophysiology, including, but not limited to, IBD (*e.g.*, Crohn's disease and ulcerative colitis), shock, sepsis, infections, autoimmune diseases, RA, transplant rejection and graft-versus-host disease, according to the
- 15 methods described herein, the present invention may further comprise recommending a course of therapy based upon the diagnosis, prognosis, or prediction. In certain instances, the present invention may further comprise administering to a subject a therapeutically effective amount of an anti-TNF α drug useful for treating one or more symptoms associated with the TNF-mediated disease or disorder. For therapeutic applications, the anti-TNF drug can be administered alone or
- 20 co-administered in combination with one or more additional anti-TNF drugs and/or one or more drugs that reduce the side-effects associated with the anti-TNF drug (*e.g.*, an immunosuppressive agent). As such, the present invention advantageously enables a clinician to practice "personalized medicine" by guiding treatment decisions and informing therapy selection and optimization for anti-TNF α drugs such that the right drug is given to the right patient at the right
- 25 time.

- [0300] Understanding the clinical course of the disease enables physicians to make better informed treatment decisions for their inflammatory disease patients (*e.g.*, IBD (*e.g.*, Crohn's disease and ulcerative colitis), rheumatoid arthritis (RA), others) and helps to direct new drug development. The biomarkers described herein are able to detect mucosal healing phases and
- 30 monitor the effect of treatment; and have a predictive value towards healing or recurrence of the

disease. The present invention is particularly advantageous because it provides indicators of the phases of mucosal healing and enables a prediction of mucosal improvement in patients. In addition, the inflammatory phase score and the proliferation phase score of the present invention have enormous implications for patient management, as well as therapeutic decision-making, and aid or assist in directing the appropriate therapy to patients who most likely will benefit from it and avoid the expense and potential toxicity of chronic maintenance therapy in those who have a low risk of recurrence.

V. Examples

[0301] The following examples are offered for illustrative purposes, and are not intended to limit the invention in any manner. Those of skill in the art will readily recognize a variety of noncritical parameters which can be changed or modified to yield essentially the same results.

Example 1. Per-Marker Analysis and Individual Patient Analysis of Mucosal Healing.

[0302] This example illustrates that the phases of mucosal healing (*e.g.*, inflammatory phase, proliferation phase, and remodeling phase) in an IBD patient are associated with the levels of various inflammatory markers and repair markers. Described herein is a biomarker analysis of IBD patients who showed either complete healing or no healing.

[0303] In this study serum samples were obtained from 197 IBD patients with repeated endoscopic scores. At least one sample from each patient was available for evaluation. 131 patients had more than 1 sample available for testing and 49 subjects has more than 2 samples. In total, 386 samples were analyzed.

[0304] Endoscopy remains the standard method for determining the clinical status of patients with IBD. It is used to assess mucosal changes (*e.g.*, improvements) and to determine whether a patient exhibits complete improvement. Unfortunately, some patients with an endoscopic score of complete improvement can relapse (FIG. 2A). This suggests that endoscopic scoring does not provide an adequate assessment of mucosal healing in IBD patients. In one aspect, this study investigated whether mucosal healing and its three phases (*e.g.*, inflammatory, proliferation, and remodeling) can be detected in serum samples from IBD patients. Two distinct populations were analyzed: patients who showed complete healing (FIG. 3A); and patients who never healed (FIG. 3B).

DEMANDE OU BREVET VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET COMPREND PLUS D'UN TOME.

CECI EST LE TOME 1 DE 2
CONTENANT LES PAGES 1 À 162

NOTE : Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

JUMBO APPLICATIONS/PATENTS

THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE THAN ONE VOLUME

THIS IS VOLUME 1 OF 2
CONTAINING PAGES 1 TO 162

NOTE: For additional volumes, please contact the Canadian Patent Office

NOM DU FICHER / FILE NAME :

NOTE POUR LE TOME / VOLUME NOTE:

WHAT IS CLAIMED IS:

- 1 1. A method for predicting the likelihood of mucosal healing in a subject, the
2 method comprising:
3 (a) measuring a first set of markers to form an inflammatory phase marker score;
4 (b) measuring a second set of markers to form a proliferation phase marker score;
5 (c) comparing the inflammatory phase marker score to the proliferation phase
6 marker score; and
7 (d) predicting the likelihood of mucosal healing based upon the comparison in
8 step (c).
- 1 2. The method of claim 1, wherein the subject has an inflammatory bowel
2 disease (IBD).
- 1 3. The method of claim 2, wherein the inflammatory bowel disease is
2 Crohn's disease or ulcerative colitis.
- 1 4. The method of any one of claims 1 to 3, wherein the first set of markers
2 comprises one or more of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β ,
3 GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and an anti-drug
4 antibody (ADA).
- 1 5. The method of claim 4, wherein the first set of markers comprises one or
2 more of GMCSF, IL-2, and VCAM.
- 1 6. The method of any one of claims 1 to 5, wherein the second set of markers
2 comprises one or more of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA, FGF1,
3 FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB,
4 VEGFC, VEGFD, TGFB1, IL-10, and an anti-TNF α antibody.
- 1 7. The method of claim 6, wherein the second set of markers comprises
2 HGF.
- 1 8. The method of any one of claims 1 to 7, wherein each marker is assigned a
2 value of from 0 to 6 based upon the concentration or level of the marker.

- 1 9. The method of claim 8, wherein the concentration or level of the marker is
2 relative to the level of the same marker in a patient population without mucosal healing.
- 1 10. The method of any one of claims 1 to 9, wherein the value for each marker
2 in the first set of markers is summed to form the inflammatory phase marker score.
- 1 11. The method of any one of claims 1 to 10, wherein the value for each
2 marker in the second set of markers is summed to form the proliferation phase marker score.
- 1 12. The method of any one of claims 1 to 11, wherein the comparison in step
2 (c) comprises applying an algorithm incorporating the inflammatory phase marker score and the
3 proliferation phase marker score.
- 1 13. The method of claim 12, wherein the algorithm comprises subtracting the
2 inflammatory phase marker score from the proliferation phase marker score to form a biomarker
3 score of the subject.
- 1 14. The method of claim 12, wherein the subject has an increased likelihood
2 of having complete improvement of mucosal healing without relapse when the biomarker score
3 of the subject is higher than the biomarker score of a patient population without mucosal healing.
- 1 15. The method of any one of claims 12 to 14, wherein the algorithm predicts
2 the likelihood of mucosal healing independent of clinical confounders.
- 1 16. The method of claim 15, wherein the clinical confounders comprise one or
2 more selected from the group consisting of age of diagnosis, age of last sample, disease location,
3 anal involvement, smoking, and surgery.
- 1 17. The method of any one of claims 12 to 16, wherein the algorithm predicts
2 the likelihood of mucosal healing excluding serology markers.
- 1 18. The method of claim 17, wherein the excluded serology markers comprise
2 one or more selected from the group consisting of ASCA-A, ASCA-G, CBir1, Fla2, FlaX, and
3 OmpC.

1 19. The method of any one of claims 1 to 18, wherein the subject is receiving
2 an anti-TNF α antibody.

1 20. The method of claim 19, wherein the anti-TNF α antibody comprises one
2 or more of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), and
3 CIMZIA® (certolizumab pegol).

1 21. The method of any one of claims 1 to 20, wherein the marker is measured
2 in a sample selected from the group consisting of serum, plasma, whole blood, stool, peripheral
3 blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells, and a tissue biopsy.

1 22. A method for monitoring the progression of mucosal healing in a subject,
2 the method comprising:

3 (a) measuring a first set of markers at a plurality of time points to form a plurality
4 of inflammatory phase marker scores;

5 (b) measuring a second set of markers at a plurality of time points to form a
6 plurality of proliferation phase marker scores;

7 (c) comparing the inflammatory phase marker score to the proliferation phase
8 marker score at each time point and across the plurality of time points; and

9 (d) monitoring the progression of mucosal healing based upon the comparison in
10 step (c).

1 23. The method of claim 22, wherein the subject has an inflammatory bowel
2 disease (IBD).

1 24. The method of claim 23, wherein the inflammatory bowel disease is
2 Crohn's disease or ulcerative colitis.

1 25. The method of any one of claims 22 to 24, wherein the first set of markers
2 comprises one or more of TWEAK, CRP, ICAM, SAA, VCAM, IL-2, IL-8, IL-12p70, IL-1 β ,
3 GMCSF, IFN γ , IL-6, TNF α , ASCA-A, ASCA-G, CBir1, Fla2, FlaX, OmpC, and an anti-drug
4 antibody (ADA).

1 26. The method of claim 25, wherein the first set of markers comprises one or
2 more of GMCSF, IL-2, and VCAM.

1 27. The method of any one of claims 22 to 26, wherein the second set of
2 markers comprises one or more of AREG, EREG, HBEGF, HGF, HRGB, BTC, EGF, TGFA,
3 FGF1, FGF2, FGF4, FGF7, FGF9, FGF19, SCF, PDGFA, PDGFB, PDGFC, VEGFA, VEGFB,
4 VEGFC, VEGFD, TGFB1, IL-10, and an anti-TNF α antibody.

1 28. The method of claim 27, wherein the second set of markers comprises
2 HGF.

1 29. The method of any one of claims 22 to 28, wherein each marker is
2 assigned a value of from 0 to 6 based upon the concentration or level of the marker.

1 30. The method of claim 29, wherein the concentration or level of the marker
2 is relative to the level of the same marker in a patient population without mucosal healing.

1 31. The method of any one of claims 22 to 30, wherein the value for each
2 marker in the first set of markers is summed to form the inflammatory phase marker score.

1 32. The method of any one of claims 22 to 31, wherein the value for each
2 marker in the second set of markers is summed to form the proliferation phase marker score.

1 33. The method of any one of claims 22 to 32, wherein the comparison in step
2 (c) comprises applying an algorithm incorporating the inflammatory phase marker score and the
3 proliferation phase marker score.

1 34. The method of claim 33, wherein the algorithm comprises subtracting the
2 inflammatory phase marker score from the proliferation phase marker score to form a biomarker
3 score of the subject at each time point.

1 35. The method of claim 34, wherein the subject is progressing through the
2 phases of mucosal healing when the biomarker score of the subject increases at each time point
3 over the plurality of time points.

1 36. The method of claim 35, wherein the subject is progressing from a phase
2 of mucosal healing selected from an inflammatory phase and a proliferation phase onto the next
3 phase of mucosal healing.

1 37. The method of any one of claims 33 to 36, wherein the algorithm monitors
2 the progression of mucosal healing independent of clinical confounders.

1 38. The method of claim 37, wherein the clinical confounders comprise one or
2 more selected from the group consisting of age of diagnosis, age of last sample, disease location,
3 anal involvement, smoking, and surgery.

1 39. The method of any one of claims 33 to 38, wherein the algorithm monitors
2 the progression of mucosal healing excluding serology markers.

1 40. The method of claim 39, wherein the excluded serology markers comprise
2 one or more selected from the group consisting of ASCA-A, ASCA-G, CBir1, Fla2, FlaX, and
3 OmpC.

1 41. The method of any one of claims 22 to 40, wherein the subject is receiving
2 an anti-TNF α antibody.

1 42. The method of claim 41, wherein the anti-TNF α antibody comprises one
2 or more of REMICADE™ (infliximab), ENBREL™ (etanercept), HUMIRA™ (adalimumab), and
3 CIMZIA® (certolizumab pegol).

1 43. The method of any one of claims 22 to 42, wherein the marker at each
2 time point is measured in a sample selected from the group consisting of serum, plasma, whole
3 blood, stool, peripheral blood mononuclear cells (PBMC), polymorphonuclear (PMN) cells, and
4 a tissue biopsy.

1 44. The method of any one of claims 22 to 43, further comprising optimizing
2 therapeutic efficacy of an anti-TNF α antibody therapy based upon the progression of mucosal
3 healing in the subject.

1 45. The method of any one of claims 22 to 43, further comprising selecting an
2 appropriate therapeutic regimen based upon the progression of mucosal healing in the subject.

1

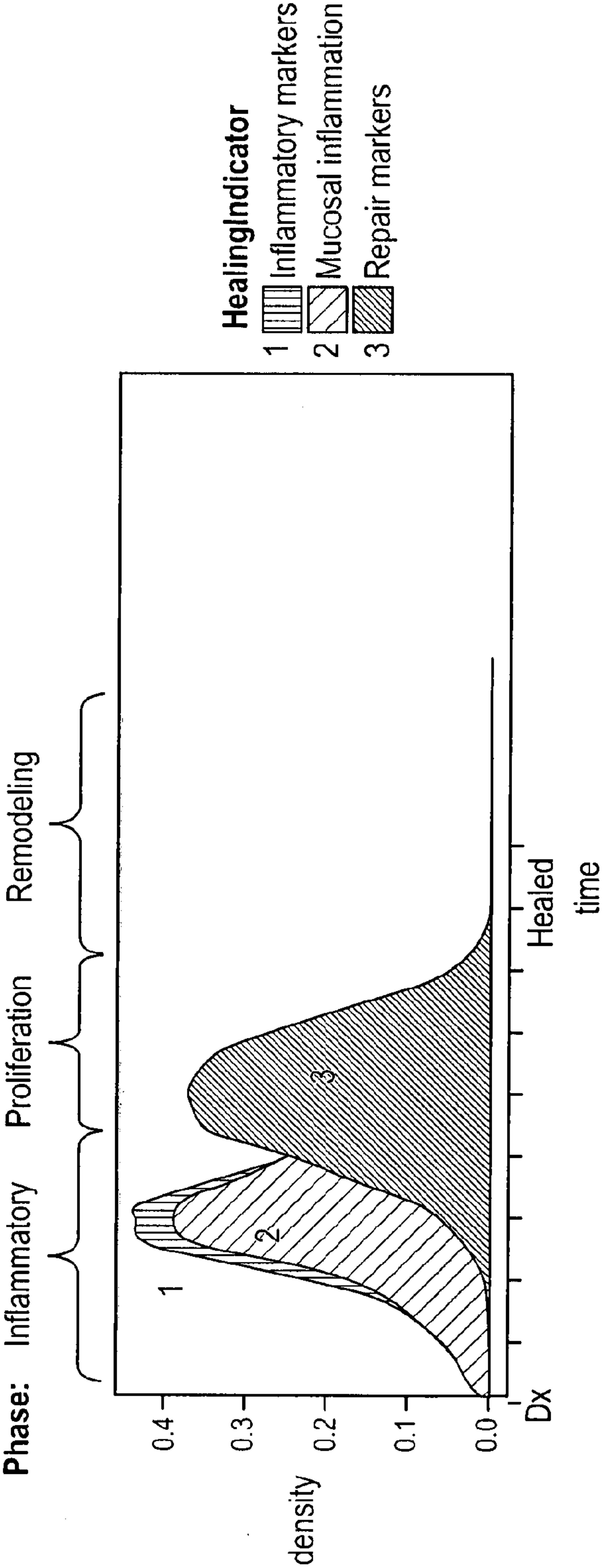


FIG. 1

FIG. 2A

Mucosal improvement measured at each scope per individual:

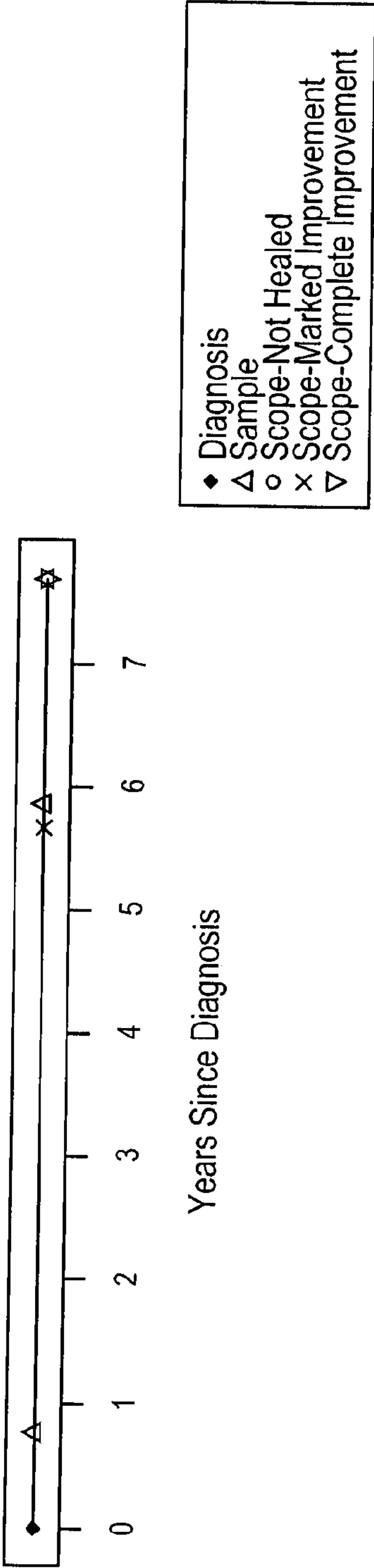
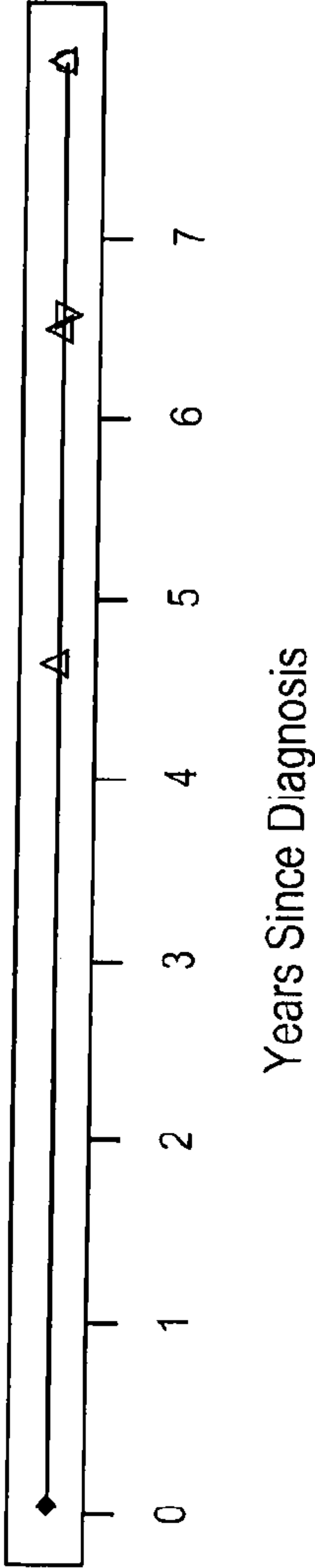


FIG. 2B

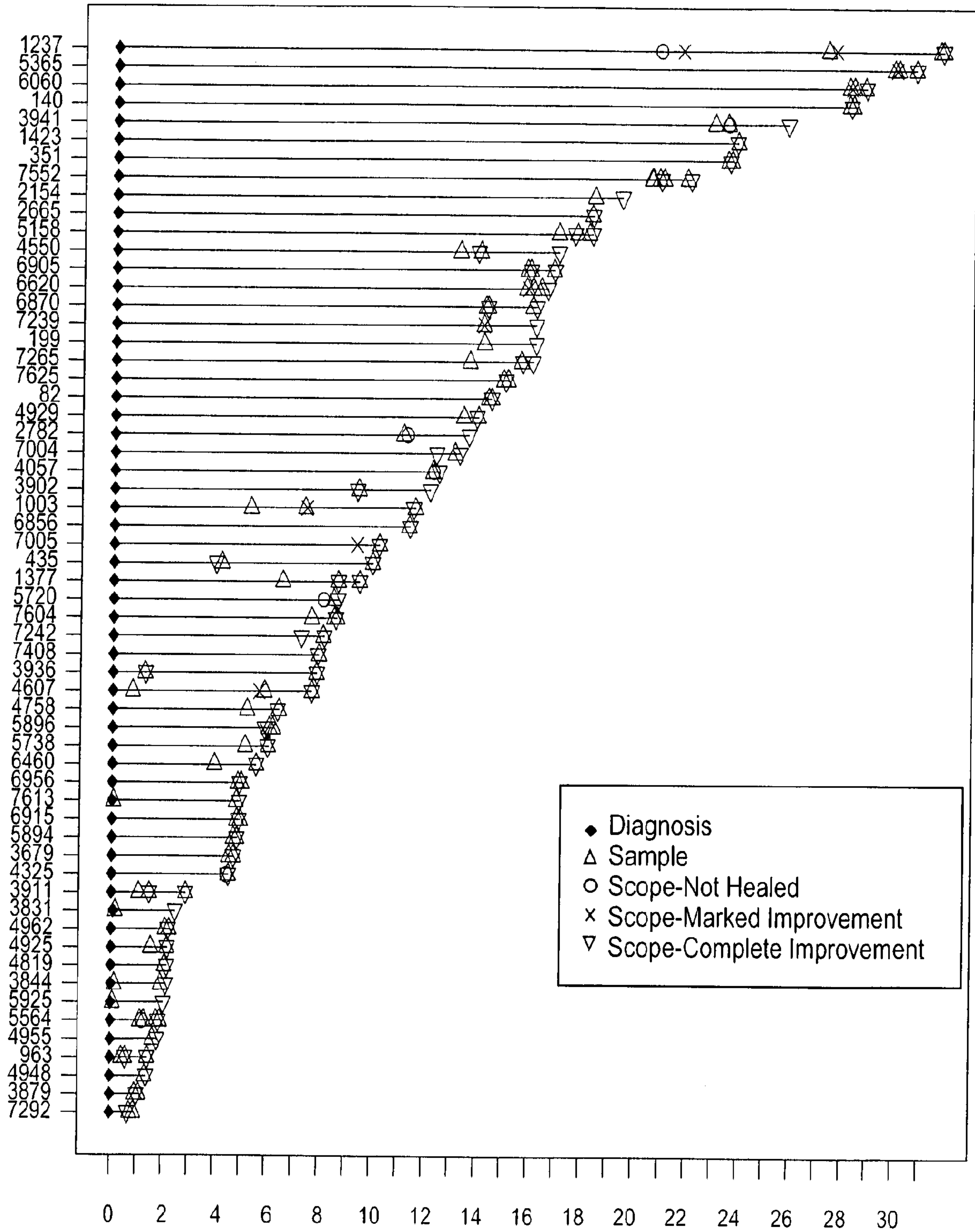
However, some individuals 'relapse' after complete improvement:



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Those who heal and never relapse (n=59)

vs. FIG. 3B

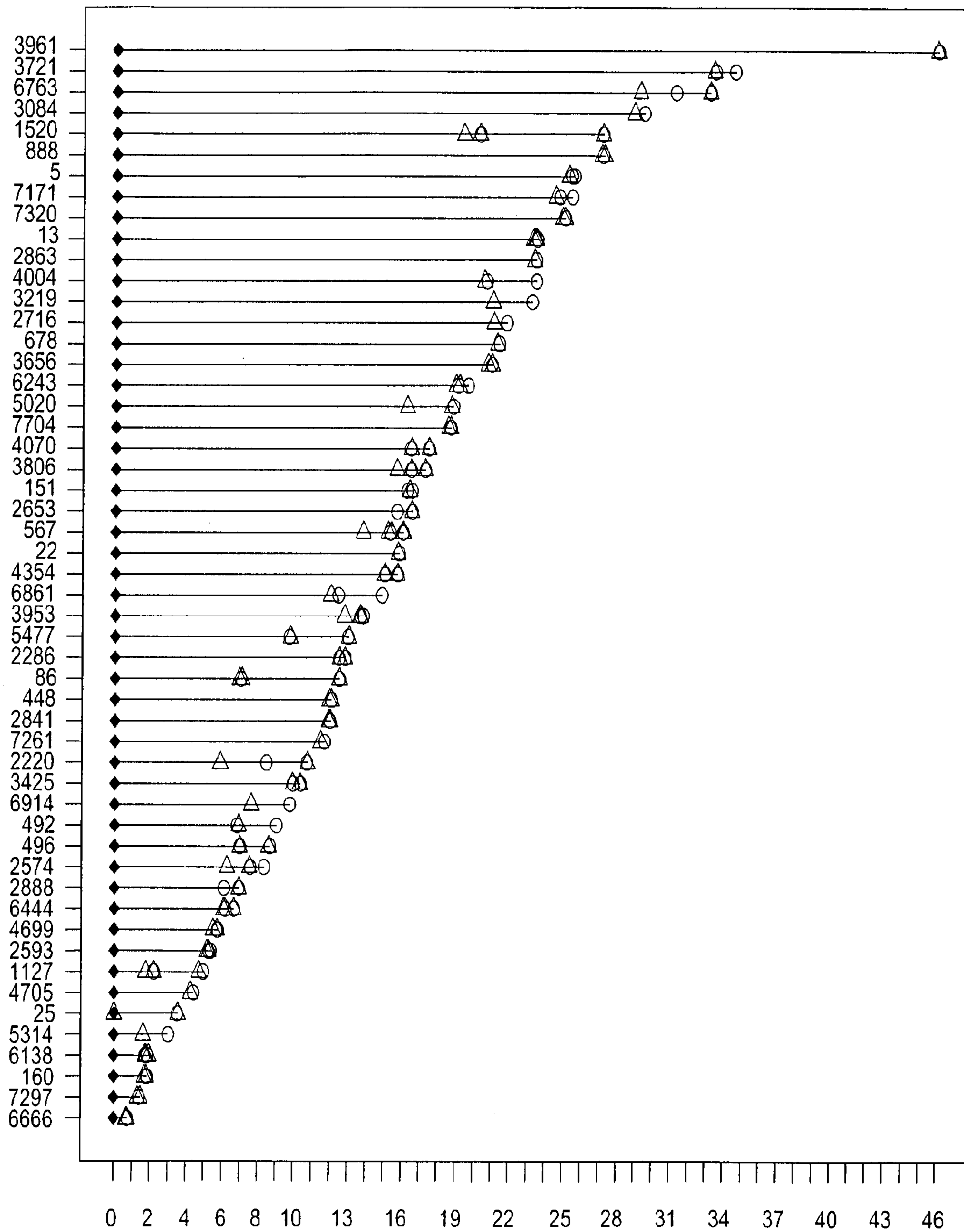
**FIG. 3A**

Years Since Diagnosis

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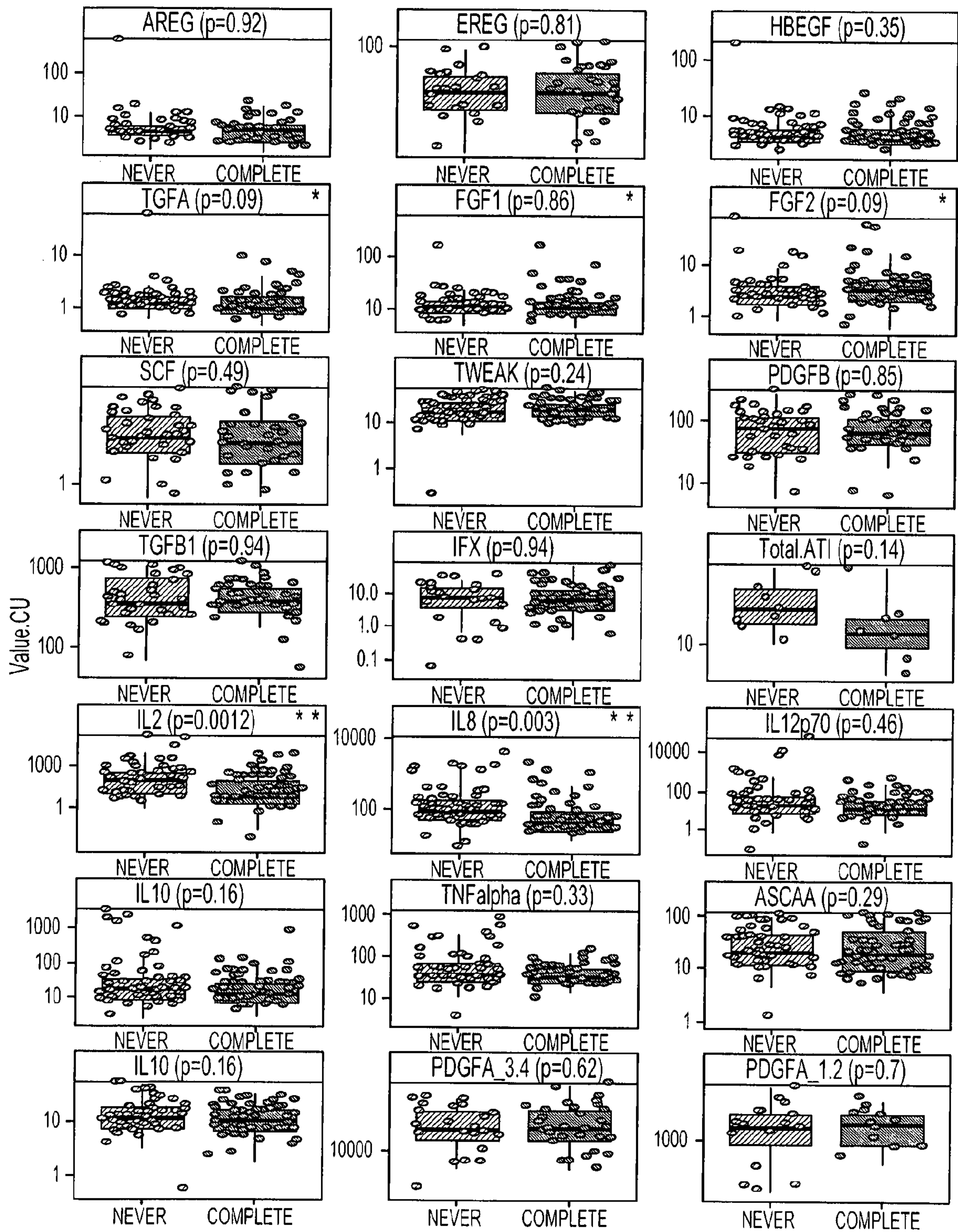
vs. FIG. 3A

Those who never heal (n=52)

**FIG. 3B**

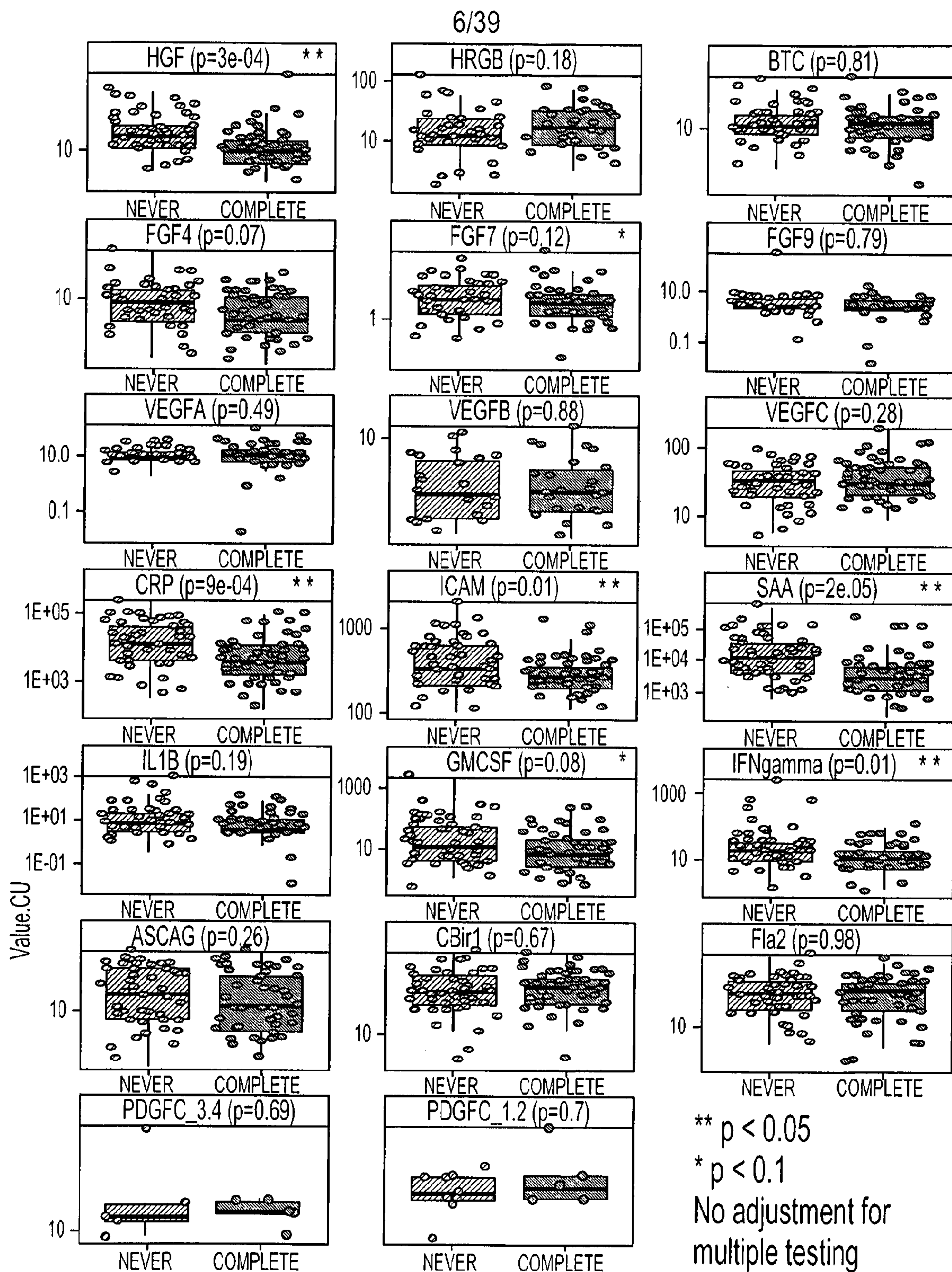
Years Since Diagnosis

5/39



Mucosal Healing Extremes (Complete w/o Relapse vs. Never Healed)

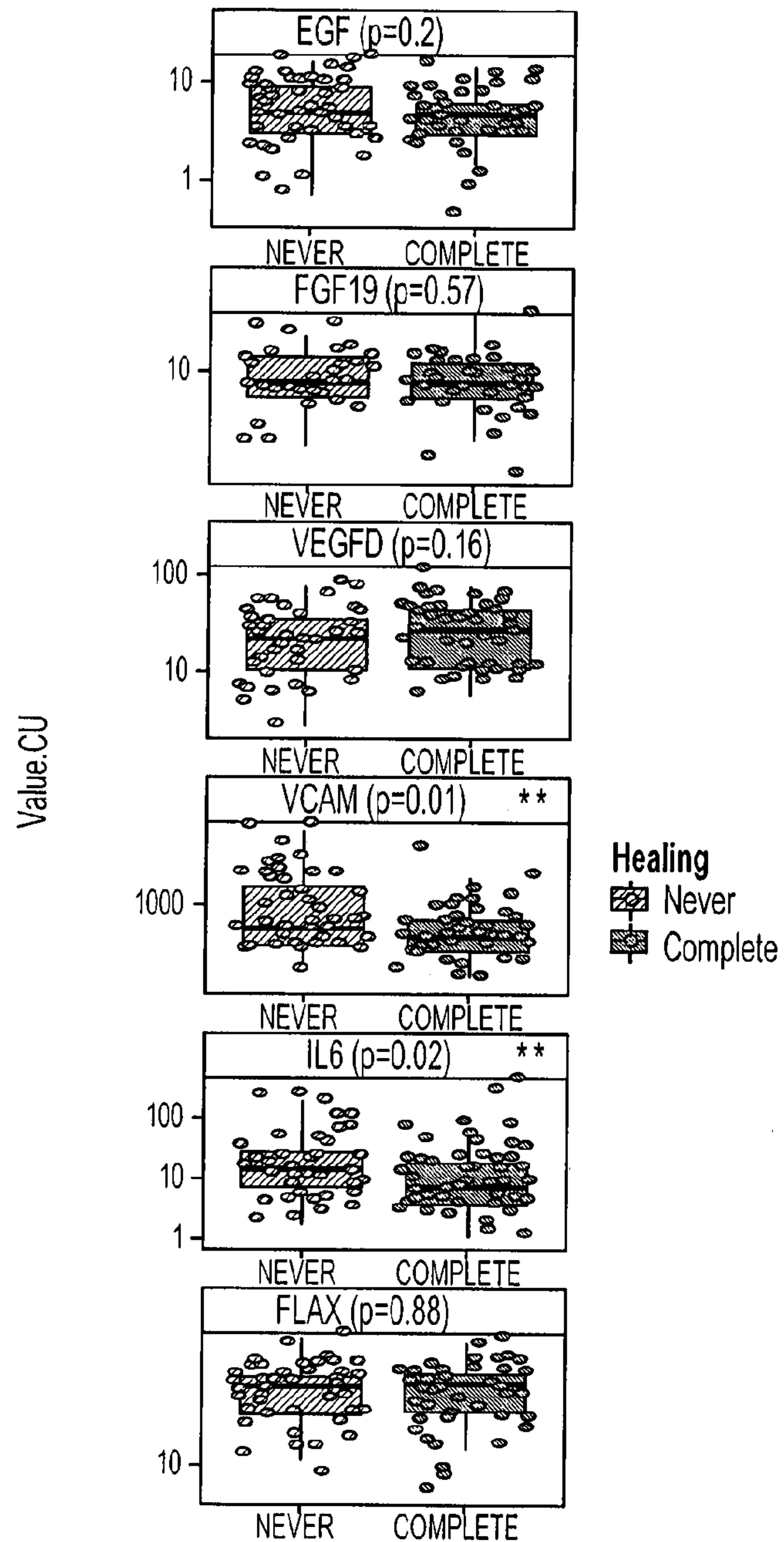
FIG. 4



Mucosal Healing Extremes (Complete w/o Relapse vs. Never Healed)

FIG. 4 (CONT.)

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Mucosal Healing Extremes (Complete w/o Relapse vs. Never Healed)

FIG. 4 (CONT.)

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Marker	Odds Ratio (95% CI)	p value
GMCSF	0.9837 (0.9698 - 0.9978)	0.024
IL2	0.9921 (0.9844 - 0.9998)	0.046
VCAM	0.9995 (0.9990 - 0.9999)	0.026
HGF	0.9095 (0.8414 - 0.9831)	0.017

FIG. 5

FIG. 6A

'True' healed individuals

Identified by:

1. Samples paired with 'no improvement' scope followed by two 'complete improvement' scopes (e.g., BELOW)

2. Inflammation low or decreasing over time

SEE FIG. 7

N = 4

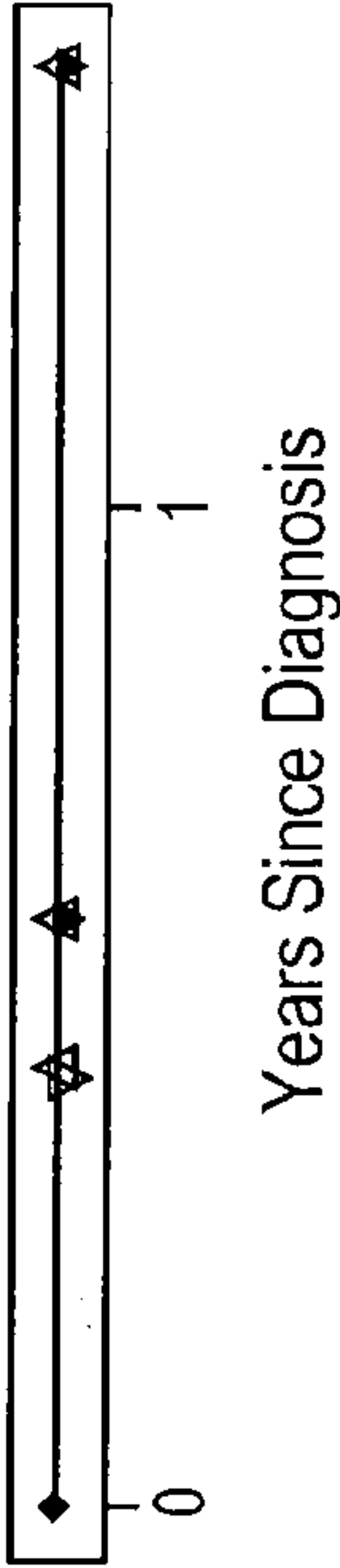


FIG. 6B

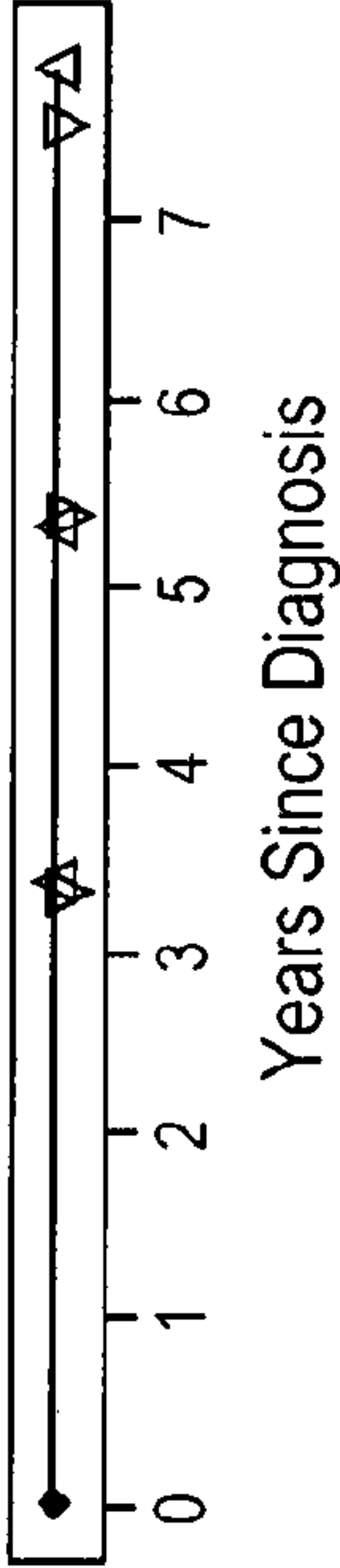
Not healed individuals

Identified by:

1. Samples paired with three 'no improvement' scopes (e.g., BELOW)

2. Total length of time between first and last events similar to 'true' healed individuals

N = 4



- ◆ Diagnosis
- △ Sample
- ▽ Scope-Not Healed
- ▴ Scope-Marked Improvement
- ▾ Scope-Complete Improvement

vs.

FIG. 7A

Patient #1

Subject ID: 963

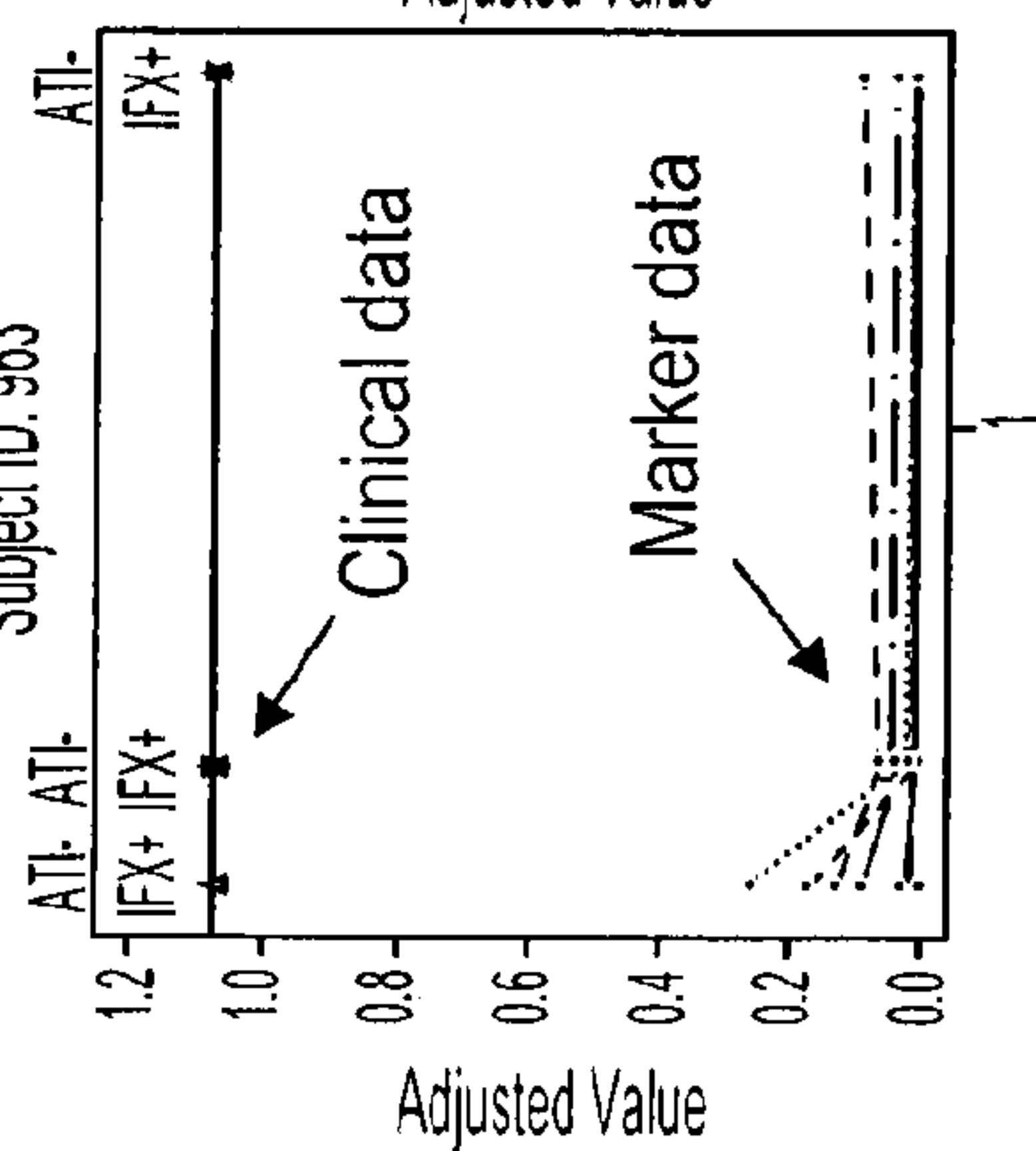


FIG. 7B

Patient #2

Subject ID: 6905

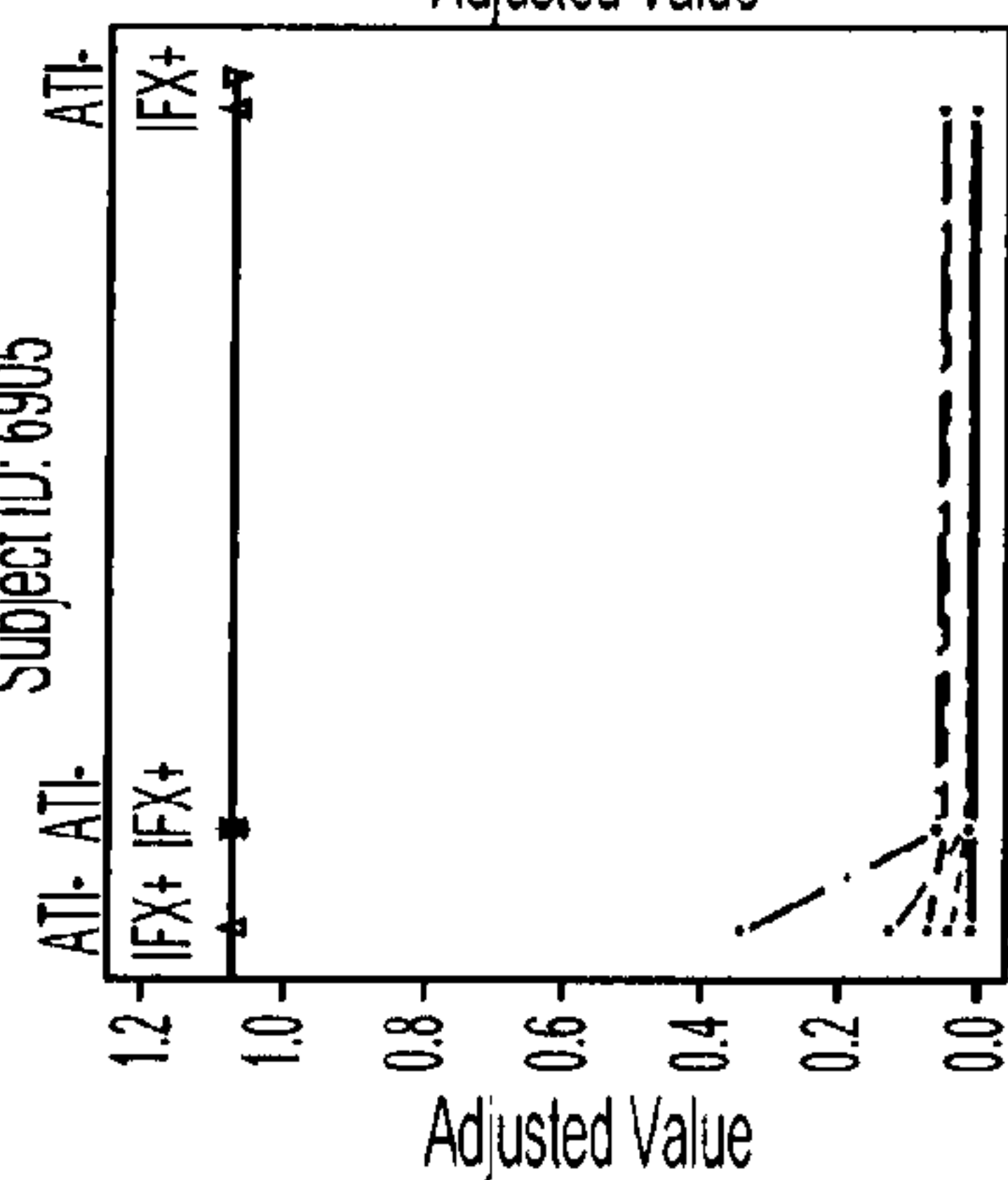


FIG. 7C

Patient #3

Subject ID: 1377

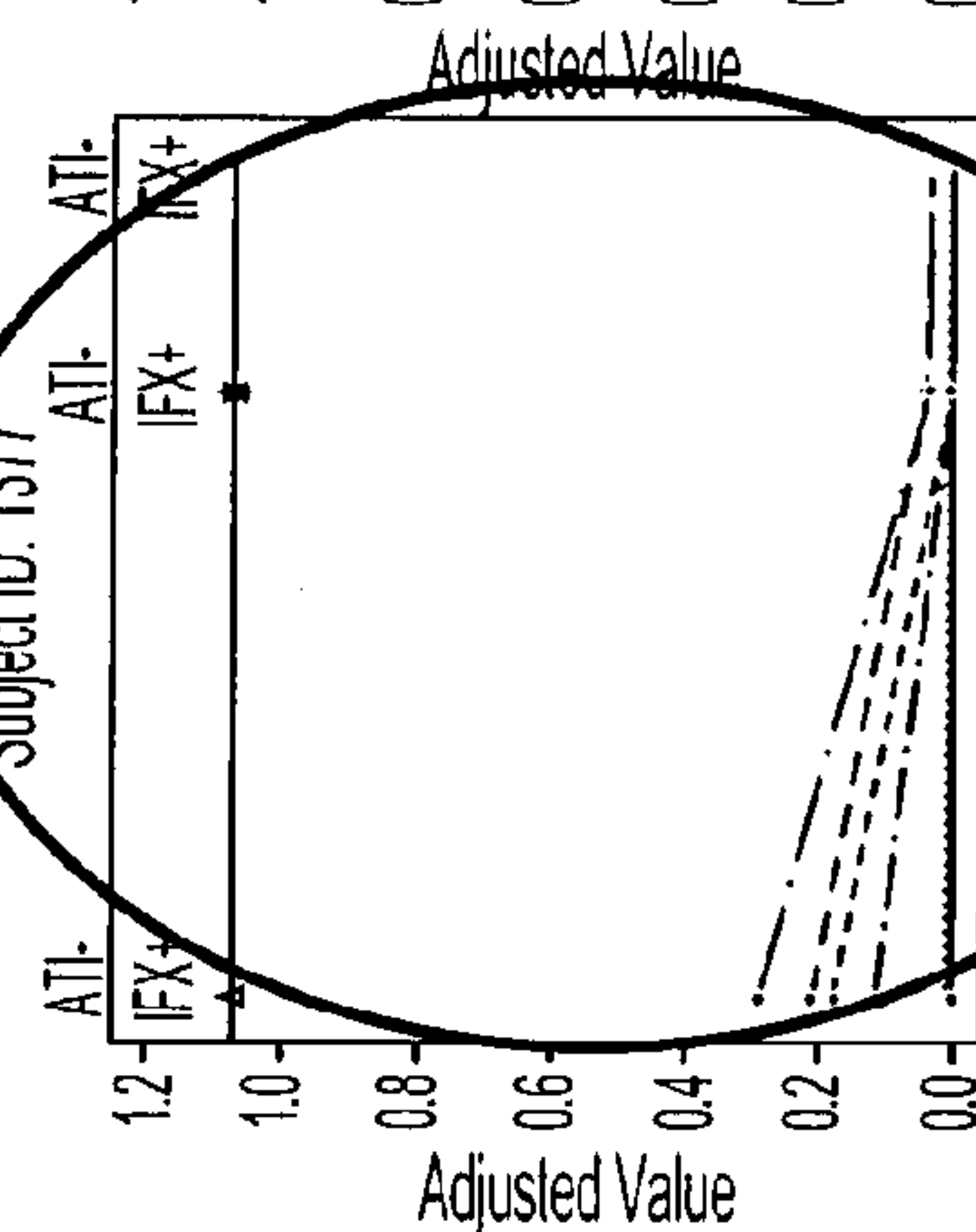
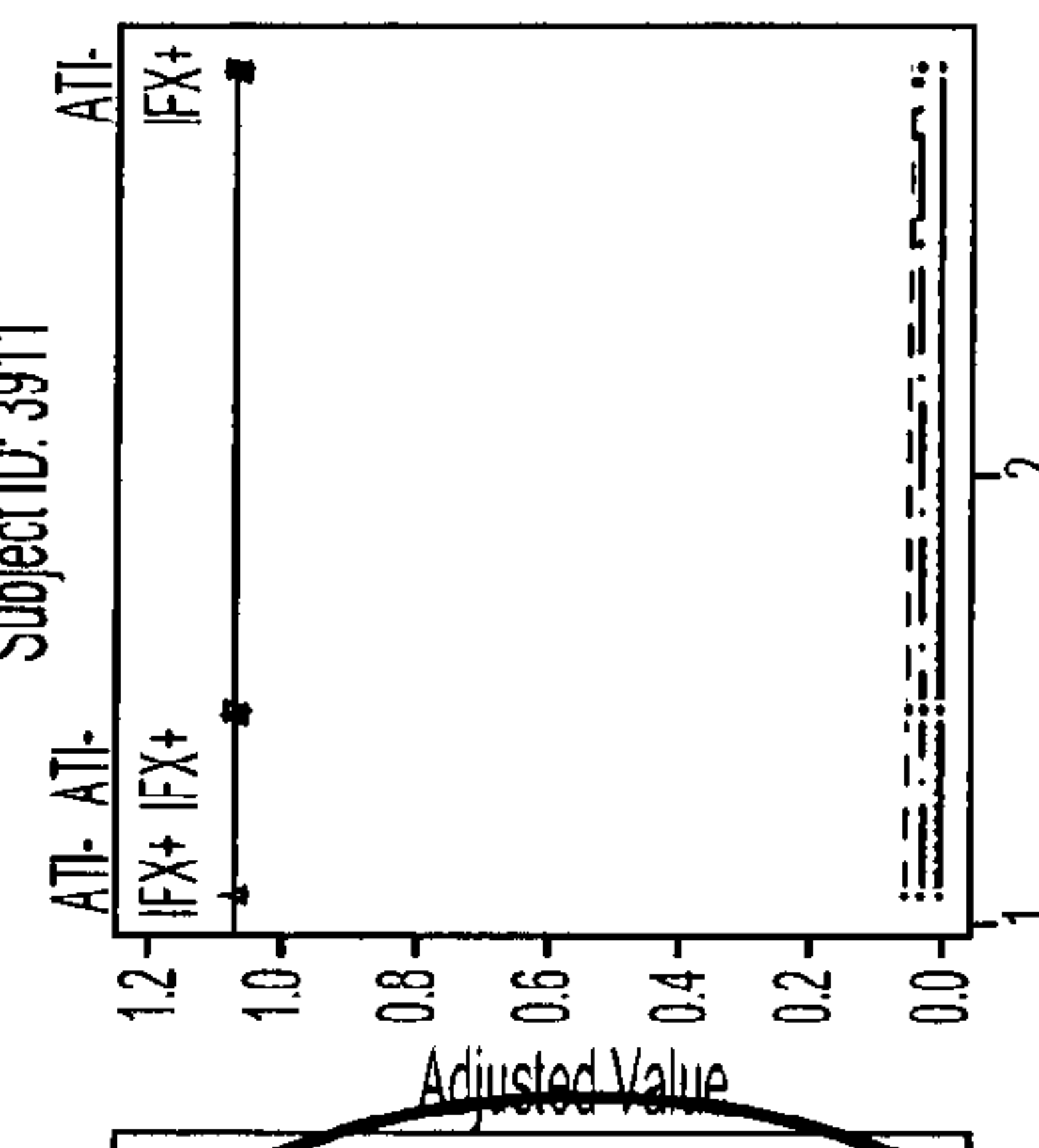


FIG. 7D

Patient #4

Subject ID: 3911

2
Years Since Diagnosis

One box per individual.
In later plots, one box per marker group.

/CAM

ICAM

SAA

CRP

21

871

- ◆ Diagnosis
- △ Sample
- Scope-Not Healed
- × Scope-Marked Improvement
- ▽ Scope-Complete Improvement

Δ Sample

- Scope-Not Healed

x Scope-Marked Improvement

▽ Scope-Complete Improvement

FIG. 7E

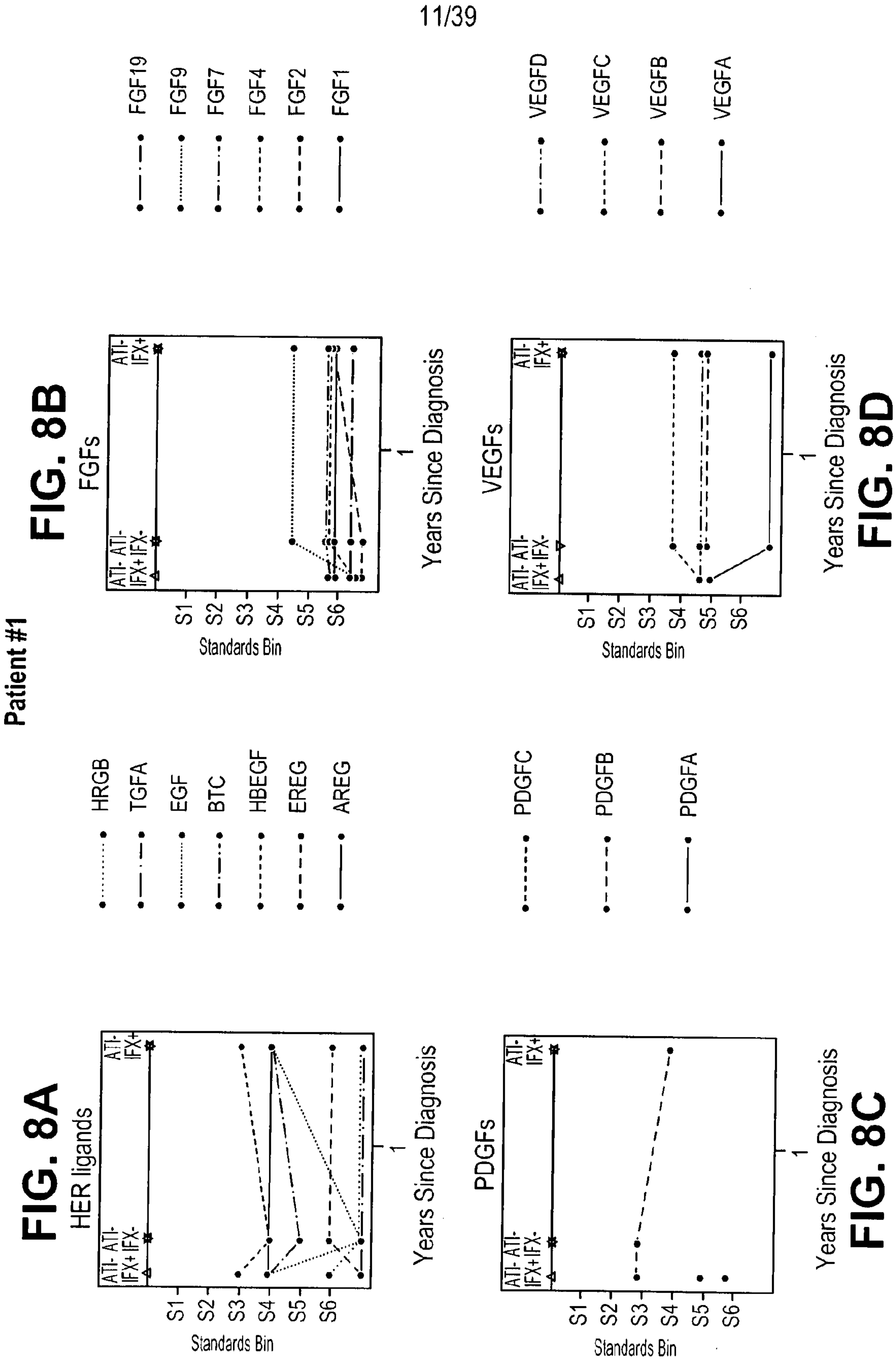
Patient A

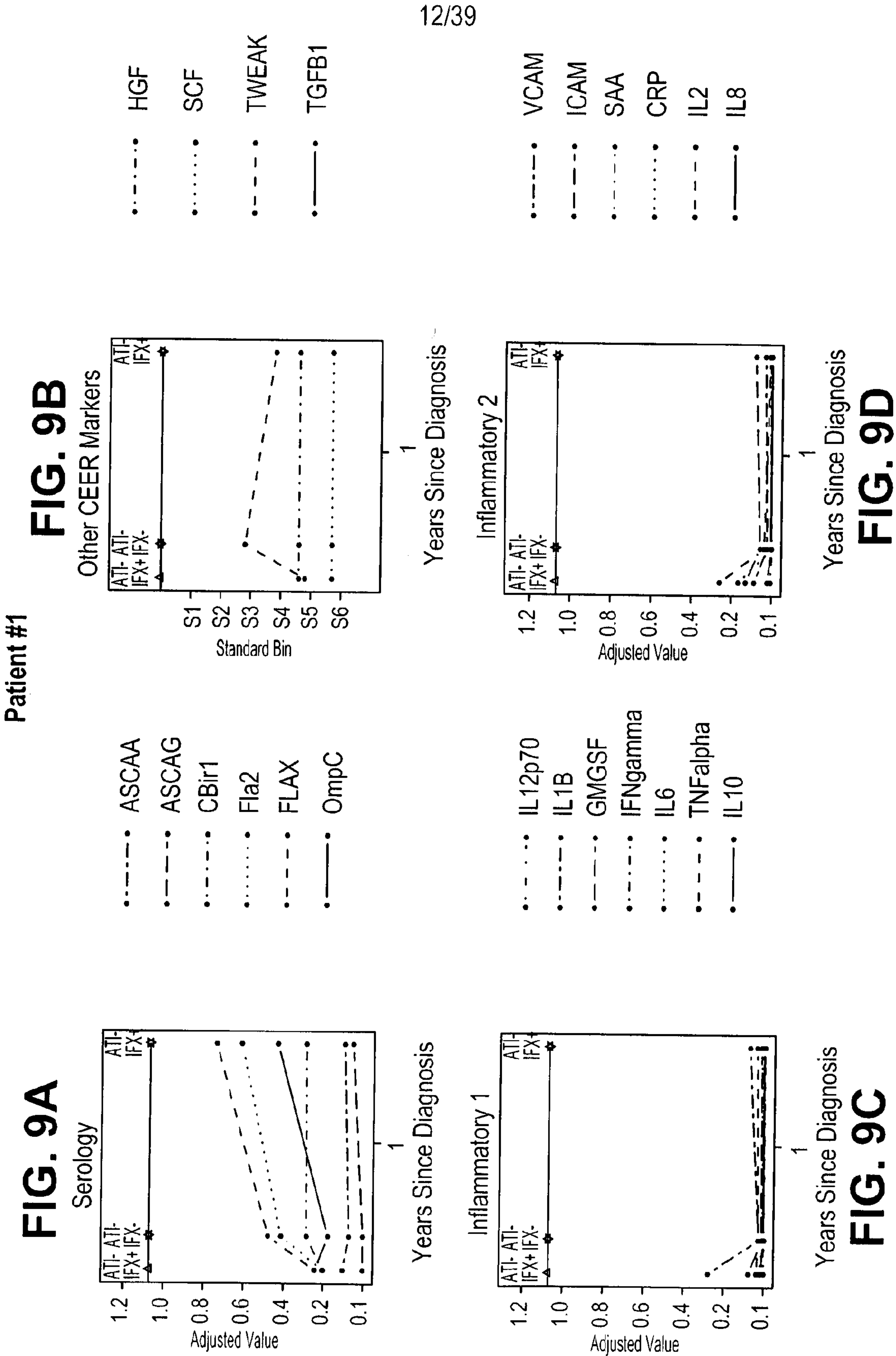
Years Since Diagnosis

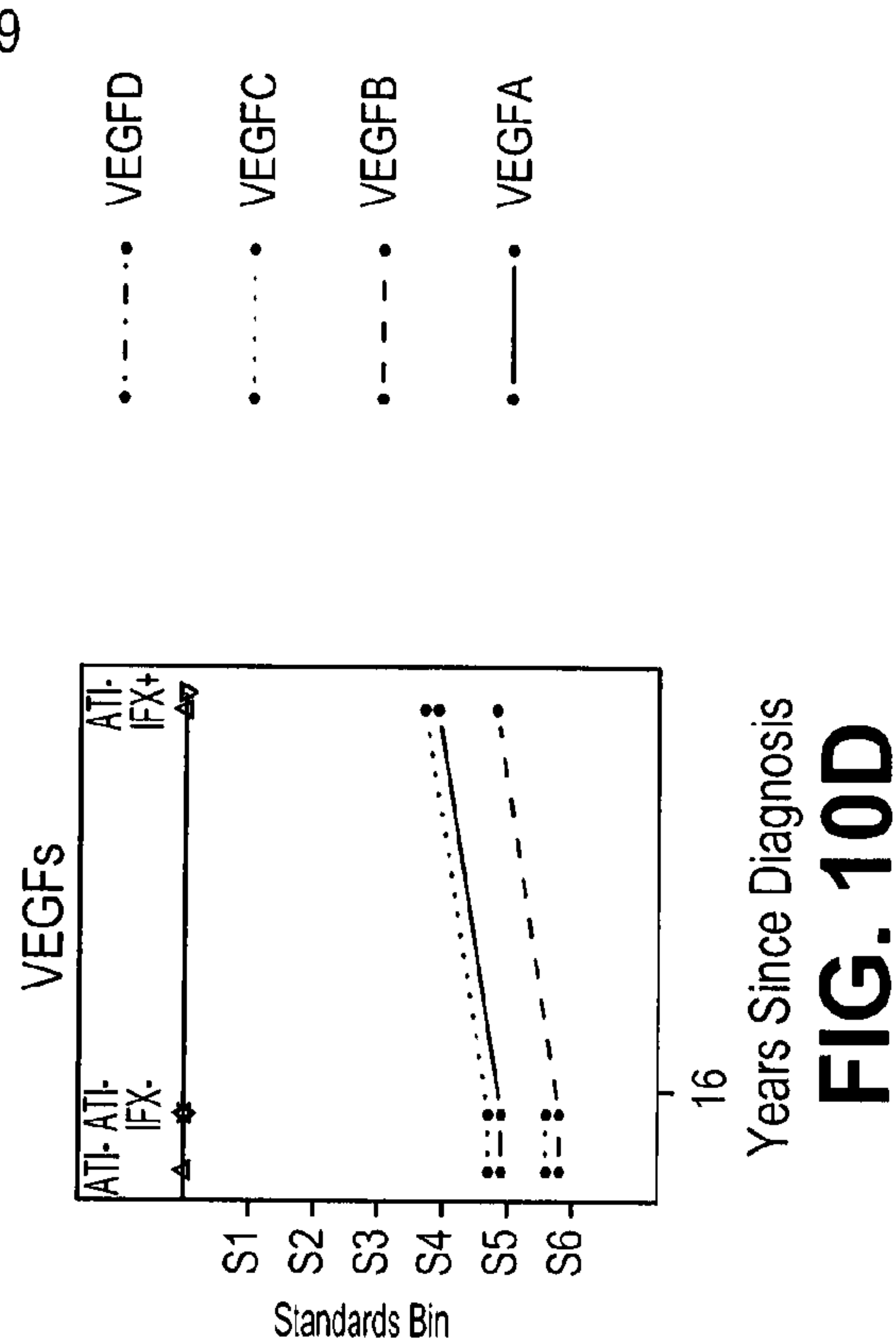
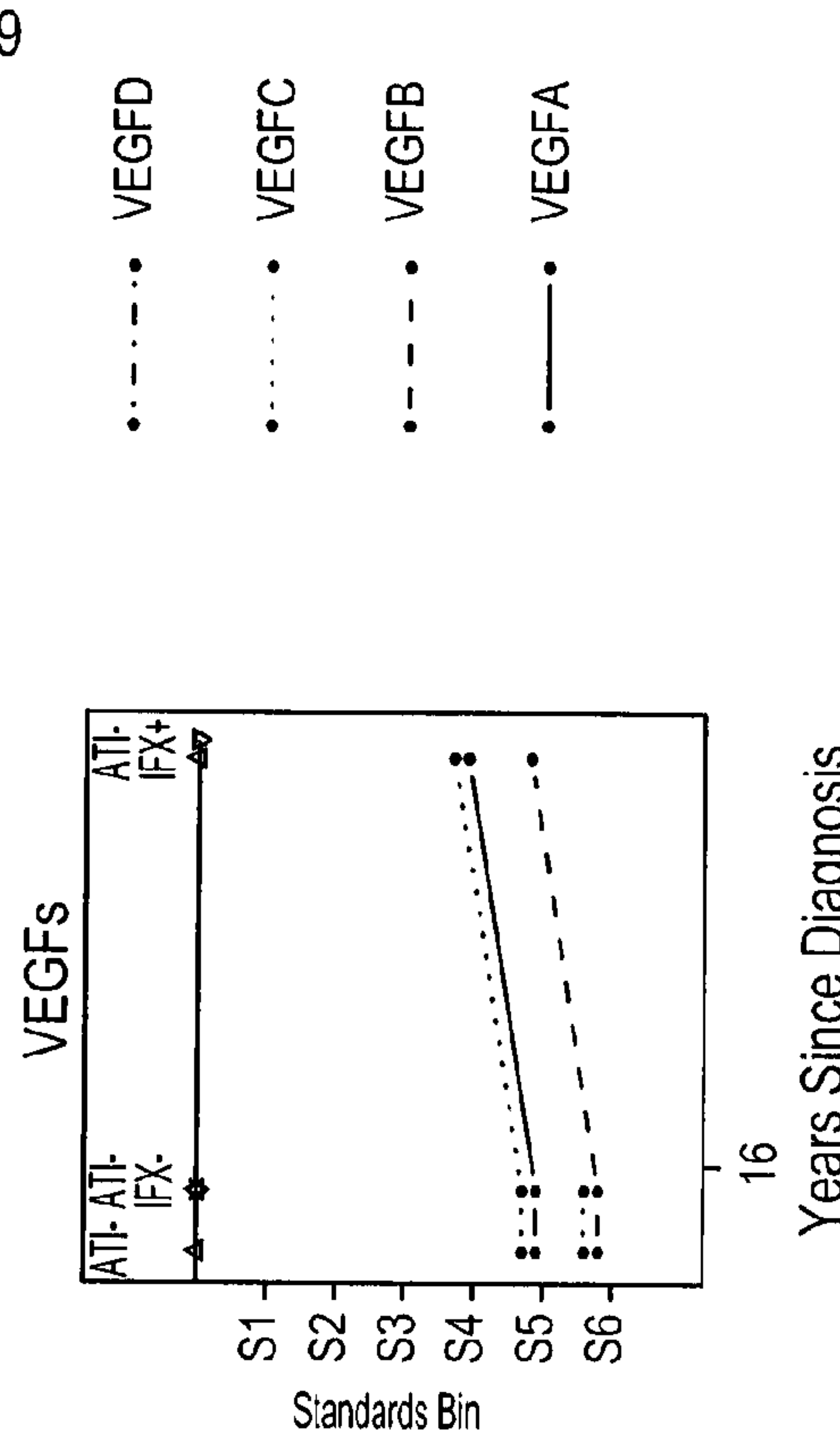
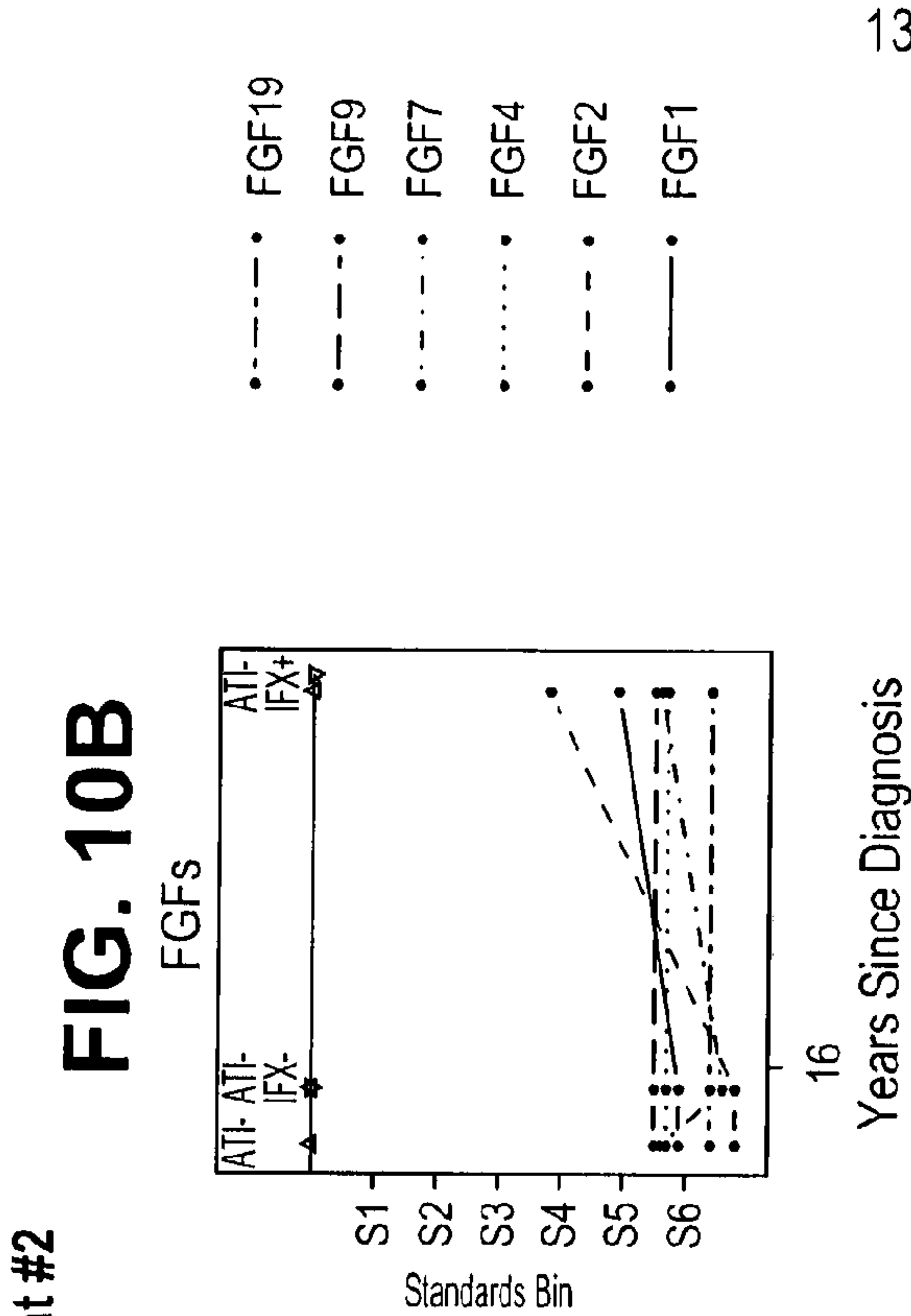
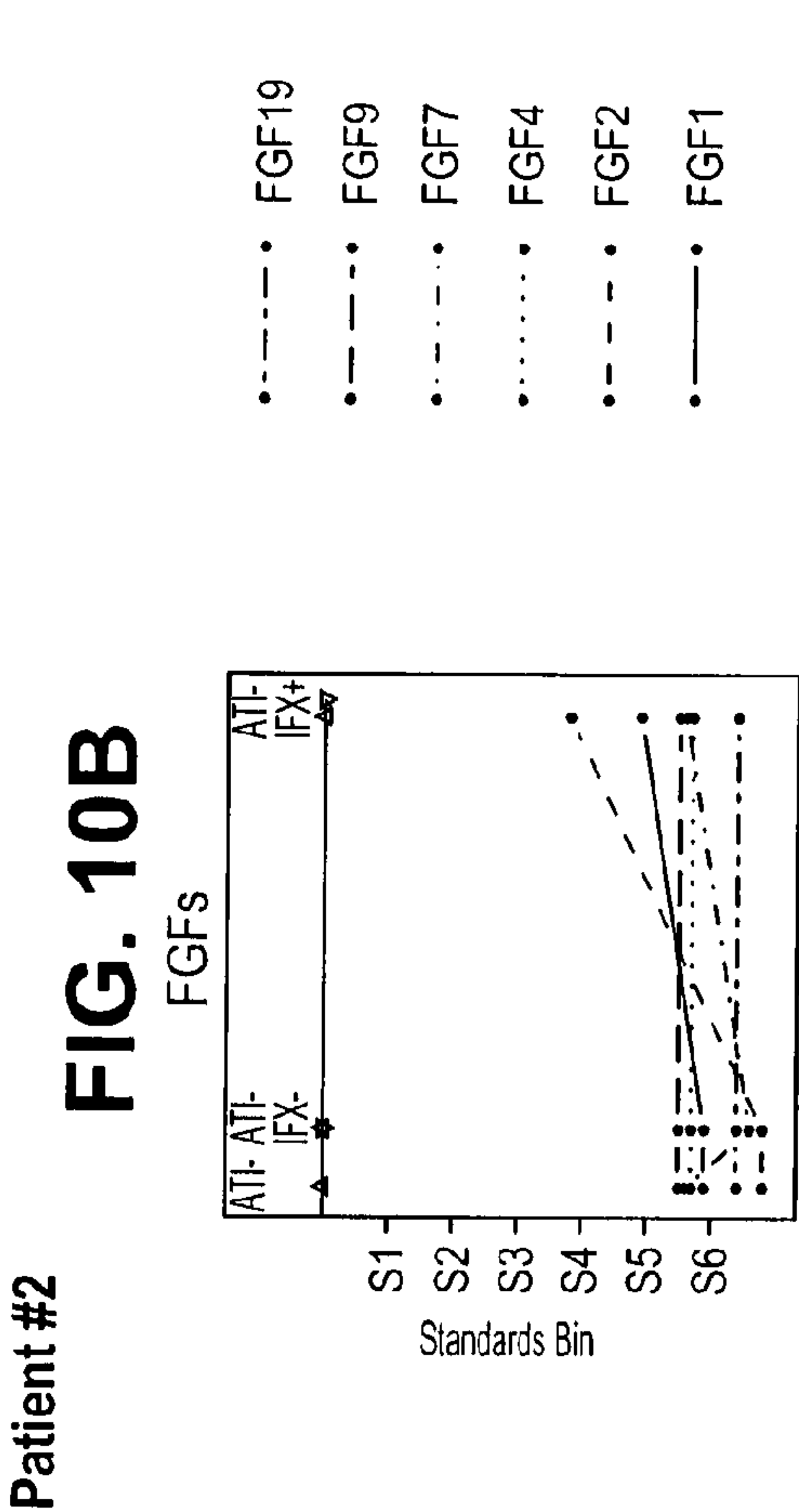
FIG. 7F

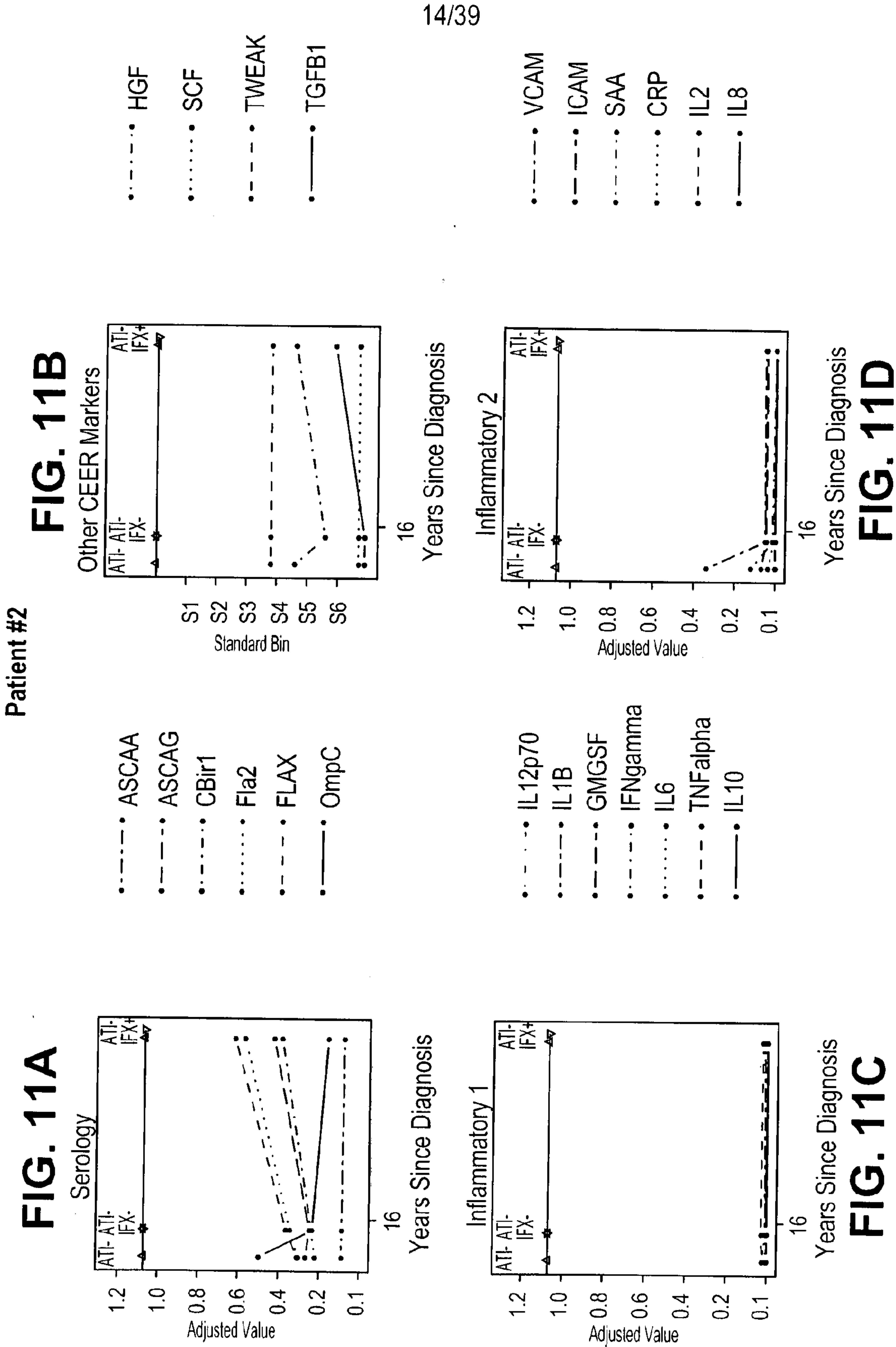
Patient A

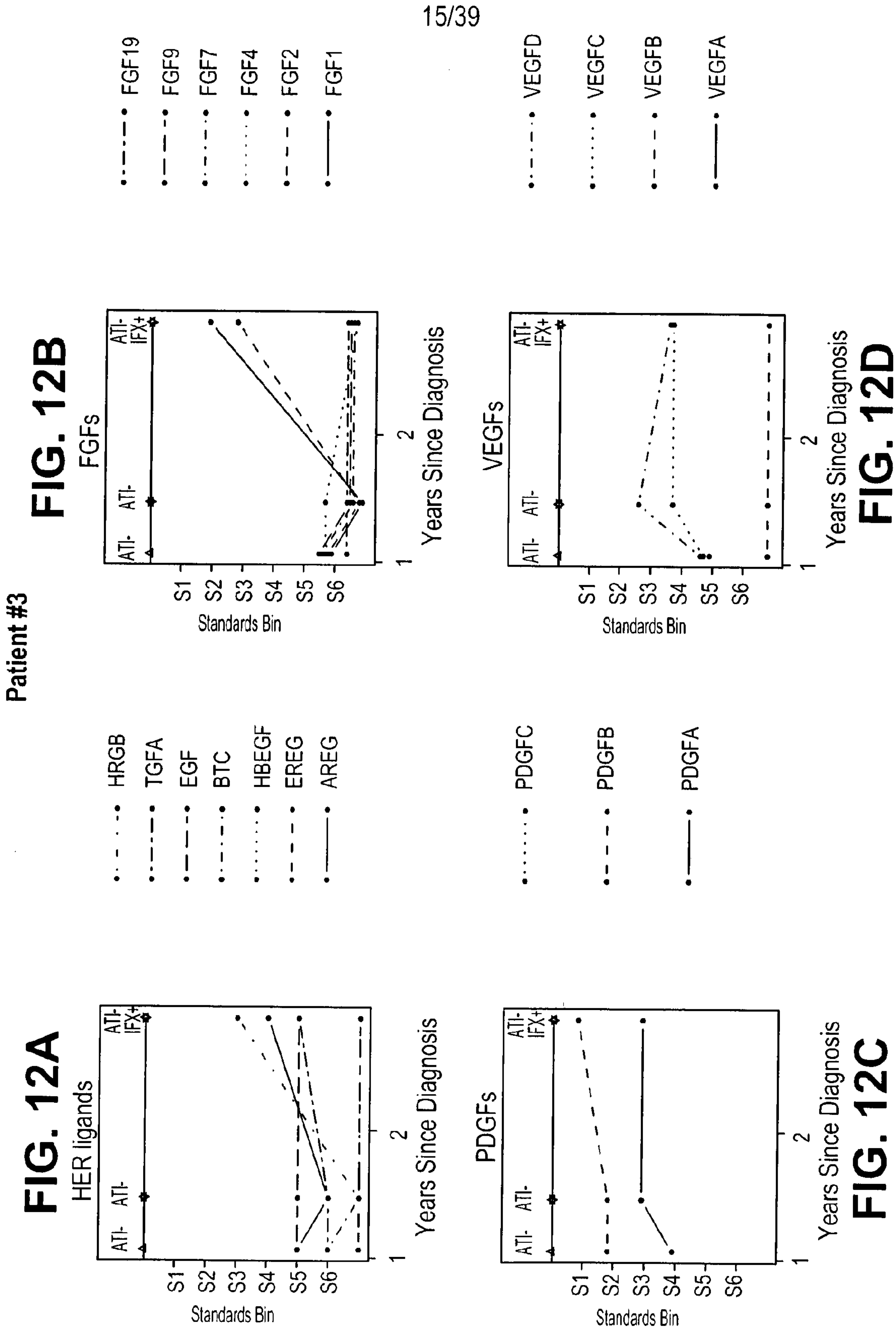
Years Since Diagnosis

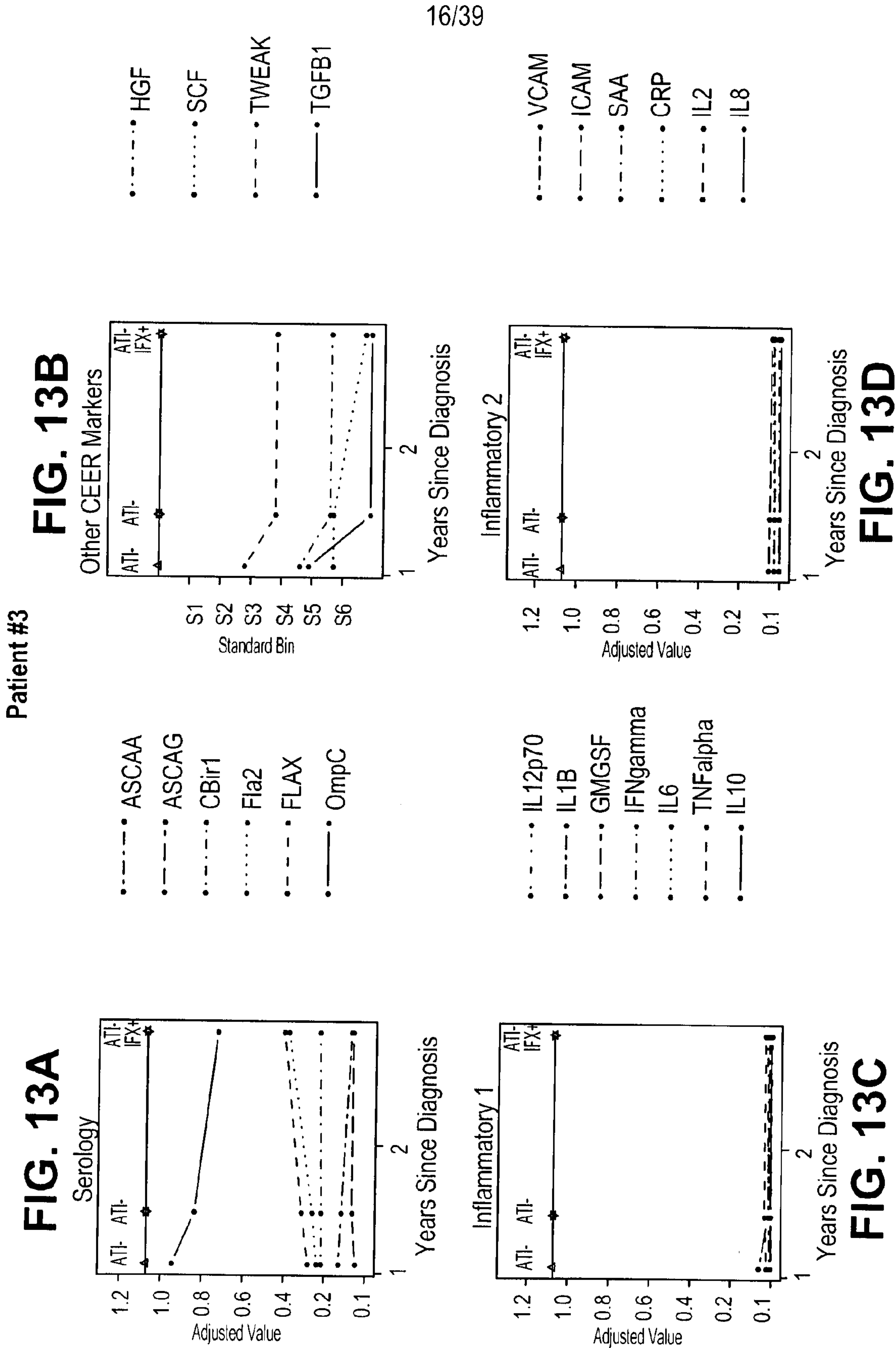


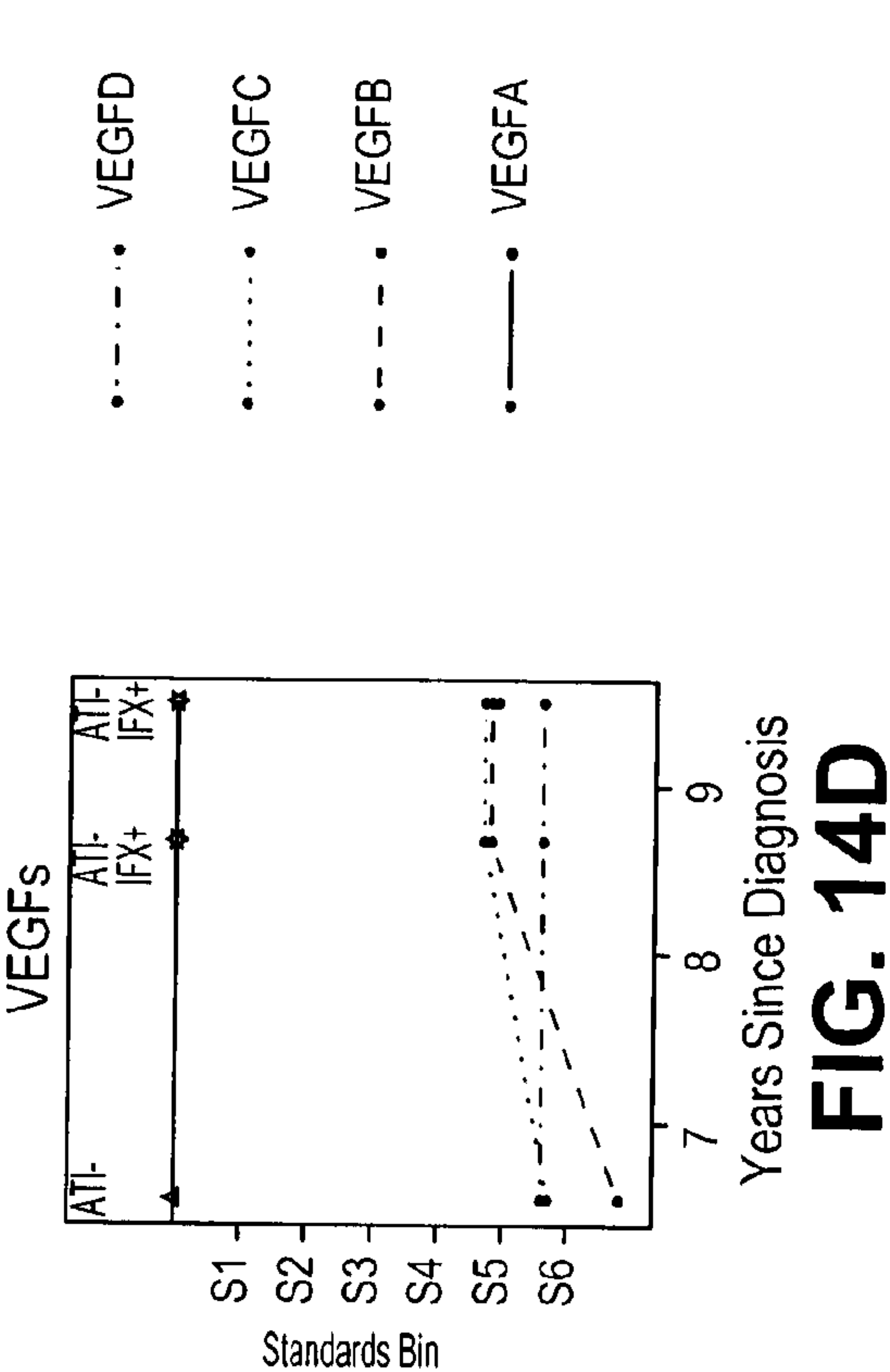
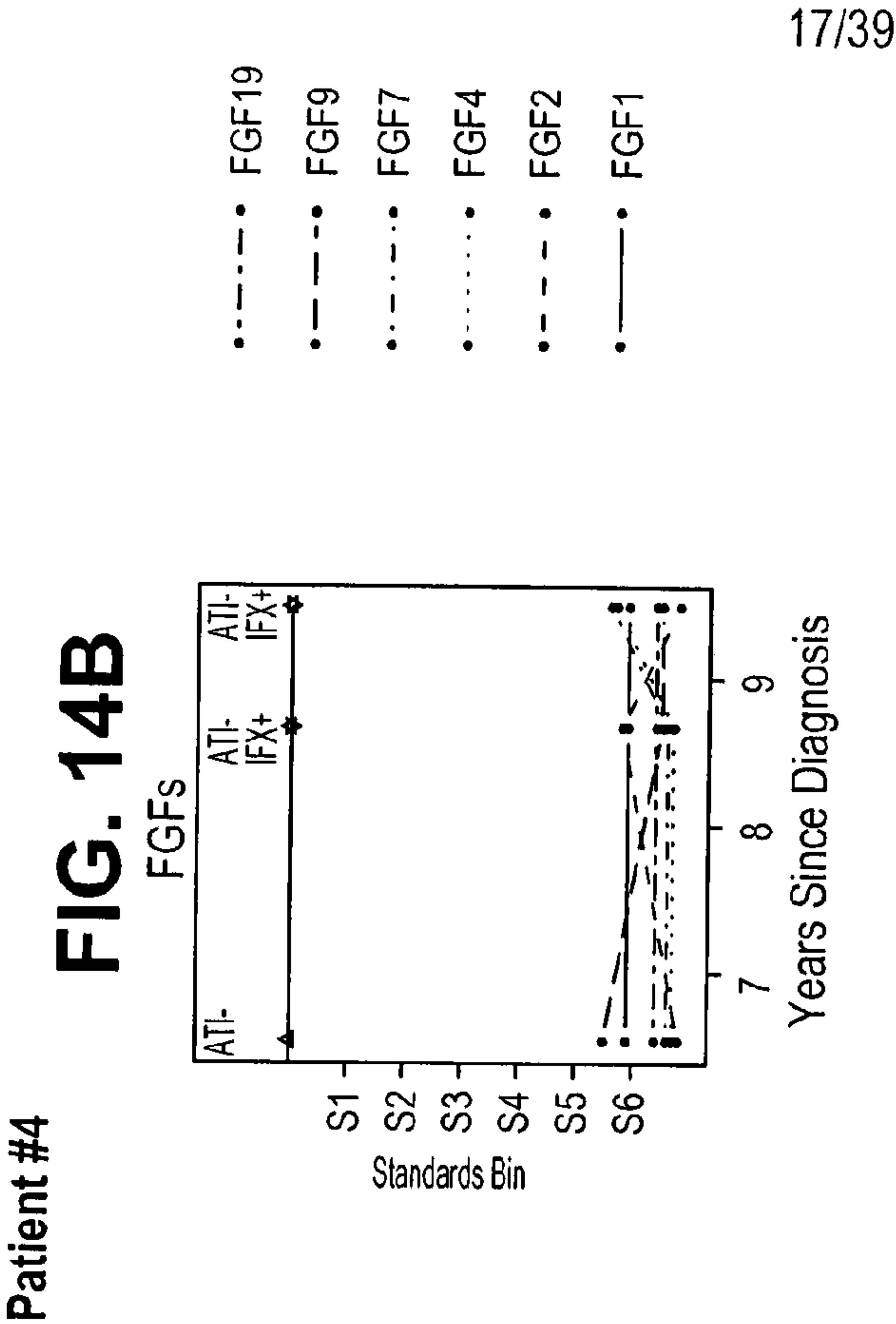


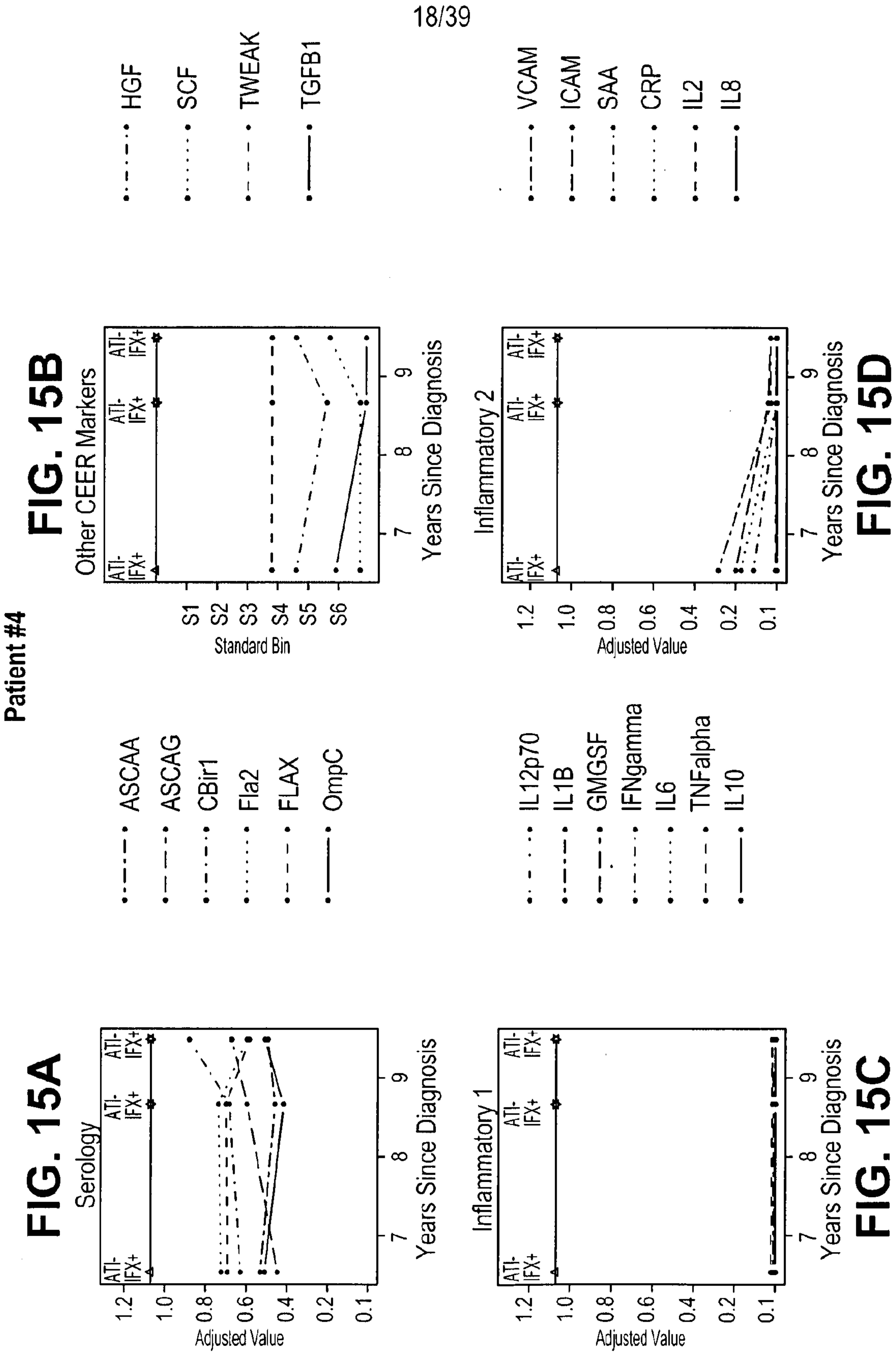


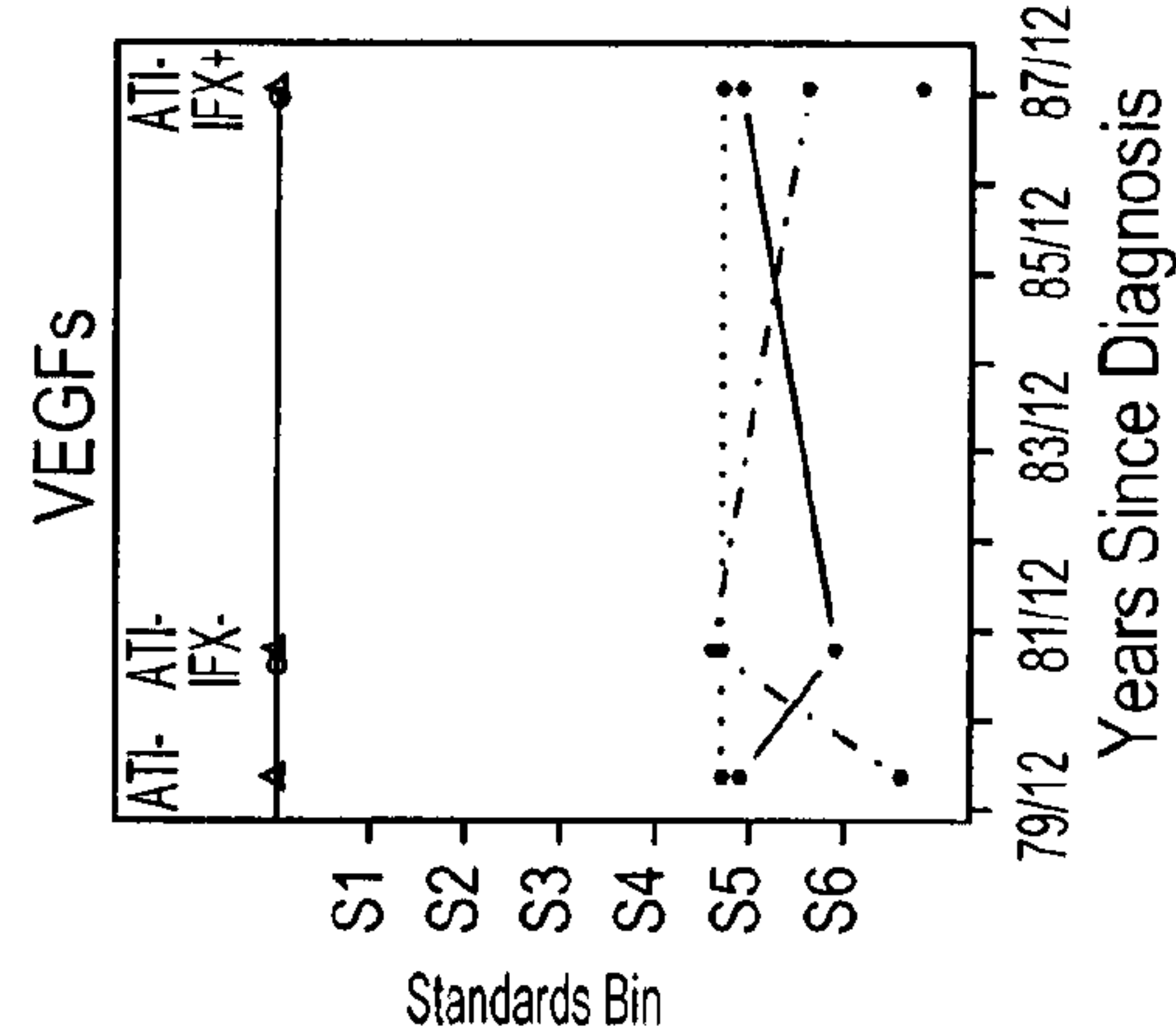
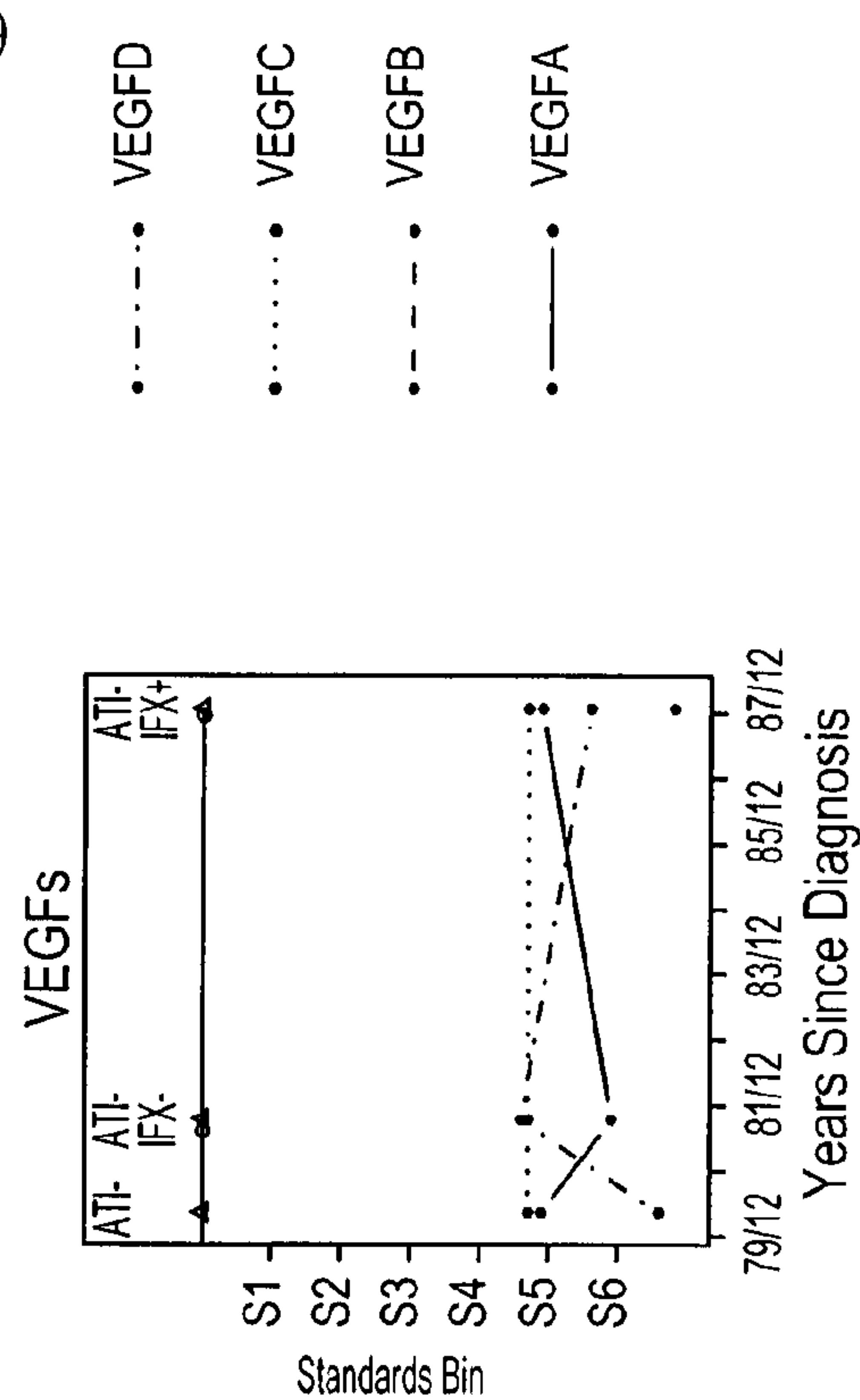
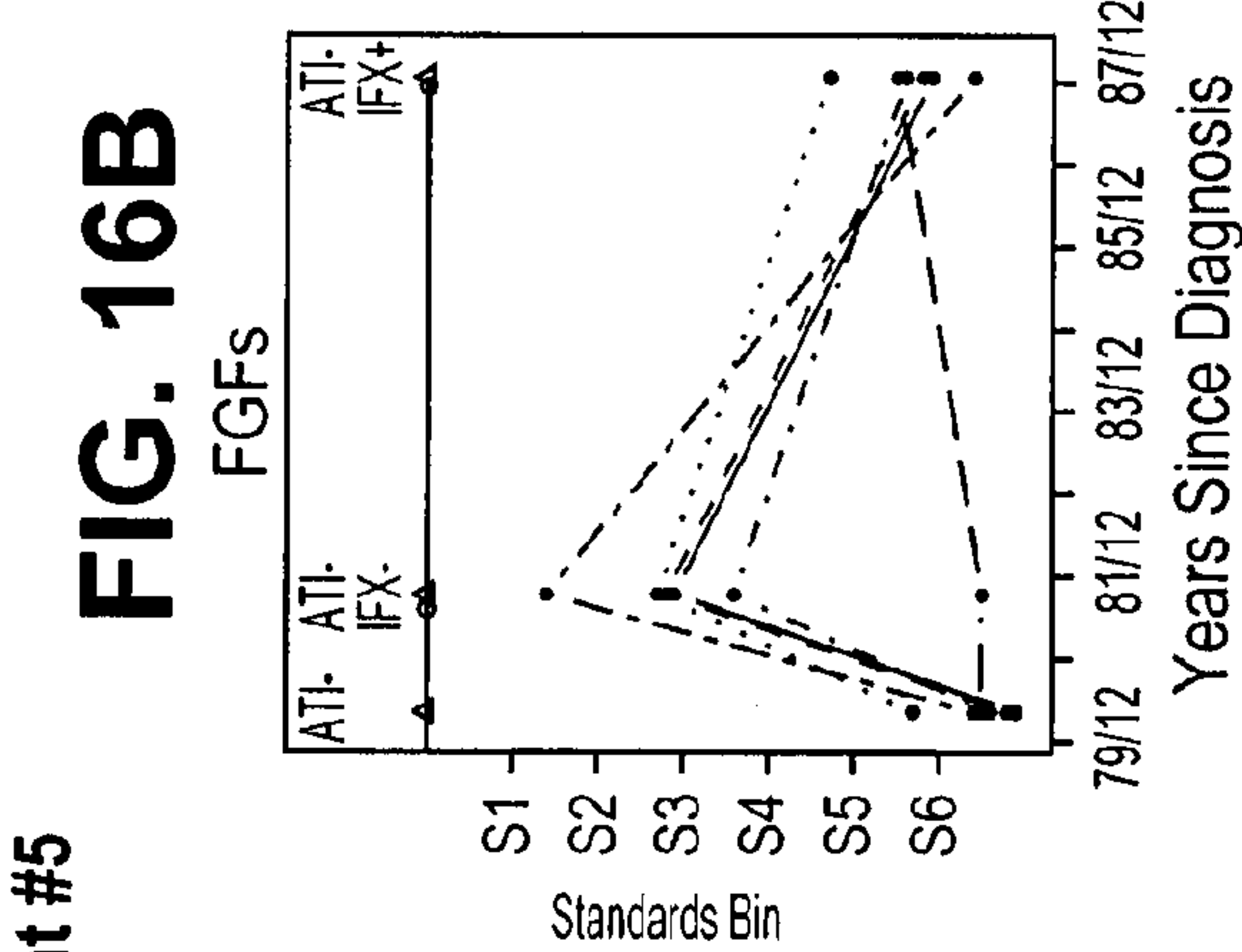
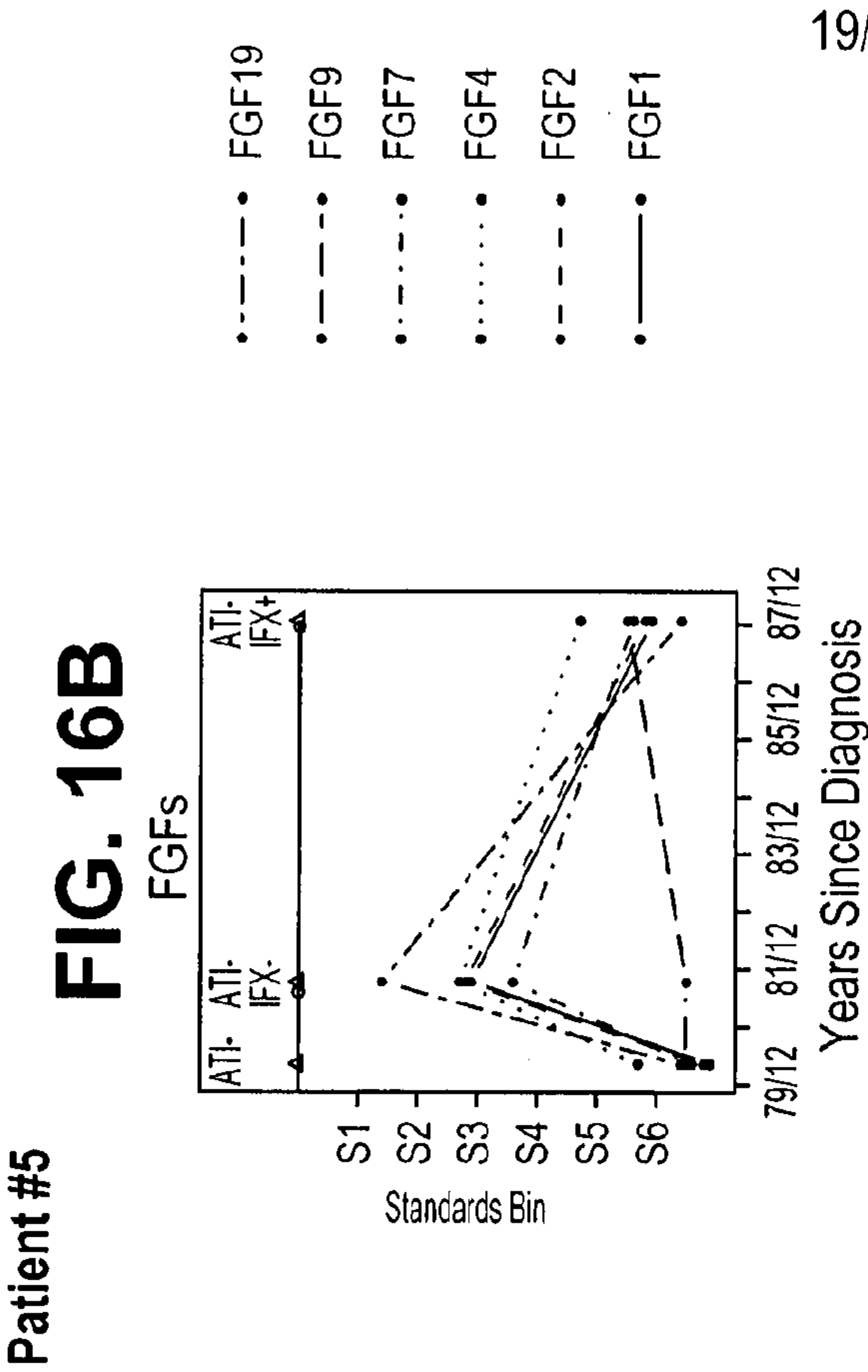


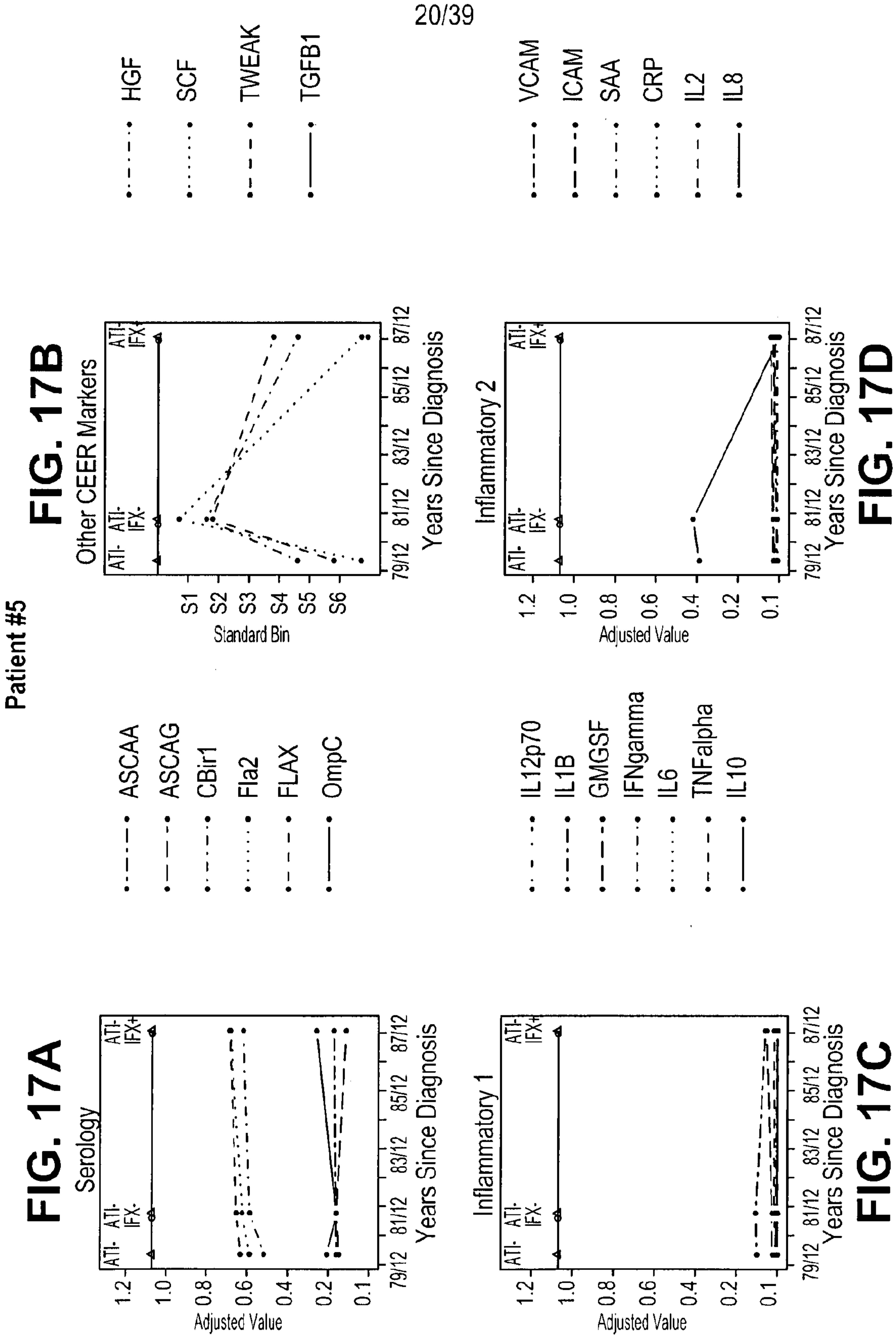


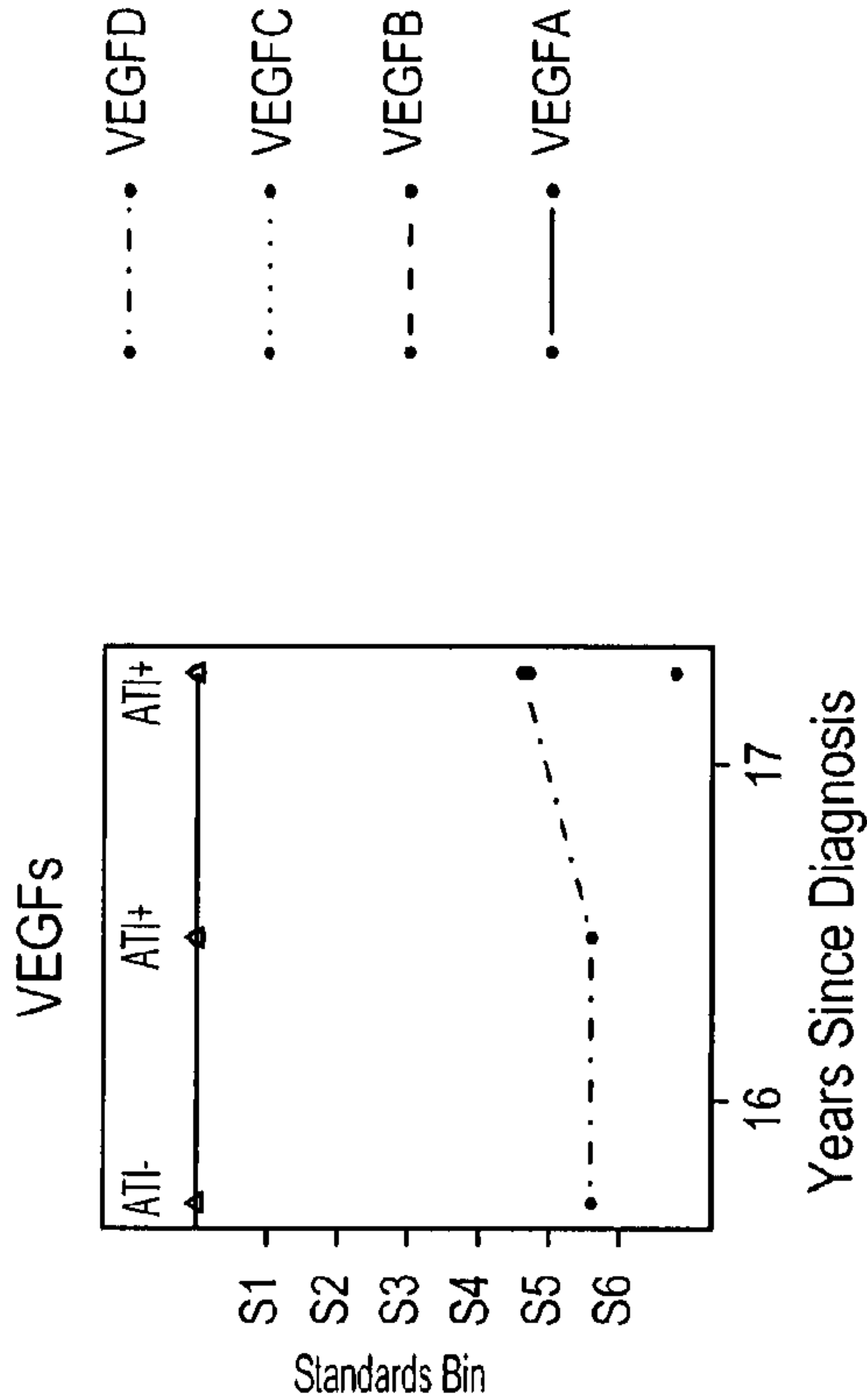
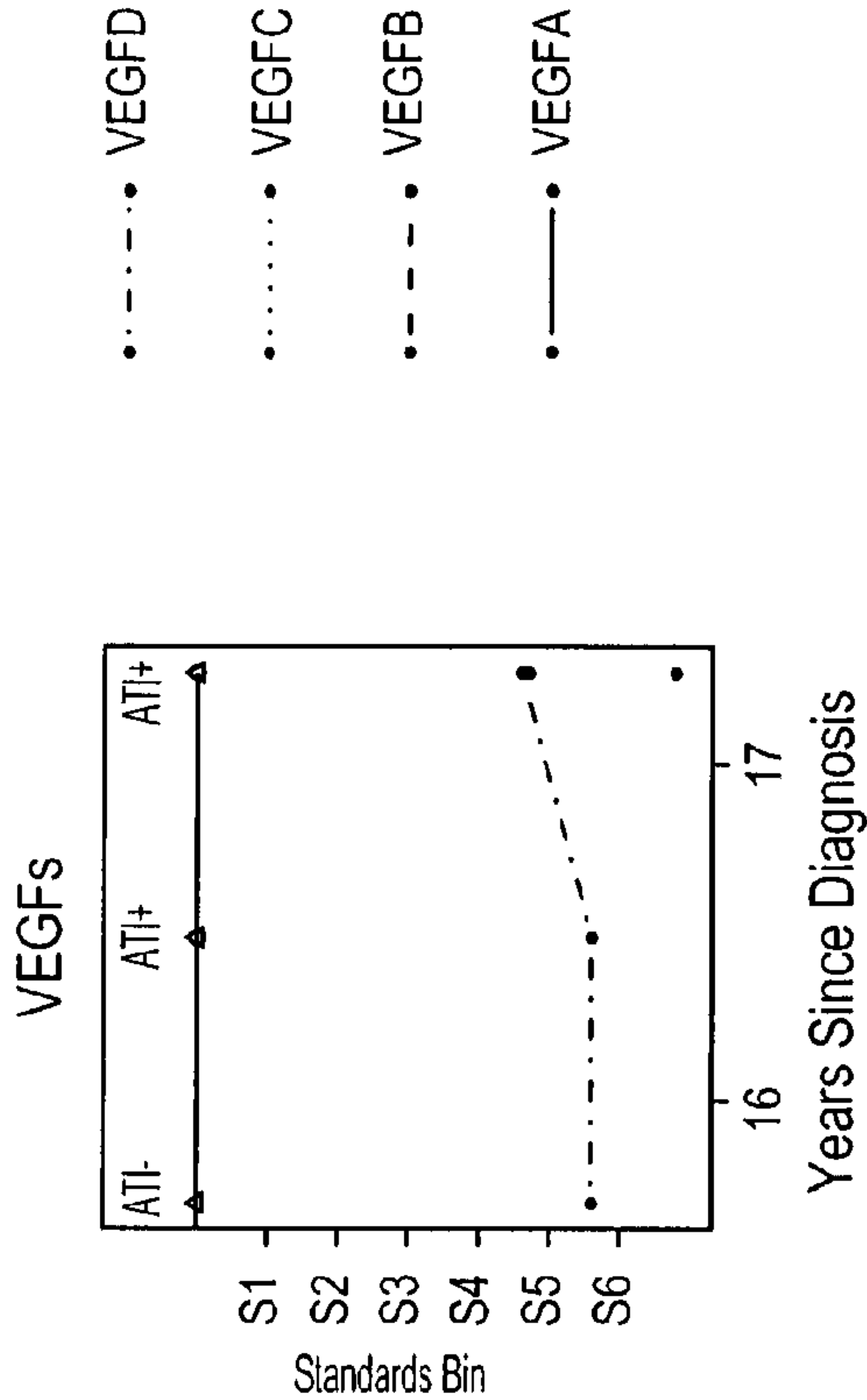
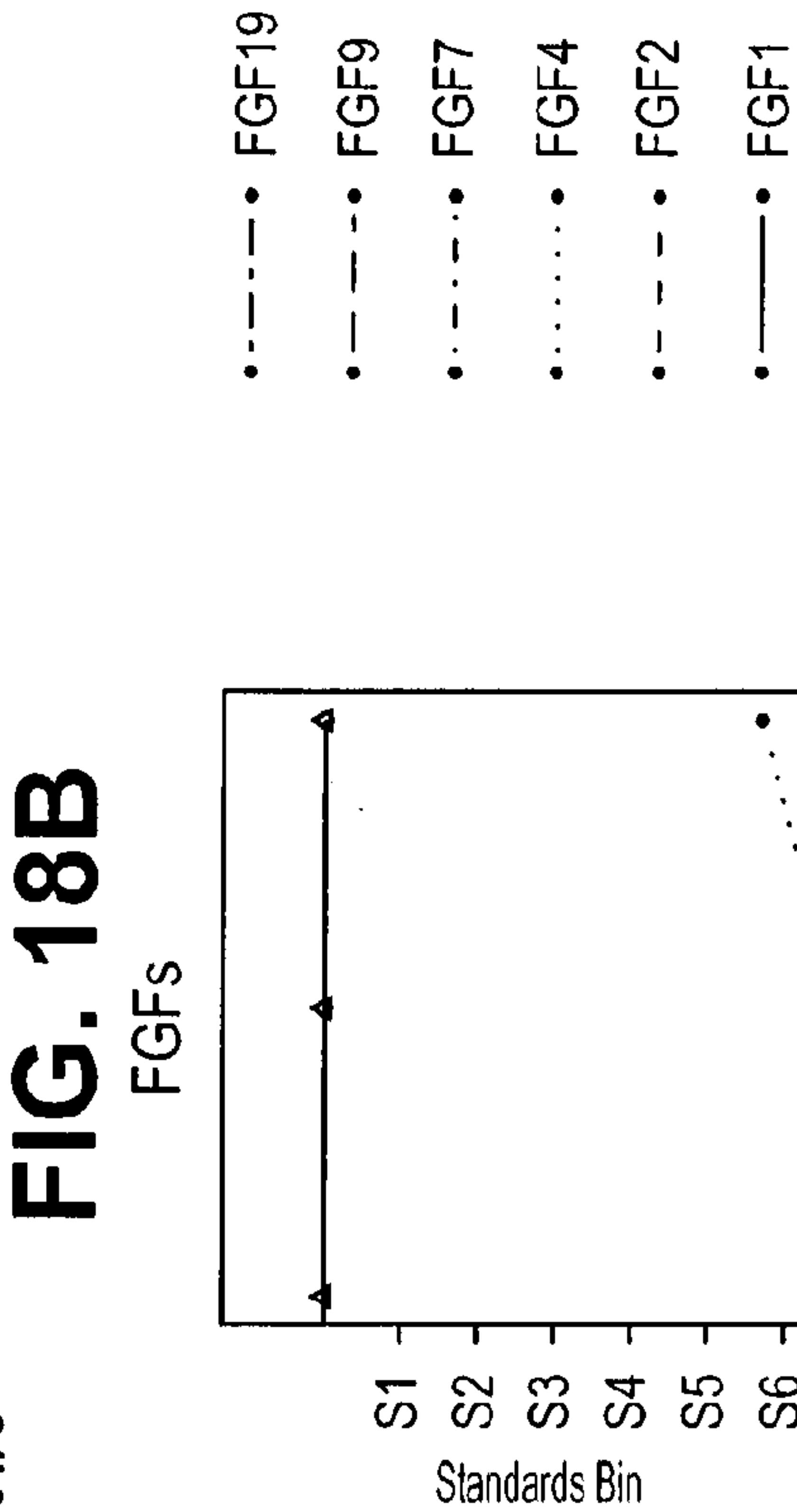
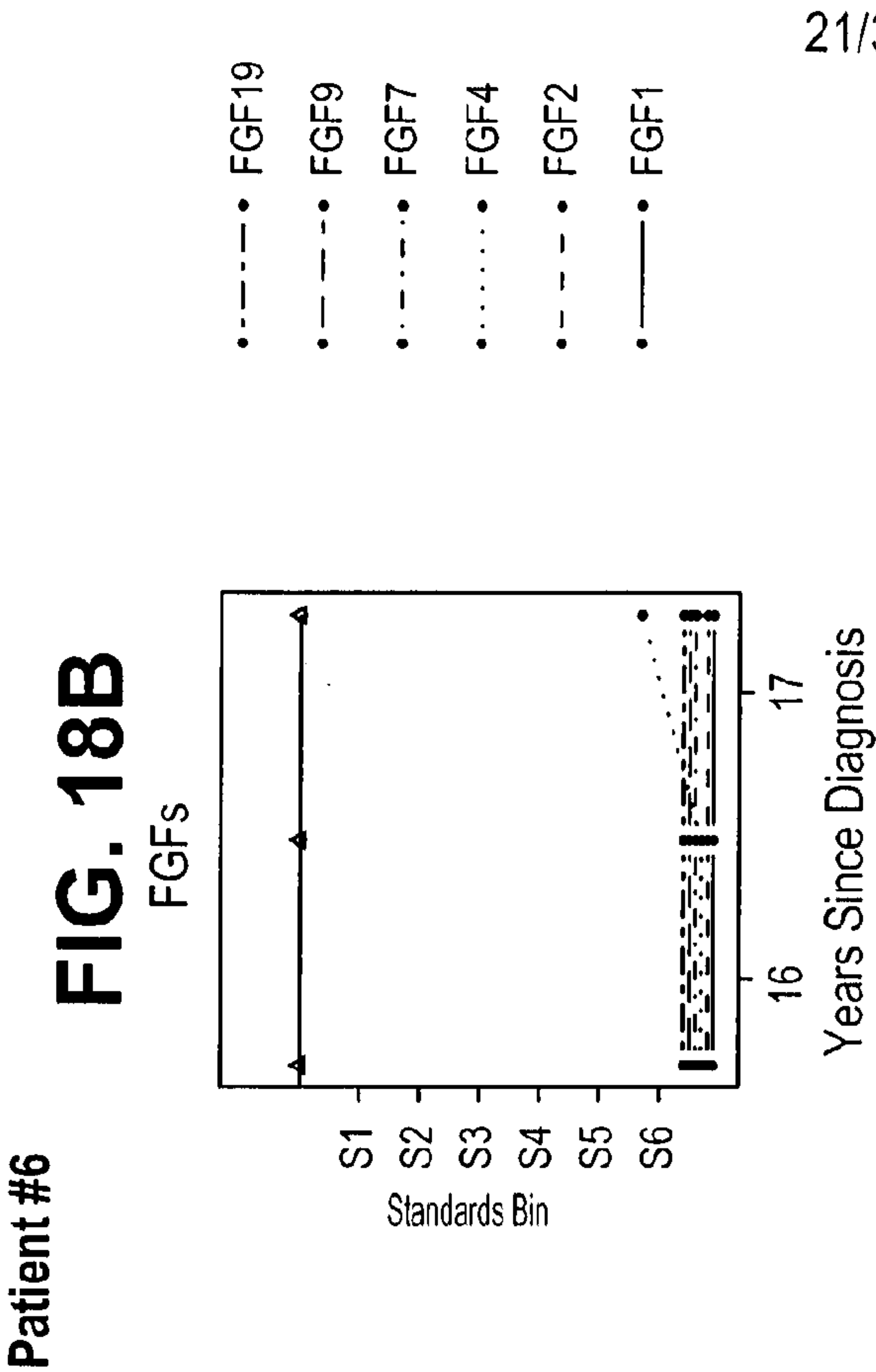


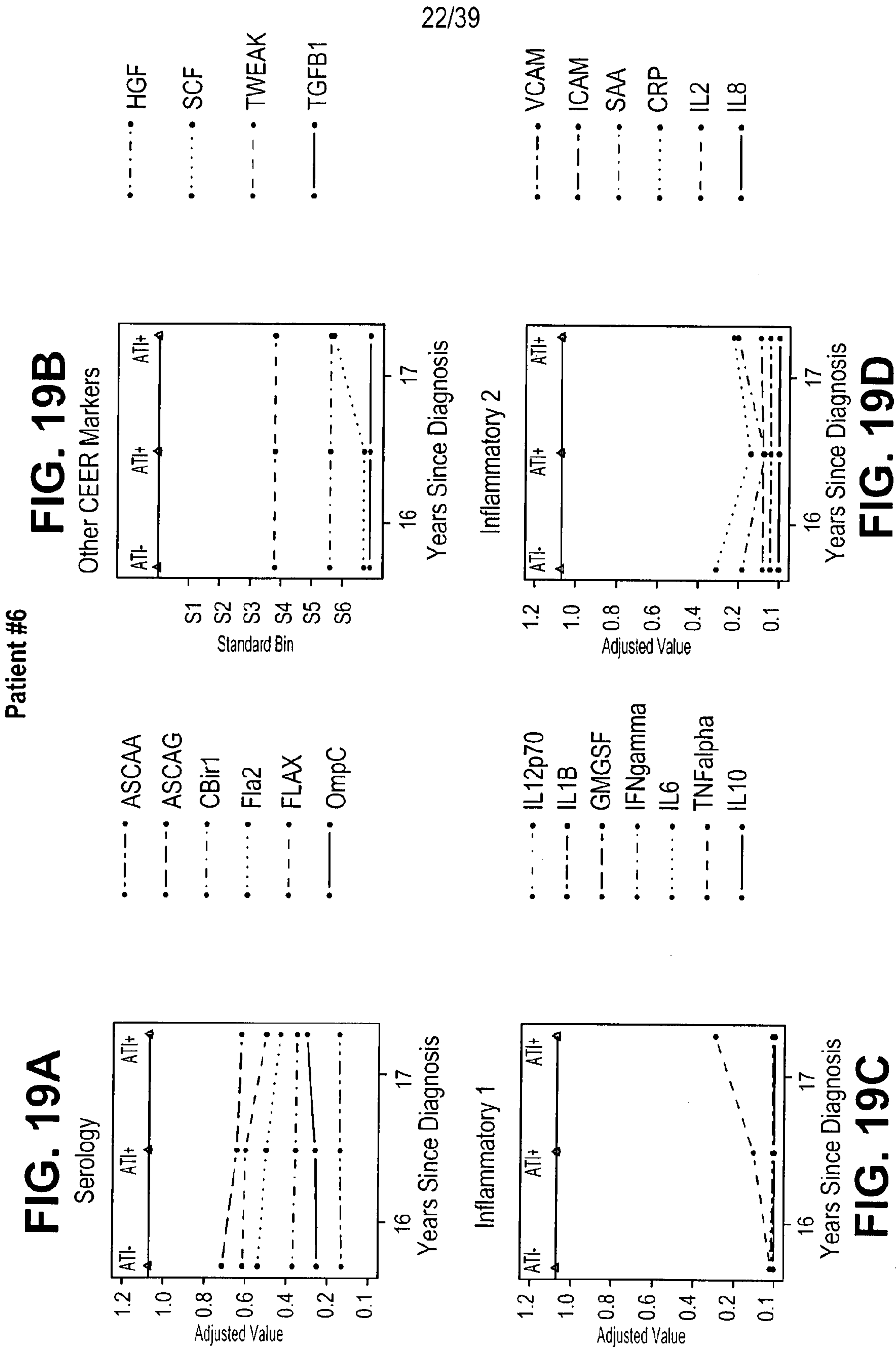


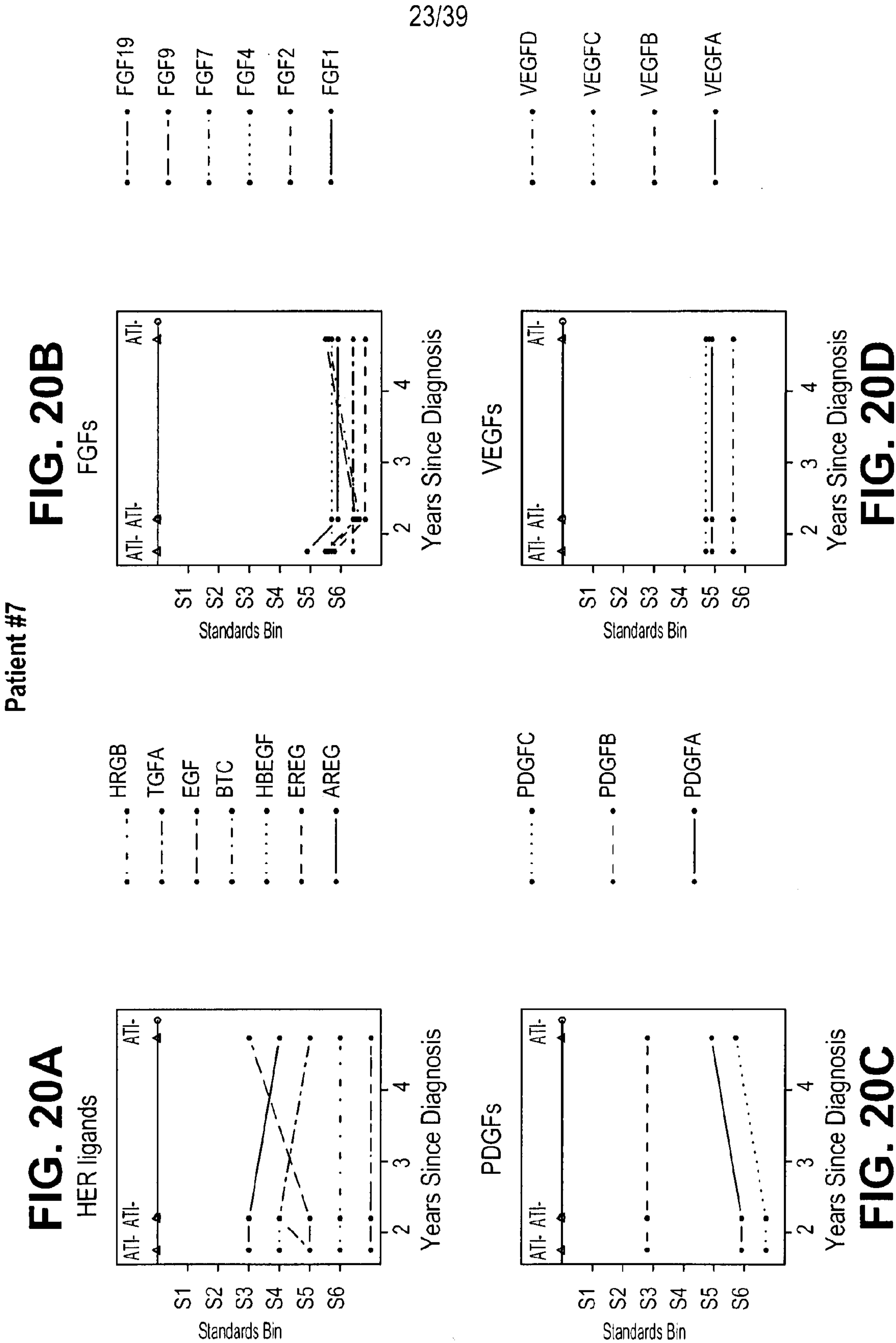


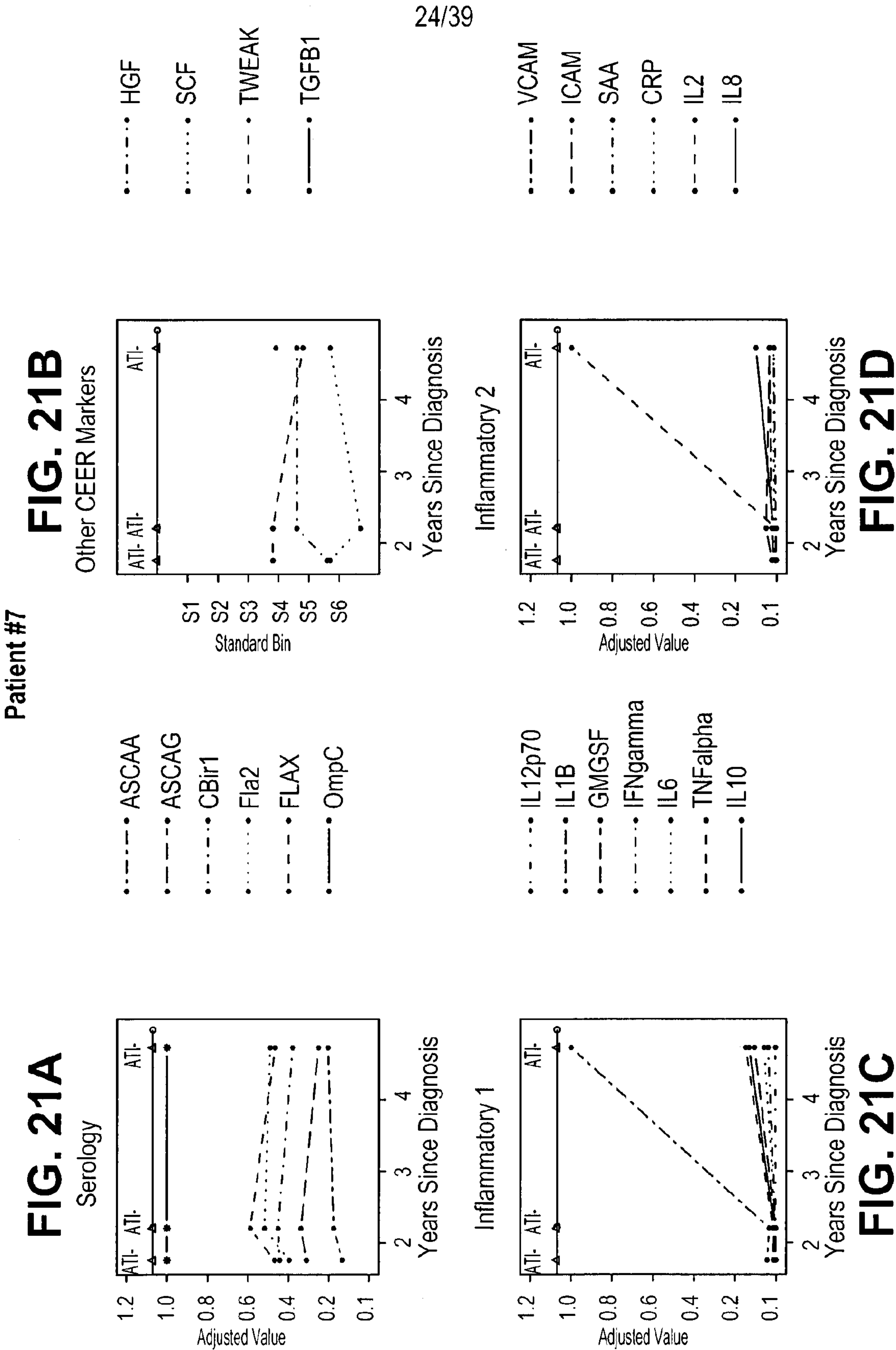












Patient #8

FIG. 22A

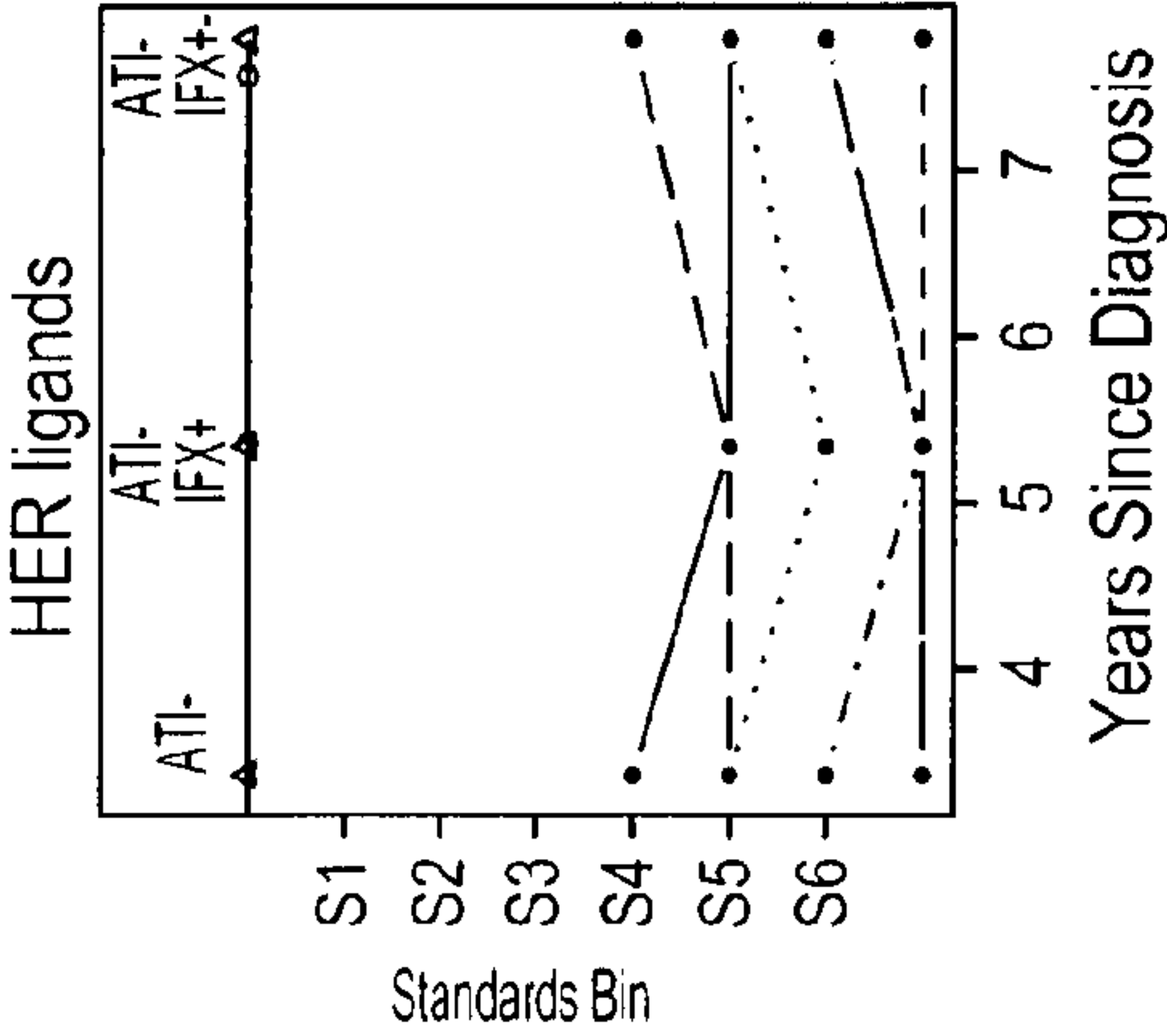
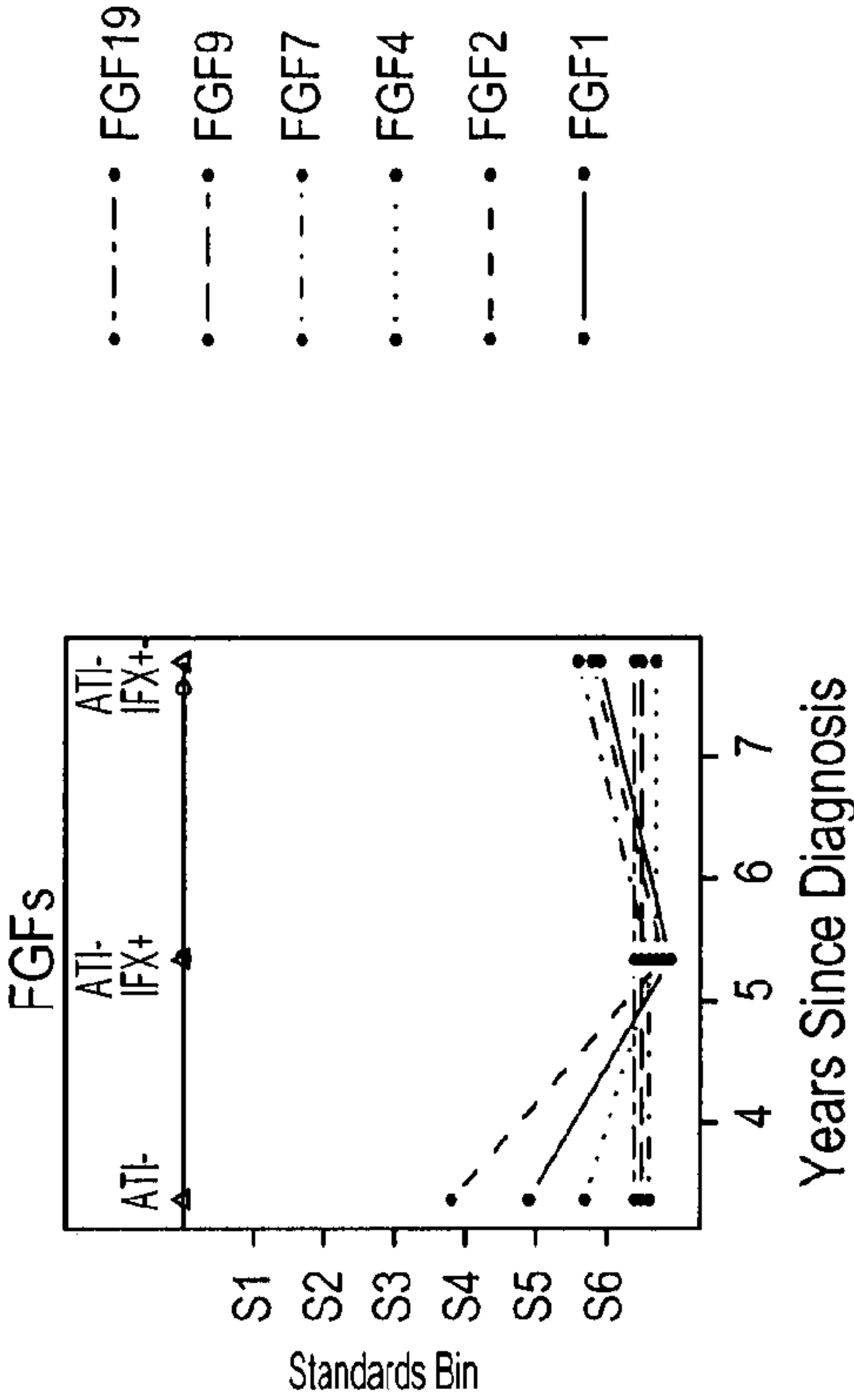


FIG. 22B



PDGFs

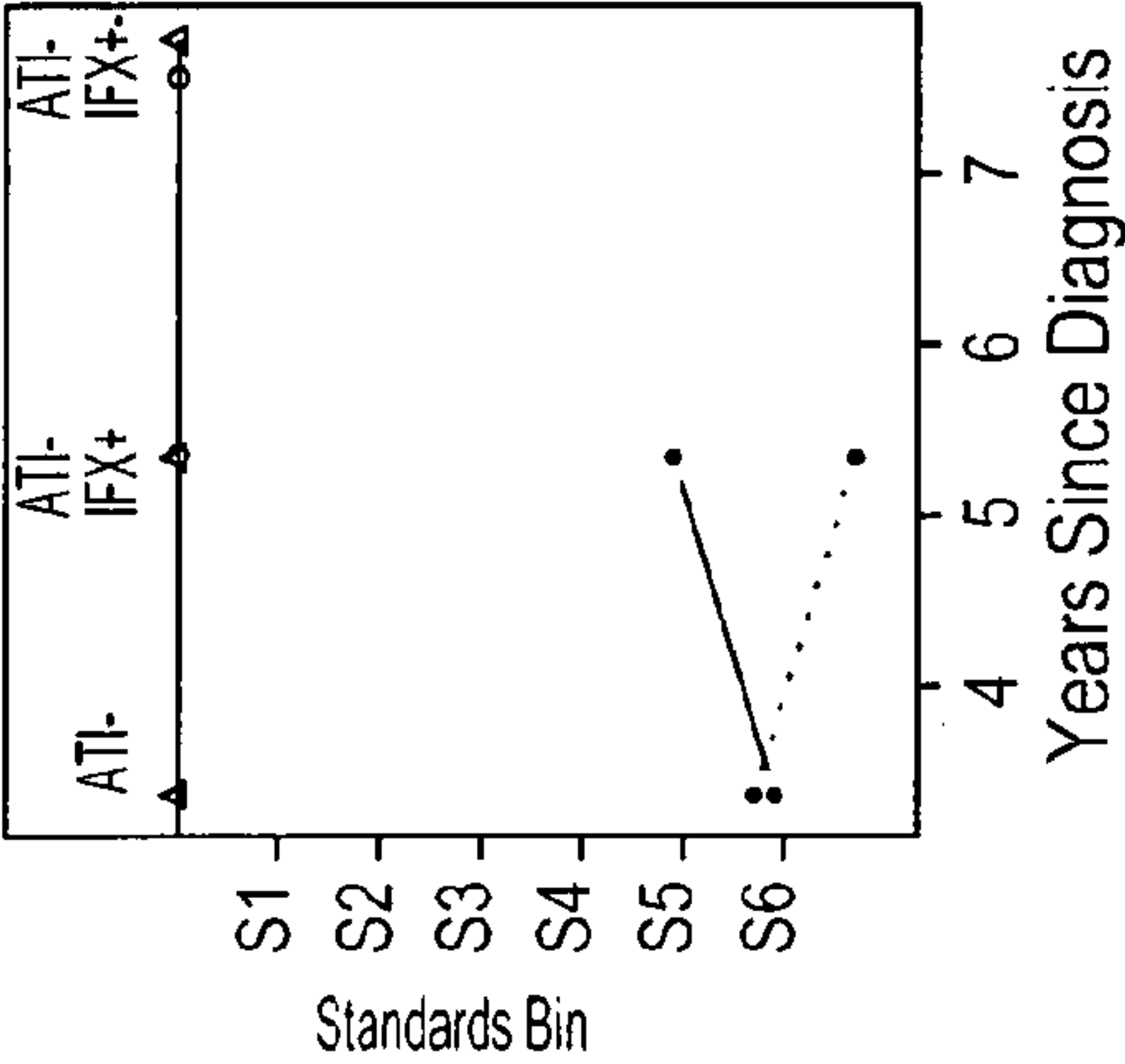


FIG. 22C

VEGFs

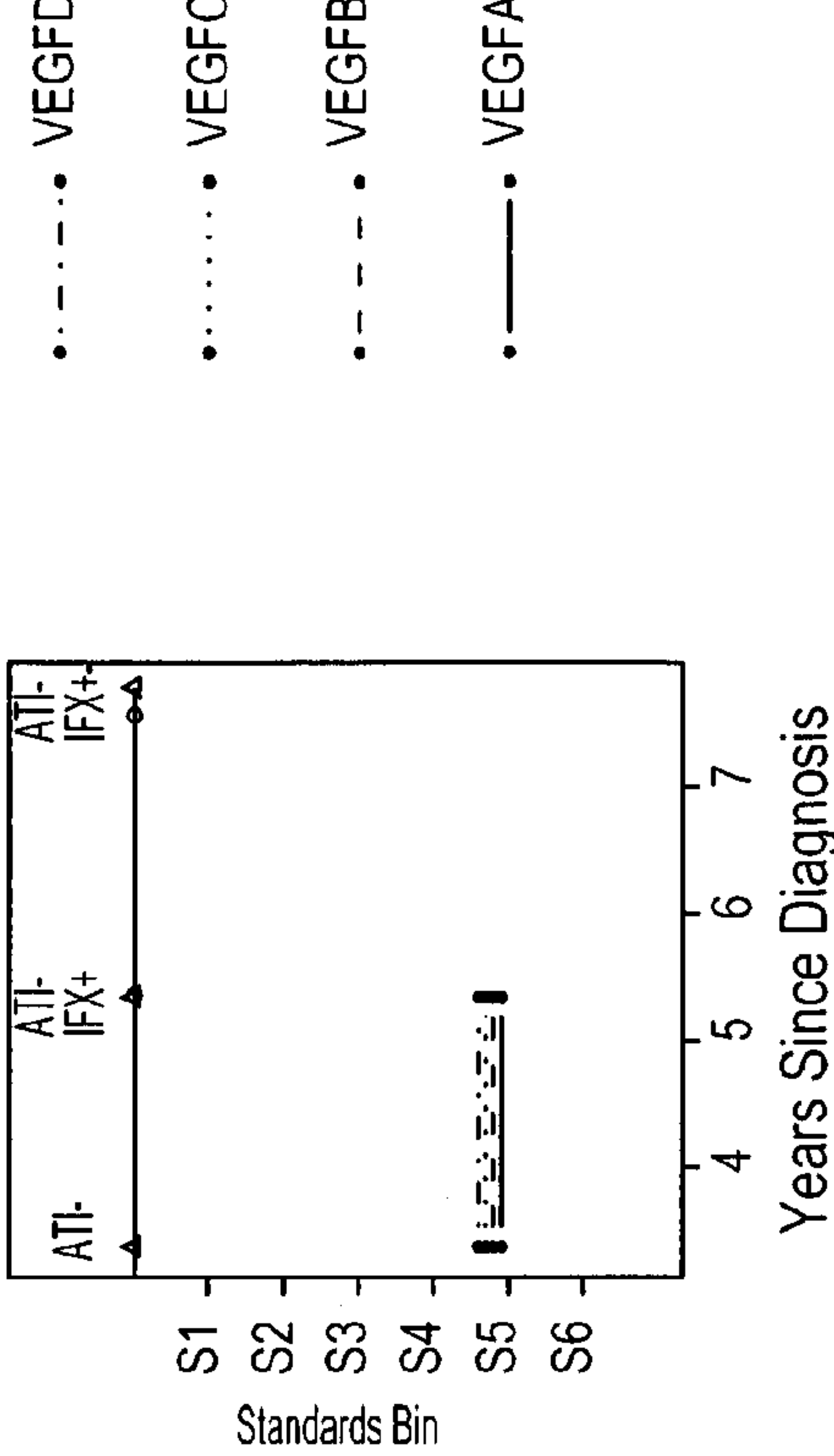


FIG. 22D

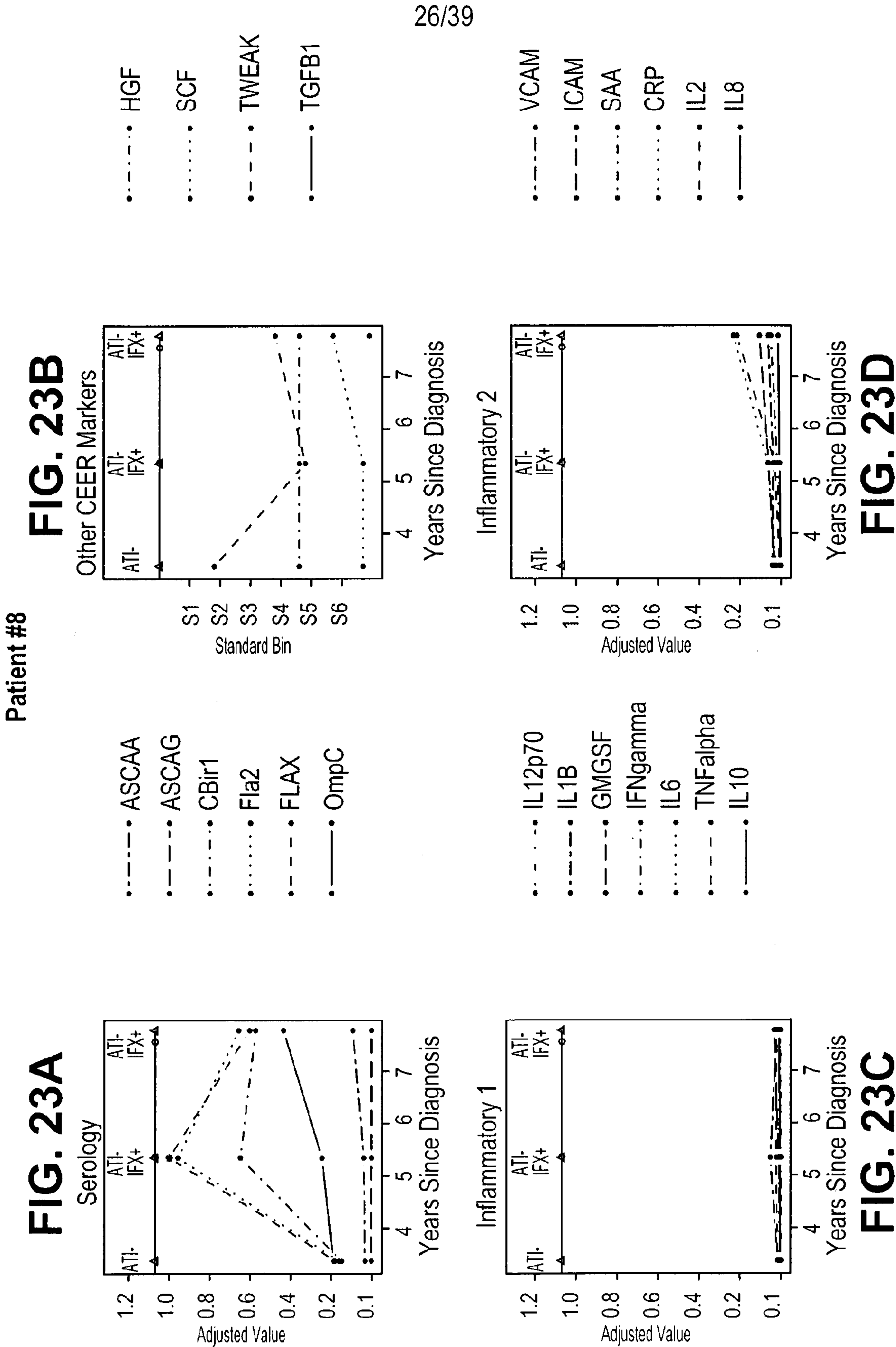


FIG. 24A

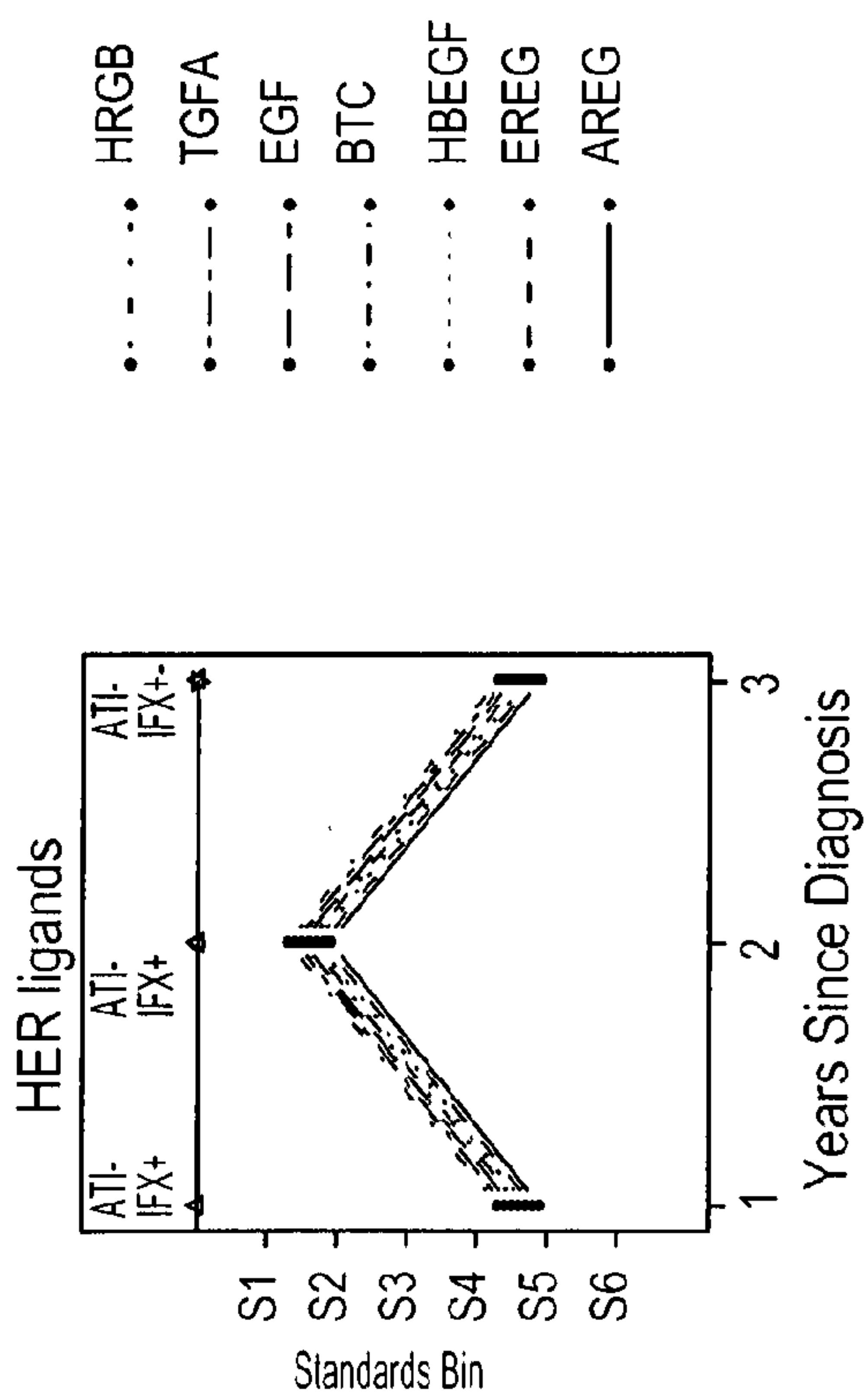
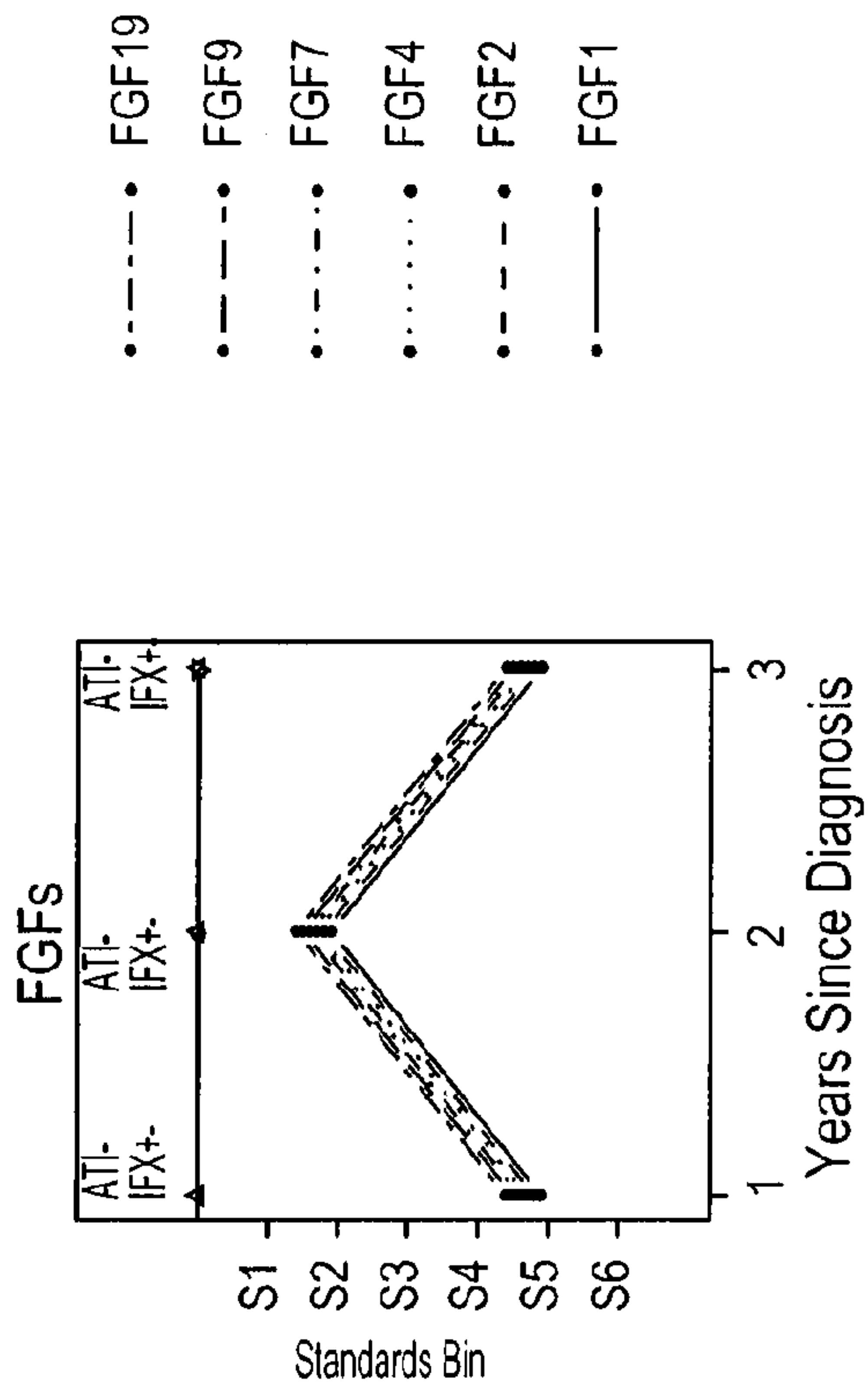


FIG. 24B



PDFS

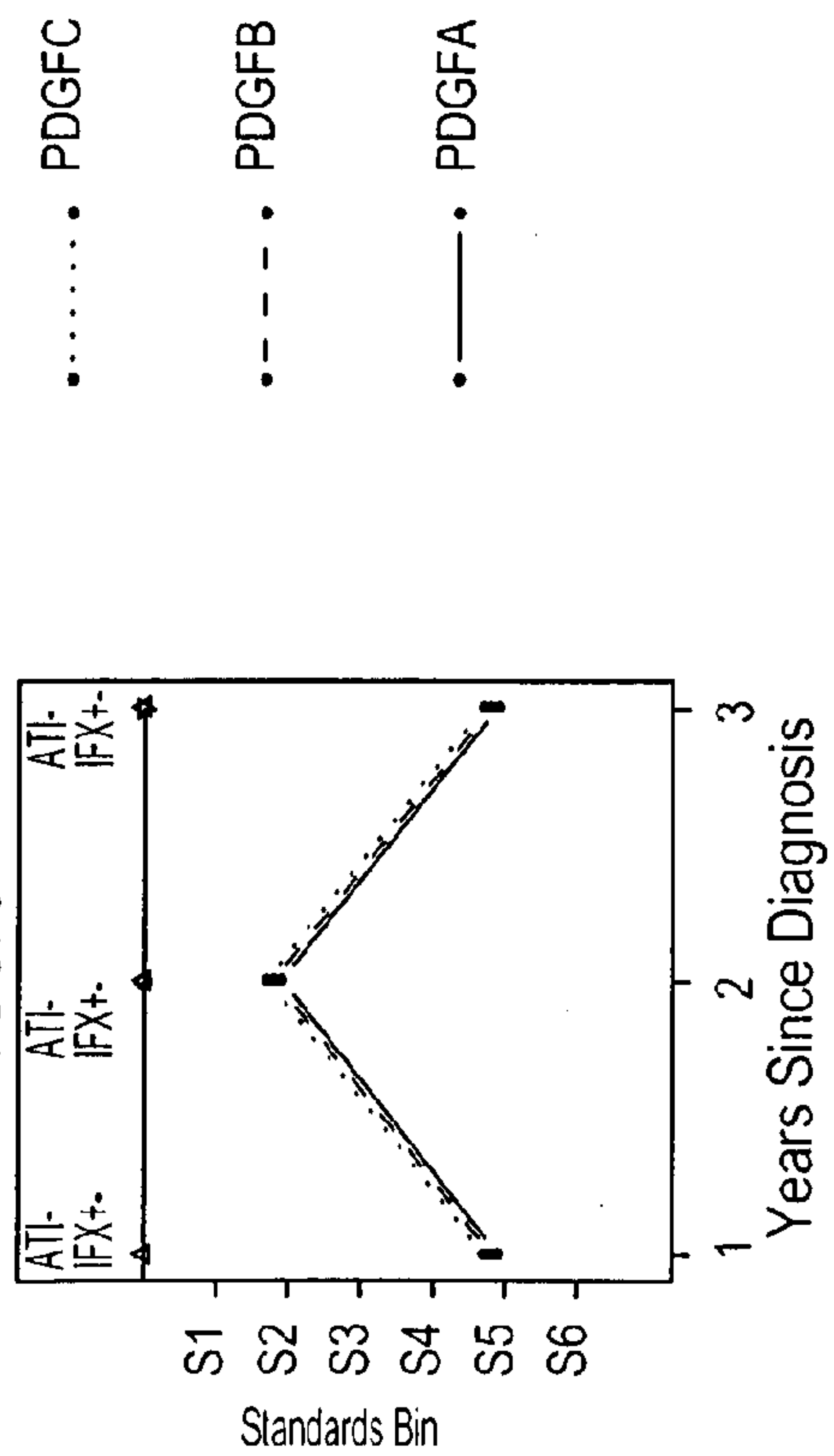


FIG. 24C

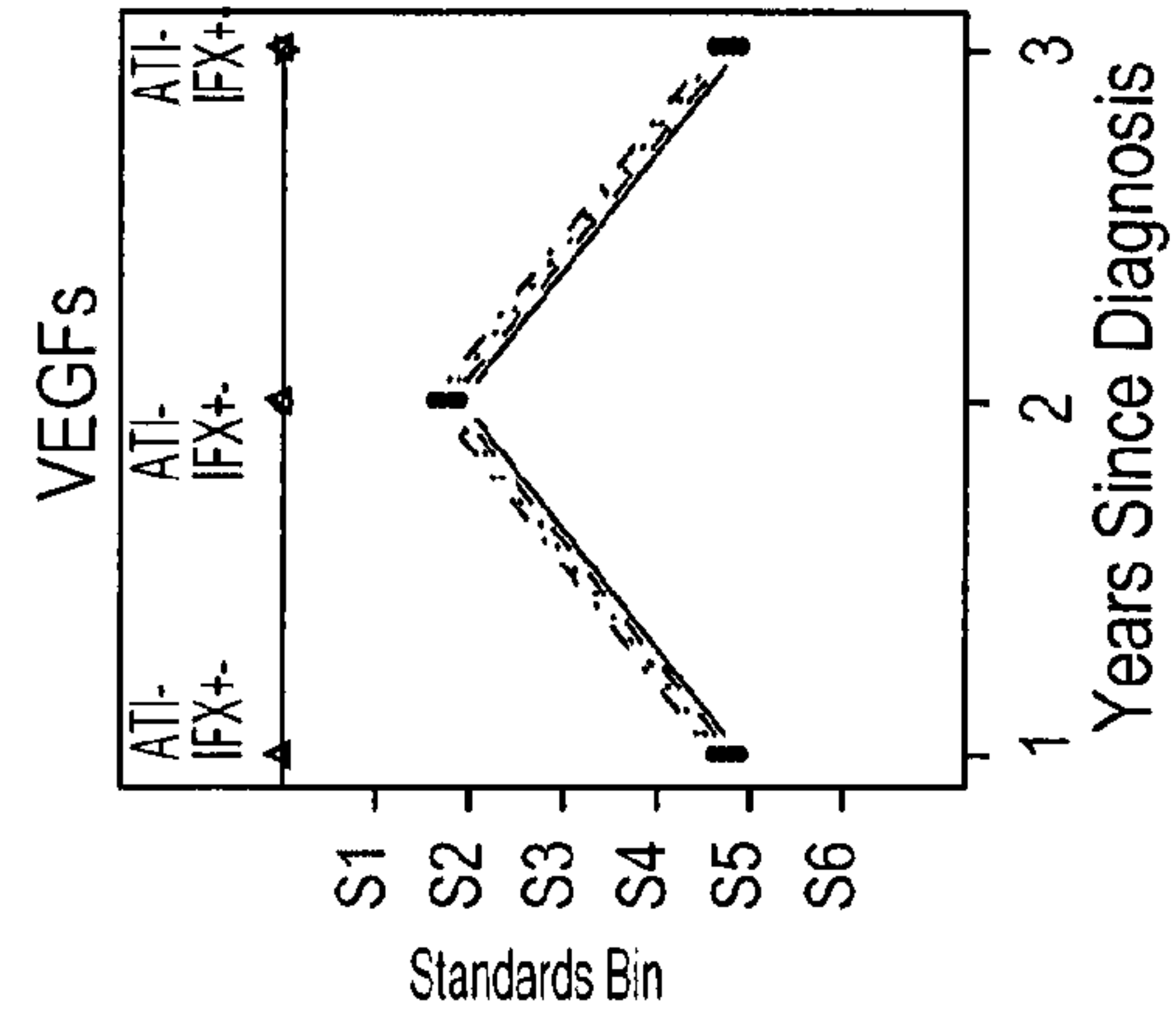
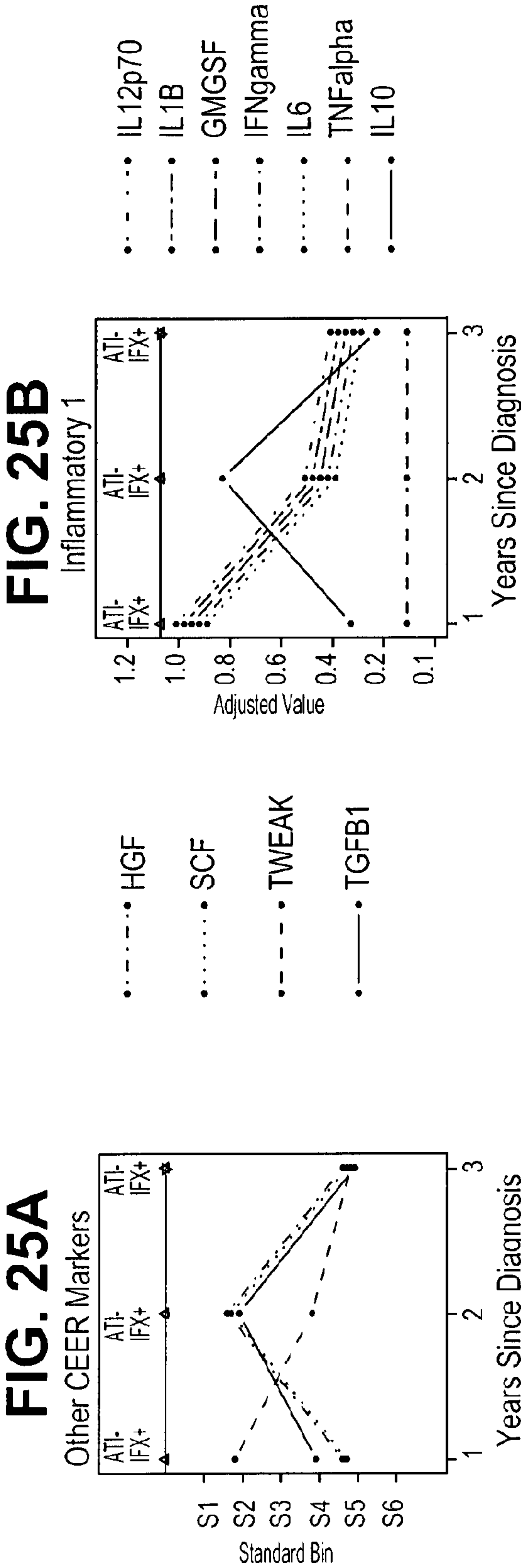
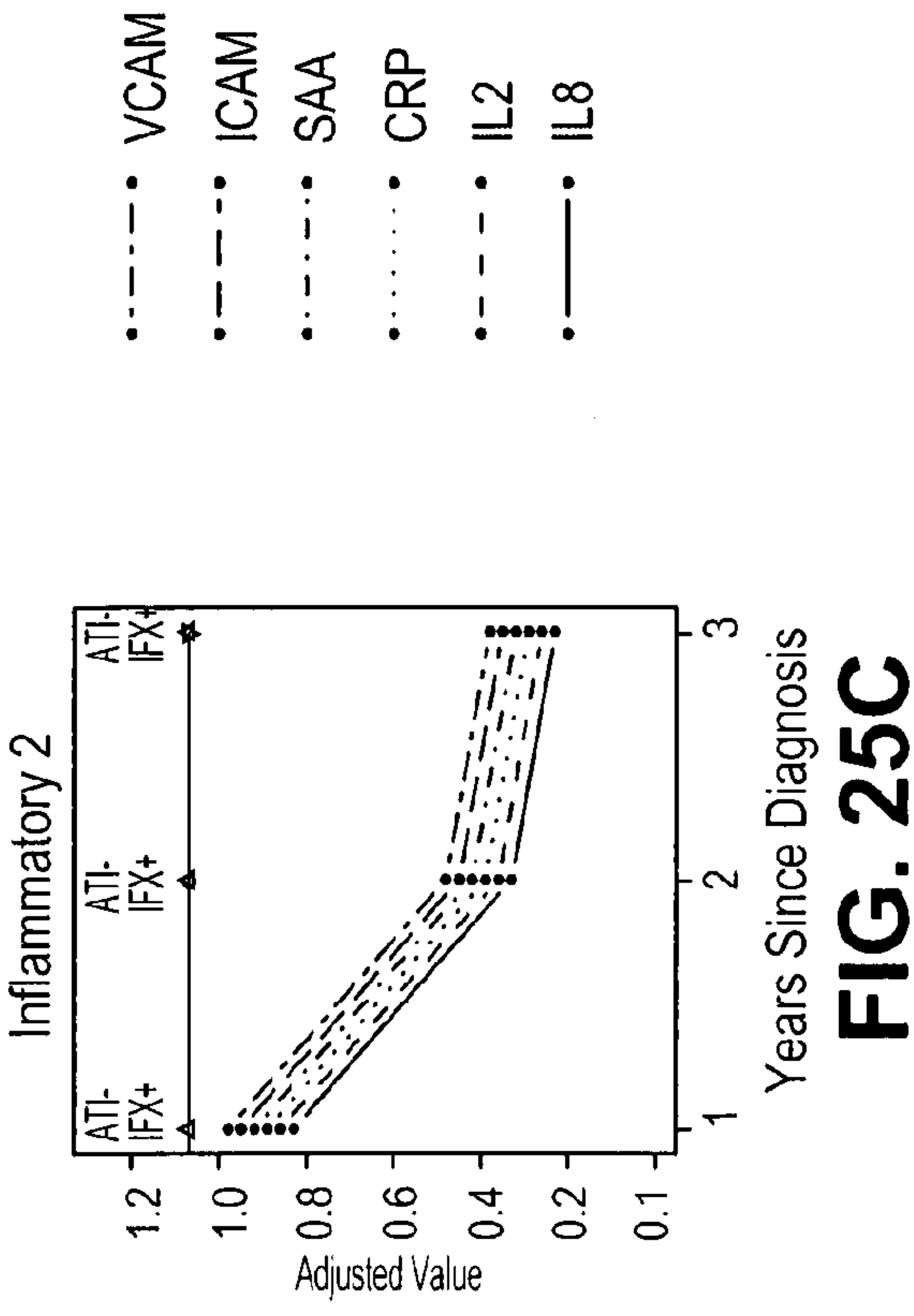


FIG. 24D



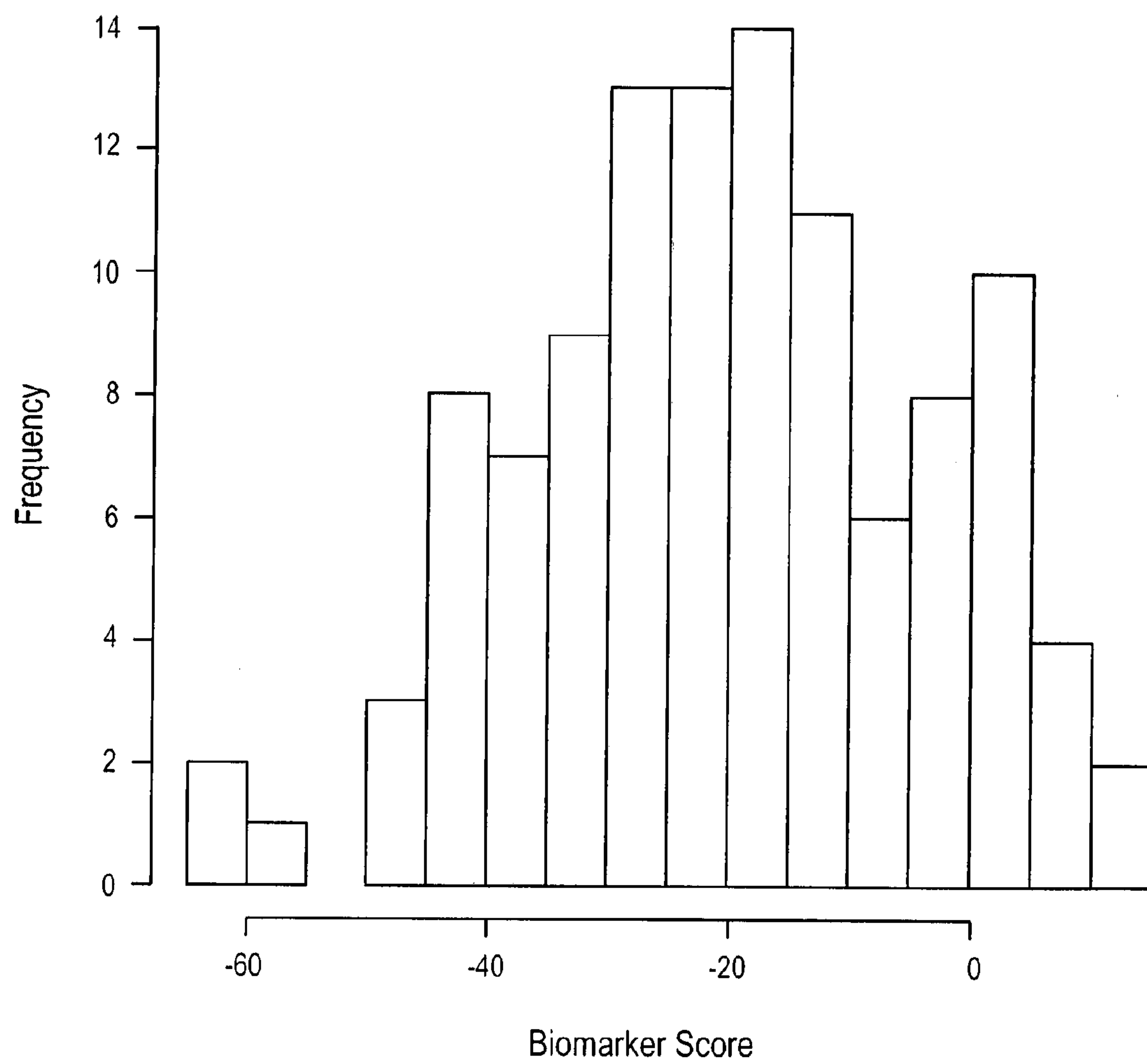
As patient goes from inflammatory phase (year 1) to proliferation phase (year 2), inflammatory markers go down, even though the patient is not fully healed. Repair factors shown here (HGF, SCF) and anti-inflammatory markers (TGFB1, IL10) go up as patient goes from inflammatory phase to proliferation phase. In remodeling phase (year 3), repair factors and anti-inflammatory markers go down.



AREG	EREG	HBEGF	HGF	HRGB	BTC	EGF	TGFA
2	29	2	2	9	2	2	2
FGF1	FGF2	FGF4	FGF7	FGF9	FGF19	SCF	PDGFA
2	8	2	9	2	4	2	12
PDGFB	PDGFC	VEGFA	VEGFB	VEGFC	VEGFD	TGFB1	TWEAK
25	68	17	47	11	7	29	2

FIG. 26

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**FIG. 27**

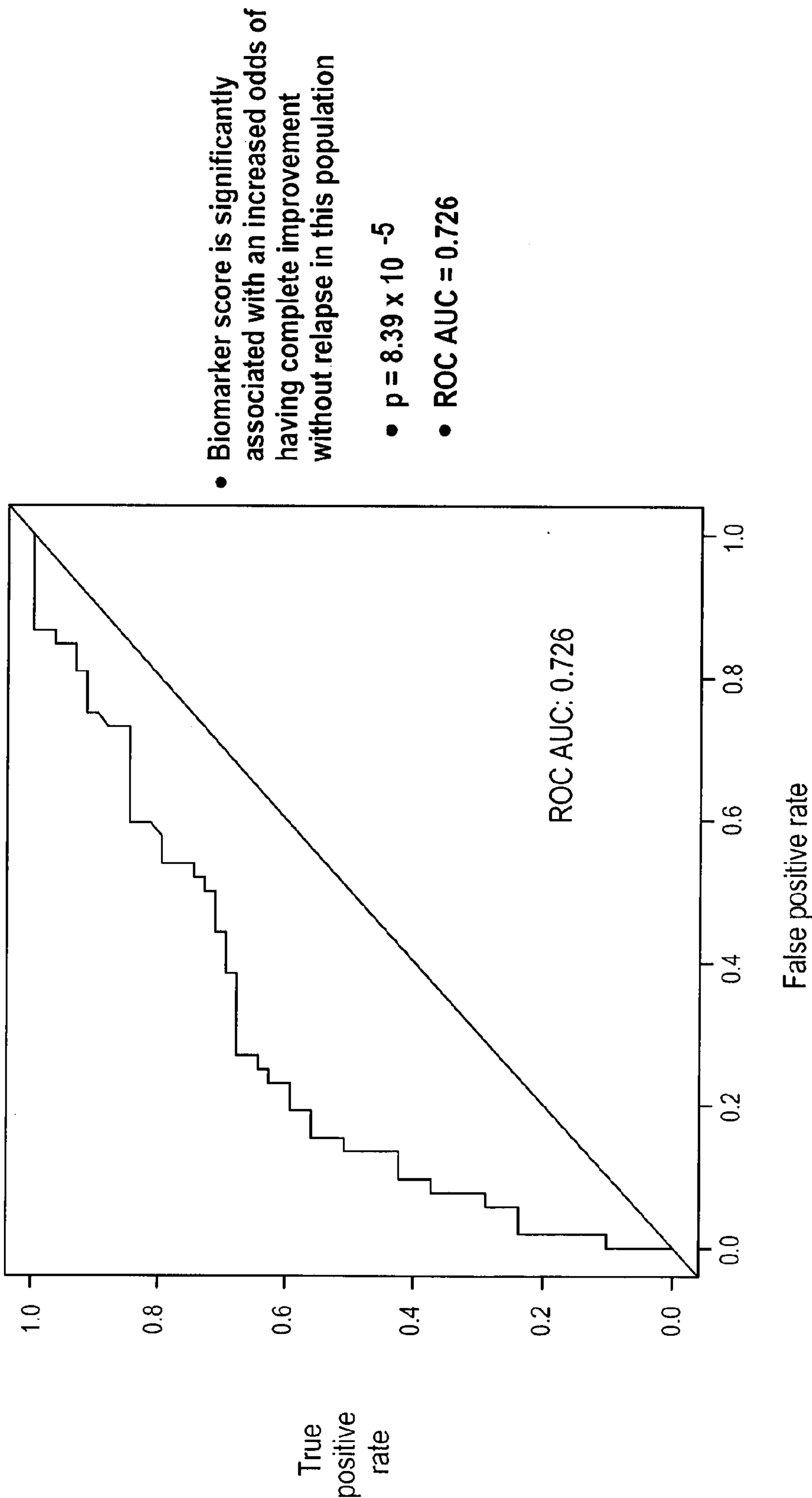
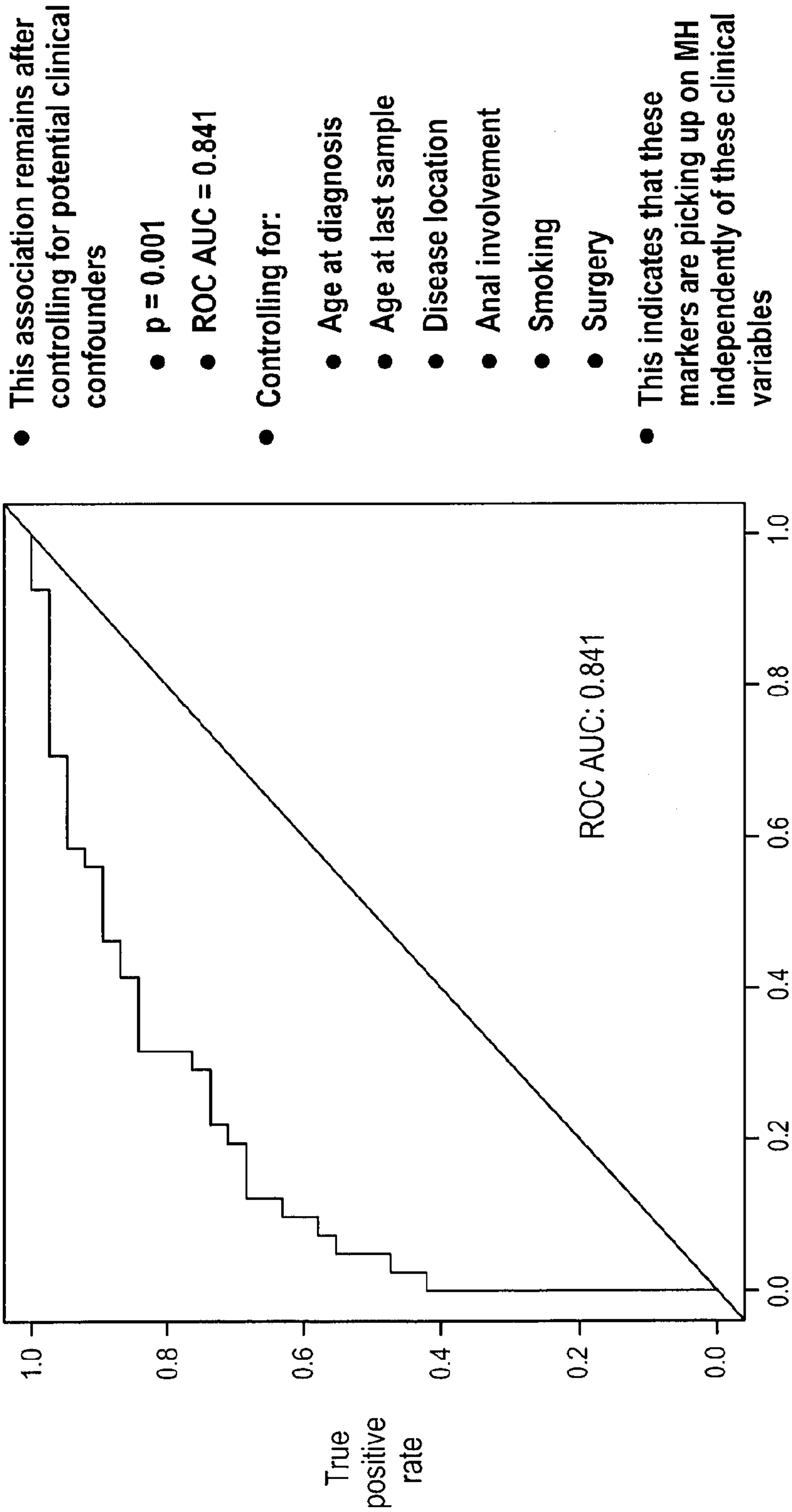


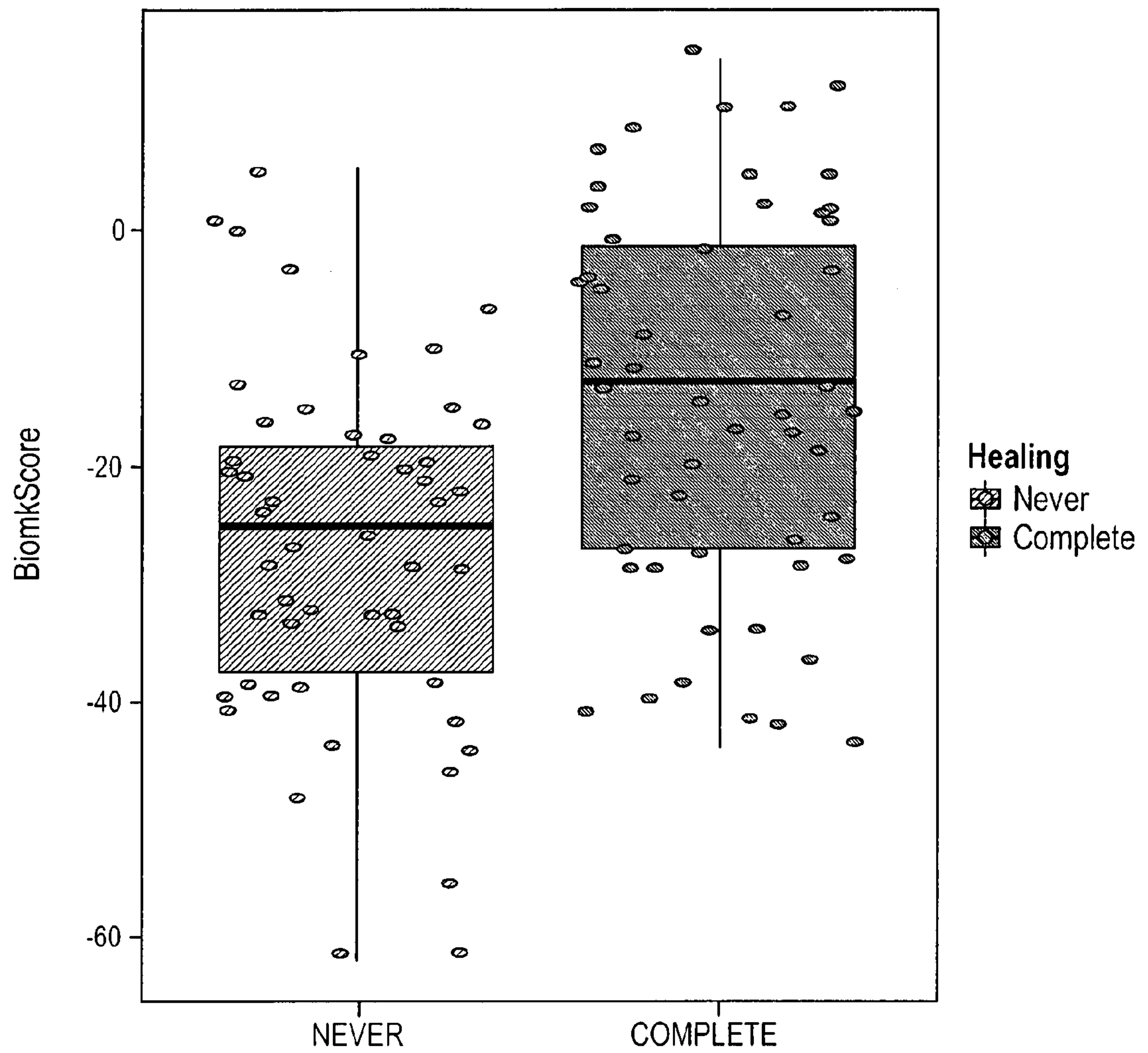
FIG. 28



False positive rate

FIG. 29

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Mucosal Healing Extremes (Complete w/o Relapse vs. Never Healed)

FIG. 30

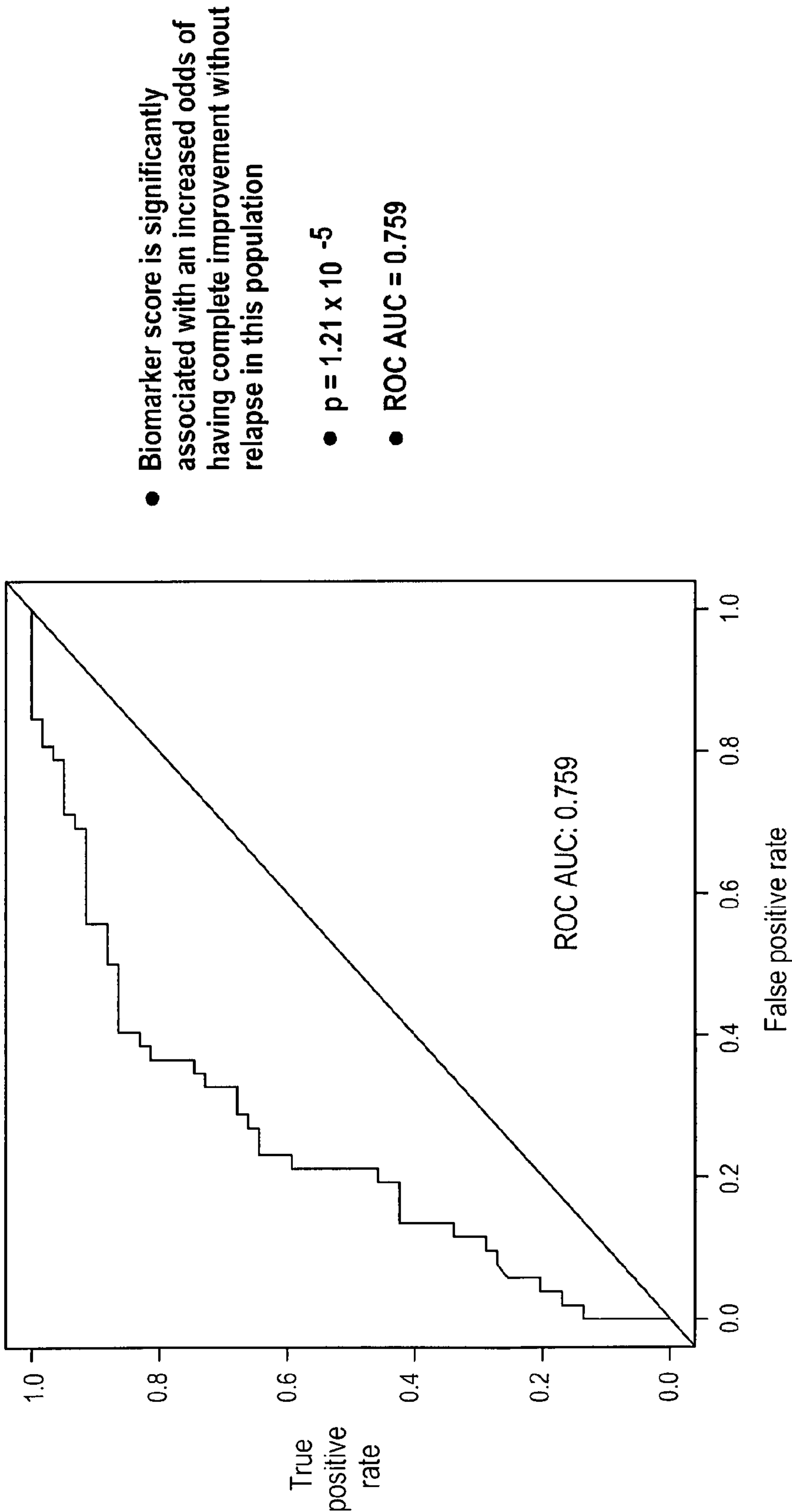


FIG. 31

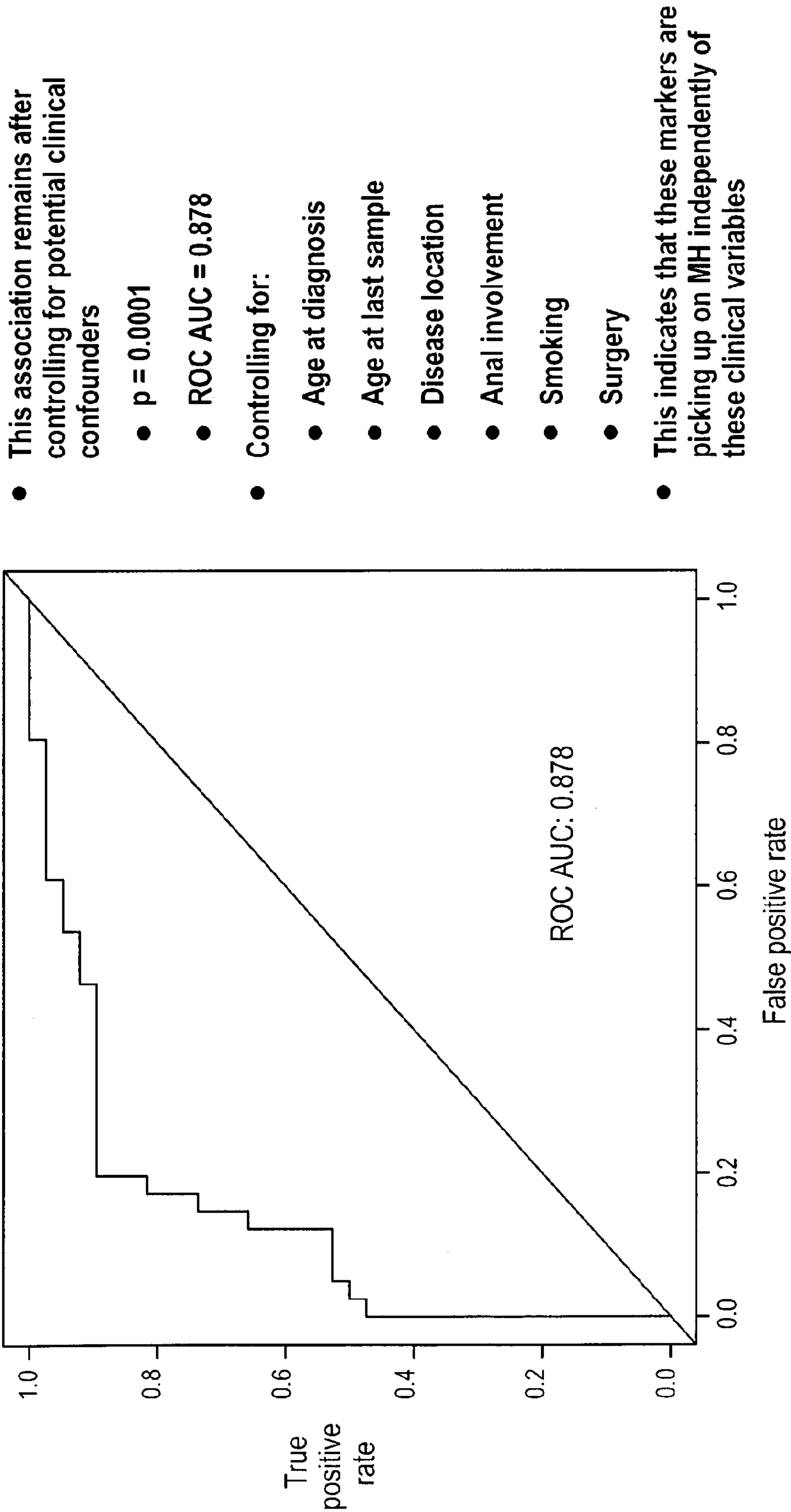
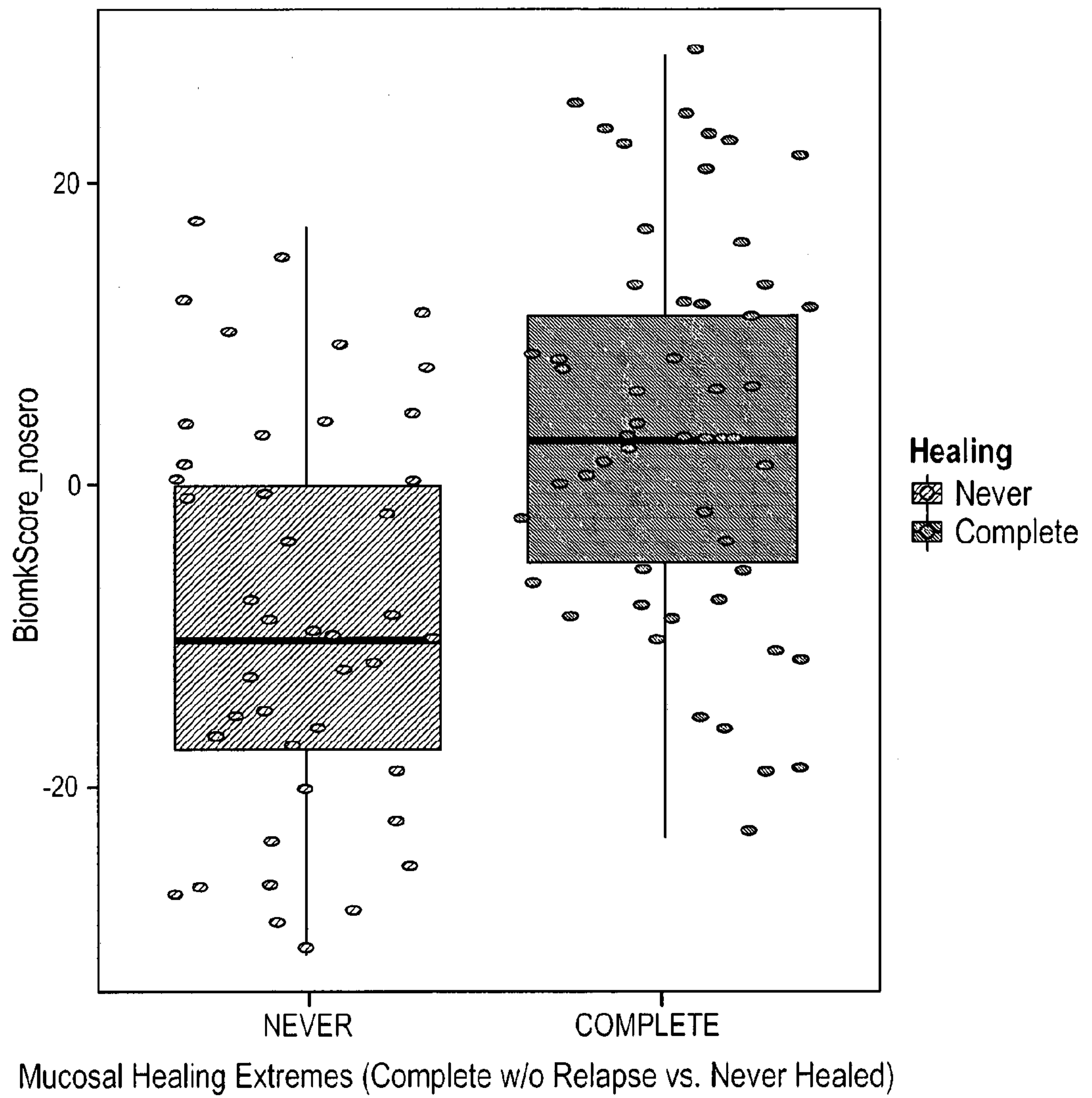
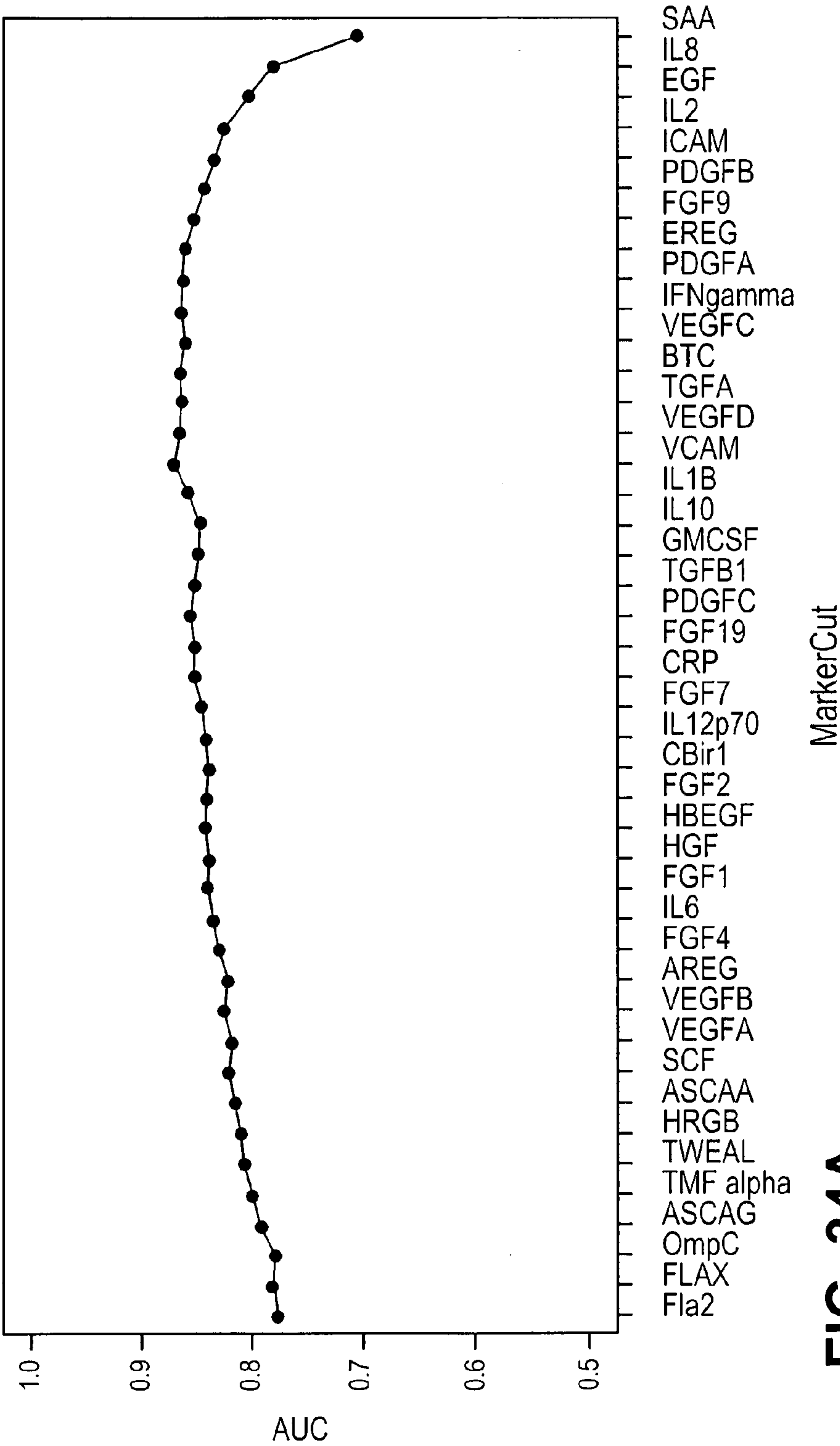


FIG. 31

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**FIG. 33**

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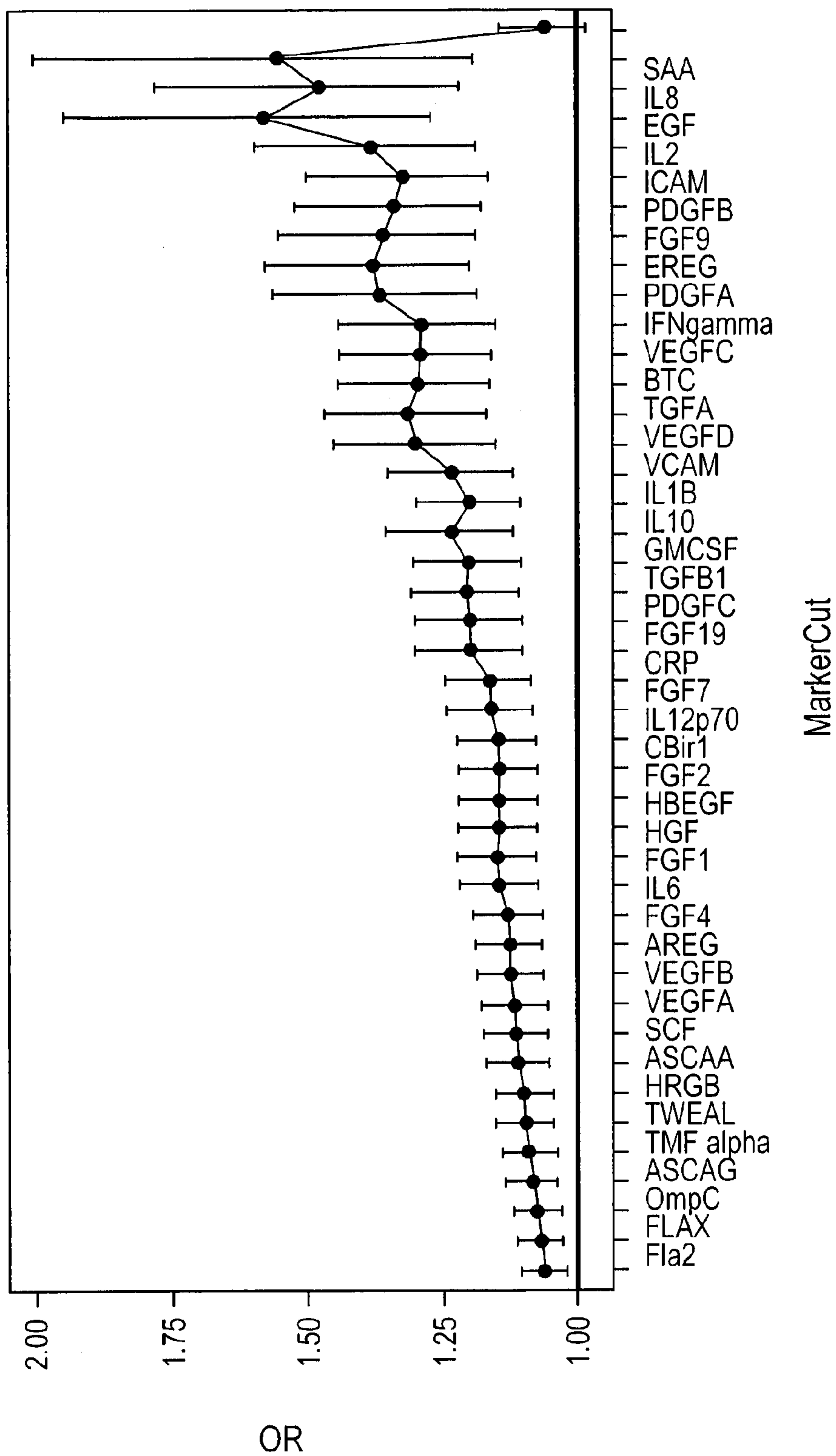


FIG. 34B

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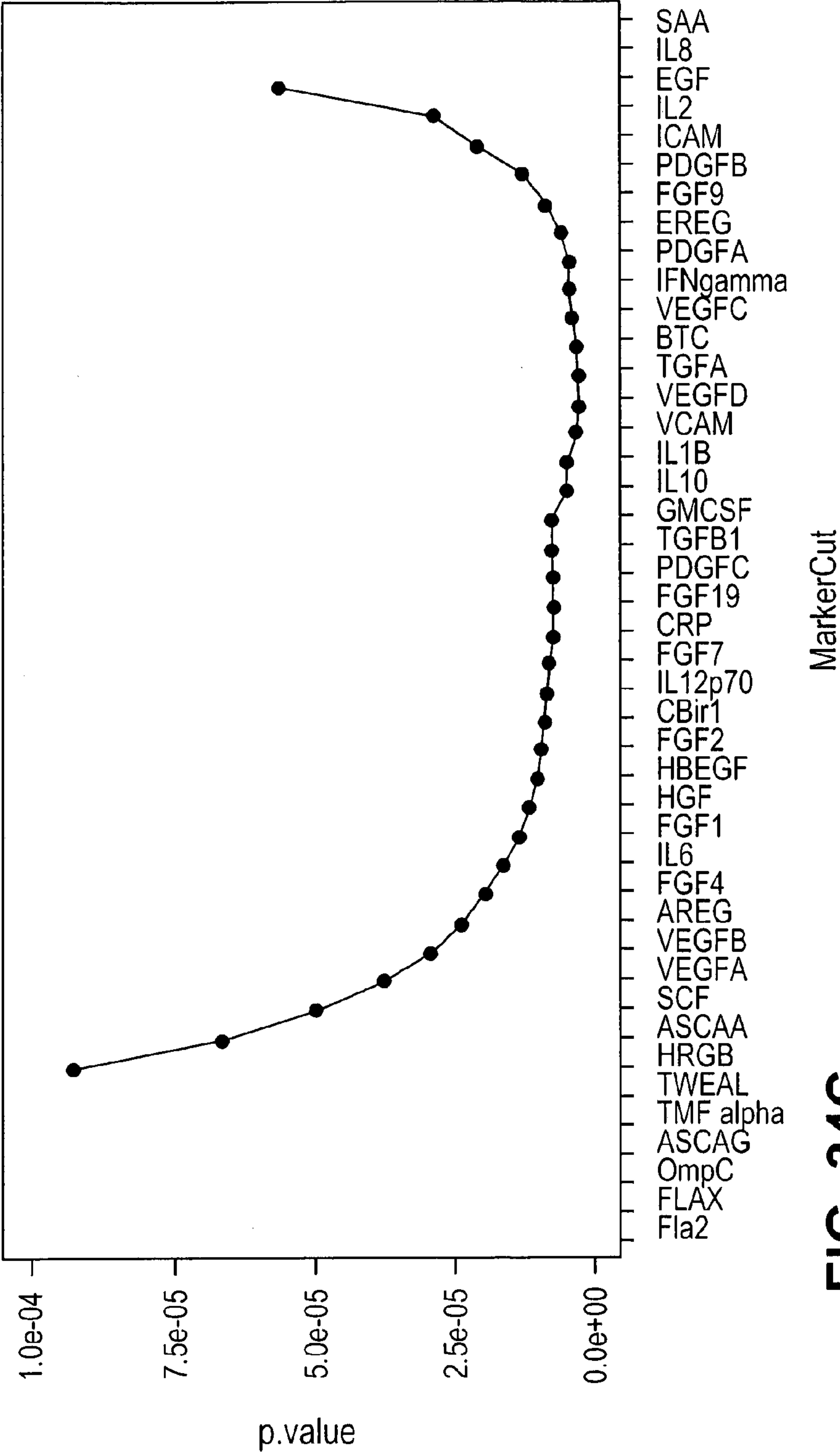


FIG. 34C

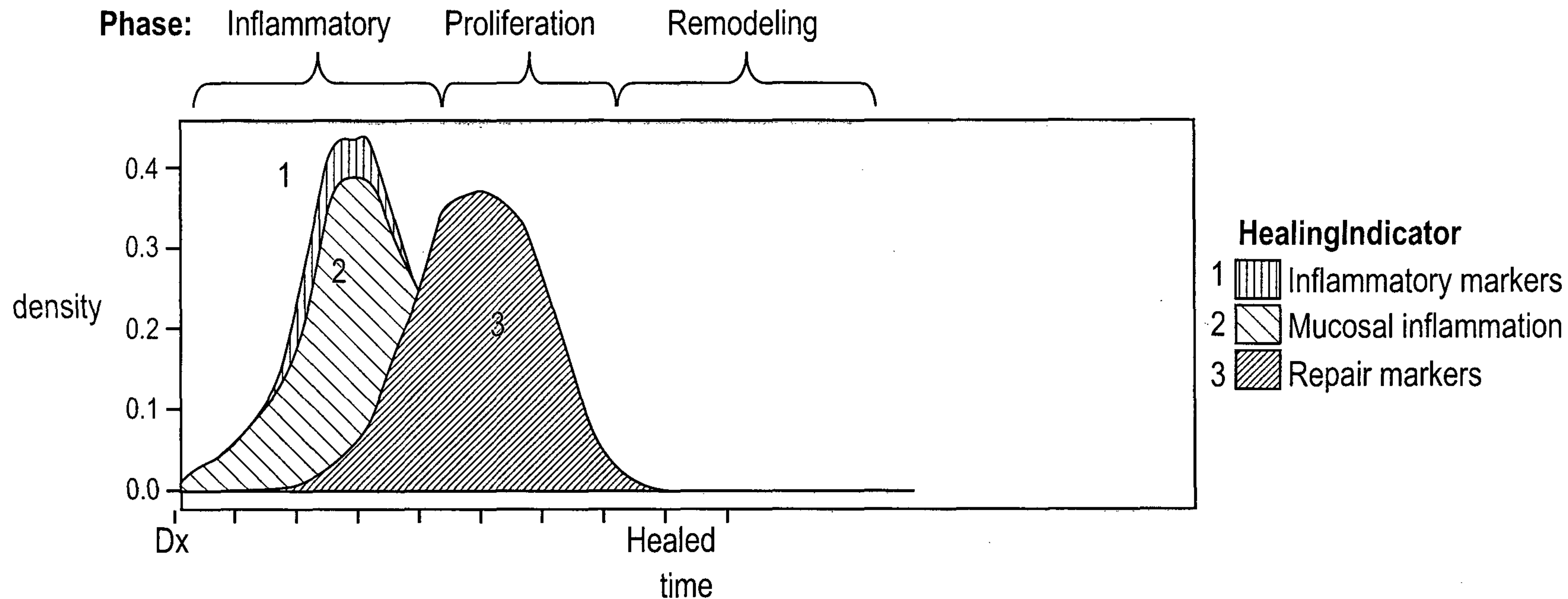


FIG. 1