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[US/US]; 285 Columbus Avenue #308, Boston, MA 02116 (US).

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(74) Agents: RESNICK, David, S. et al.; Nixon Peabody LLP, 100 Summer Street, Boston, MA 02110-2131 (US).

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(71) Applicant (for all designated States except US): THE GENERAL HOSPITAL CORPORATION [US/US]; 55 Fruit Street, Boston, MA 02114 (US).

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(72) Inventors; and

(75) Inventors/Applicants (for US only): VYAS, Jatin, M. [US/US]; 167 Lyman Road, Milton, MA 02186 (US). TAM, Jenny, M. [US/US]; 30 Egmont Street, Apartment 6, Brookline, MA 02446 (US). MANSOUR, Michael, K.

[Continued on next page]

(54) Title: FUNGAL-DERIVED CARBOHYDRATE-CONJUGATED SCAFFOLD

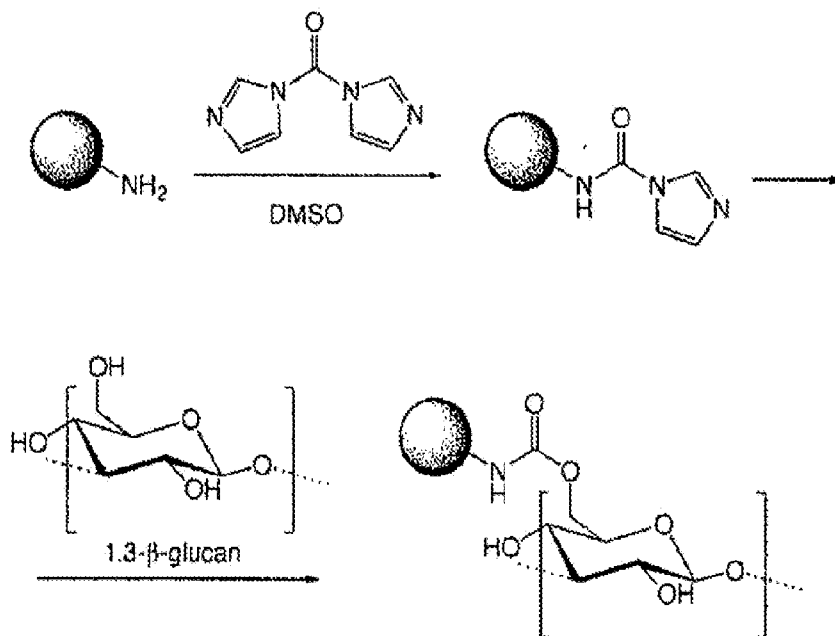


Figure 1

(57) Abstract: The present invention provides for compositions and methods for a purified fungal carbohydrate-linked polymer bead platform, which can serve as an artificial fungus-like particle to measure specific patient immune responses to fungal carbohydrate antigens. A specific embodiment comprises a purified β-1,3-glucan chemically conjugated to a polymer bead.

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According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
G01N 33/548, 33/554, 33/569, C12Q 1/04, C12R 1/645, A61K 36/06, 31/716		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 2008/057501 A2 (WHITEHEAD INSTITUTE et al.) 15.05.2008, paragraphs [0026], [0027], [0038], [0040], [0045]-[0046], [0080]-[0084], [0089], [0096]-[0098],[00179]-[00180], [00187], [00287], [0148] [00301], [00307], [00316]. [00317], claims 1, 3, 7, 52-79, 113, 124, 120	20-30, 33, 35 1-19, 31-32, 34, 36-39
Y	IFAT RUBIN-BEJERANO et al., Phagocytosis by Human Neutrophils is Stimulated by a Unique Fungal Cell Wall Component, Cell Host Microbe, 2007 July 12; 2(1), pp. 55-67	1-19, 31-32, 34, 36-39
Y	ANGELINA S. PALMA et al., Ligands for the β -Glucan Receptor, Dectin-1, Assigned Using "Designer" Microarrays of Oligosaccharide Probes (Neoglycolipids) Generated from Glucan Polysaccharides, THE JOURNAL OF BIOLOGICAL CHEMISTRY, 2006, vol. 281, NO. 9, p. 5771-79, abstract, p.5772	1-19, 31-32, 34, 36-39
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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Name and mailing address of the ISA/ FIPS Russia, 123995, Moscow, G-59, GSP-5, Berezhkovskaya nab., 30-1		Authorized officer E. Redo
Facsimile No. +7 (499) 243-33-37		Telephone No. (495)531-65-15

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KEN-ICHI ISHIBASHI et al., Relationship between the physical properties of Candida albicans cell wall beta-glucan and activation of leukocytes in vitro, International Immunopharmacology, 2002 Jul; 2(8), p.1109-22, abstract	1-19, 31-32, 34, 36-39
Y	LARRY A. SKLAR et al., Flow Cytometric Analysis of Ligand-receptor interactions and molecular assemblies, Annual Review of Biophysics and Biomolecular Structure 2002, vol. 31, p. 97-119, DOI: 10.1146/annurev.biophys.31.082901.134406, abstract	1-19, 31-32, 34, 36-39
Y	JERRY W. PICKERING et al., Evaluation of a (1-3)- β -d-Glucan Assay for Diagnosis of Invasive Fungal Infections, Journal of clinical microbiology, 2005, vol. 43, No. 12, p. 5957-62	1-19, 31-32, 34, 36-39
Y	Dr ALESSANDRO C PASQUALOTTO et al., Diagnosis of Invasive Fungal Infections –Current Limitations of Classical and New Diagnostic Methods, BUSINESS BRIEFING: EUROPEAN ONCOLOGY REVIEW, 2005, p.1-11	1-19, 31-32, 34, 36-39
Y	ROBERTO MANFREDI et al., Fluconazole as Prophylaxis Against Fungal Infection in Patients With Advanced HIV Infection, Arch Intern Med., 1997, vol.157, p.64-69, abstract	1-19, 31-32, 34, 36-39