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(54) Title: COMPOSITIONS AND METHODS FOR TREATING INFLAMMATORY LUNG DISEASE

(57) Abstract: The invention provides a method of modulating a T cell immune response by modulating DR3 function in the T cell, wherein the T cell response causes a symptom of inflammatory lung disease. The invention also provides a method of treating a reactive airway disease in an animal subject by administering to the subject an agent which modulates at least one functional activity of CD30. The invention additionally provides a method for treating an inflammatory lung disease by administering an agent that decreases the activity of DR3 or CD30, whereby IL-13 expression is decreased.

WO 2005/018571 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/27407

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 48/00; C12N 15/85, 15/86; CO7H 21/04; C12N 9/00 US CL : 514/44; 435/325; 536/23.1; 424/130.1 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) U.S. : 514/44; 435/325; 536/23.1; 424/130.1 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) Please See Continuation Sheet		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2003/0092044 A1 (GODDARD et al.) 15 May 2003 (15.5.2003), see entire document	1-6, 8-11, 13, 27 and 28 ----- 22
X --- Y	US 6,534,061 (GODDARD et al.) 18 March 2003 (18.3.2003), see entire document	1-6, 8-11, 13, 27 and 28 ----- 22
Y	HARLIN et al. TCR-Independent CD30 Signaling Selectively Induces IL-13 Production Via a TNF Receptor-Associated Factor/p38 Mitogen-Activated Protein Kinase-Dependent Mechanism. J. Immunology. Septemeber 2002. Vol 169, pages 2451-2460, see entire document.	8-12, 16, 18-23, 34
Y	DEL PRETE et al. CD30-mediated Signaling Promotes the Developement of Human T helper Type 2 like T cells. J. Exp. Med. December 1995, Vol. 182, pages 1655-1661, see entire document	8-12, 16, 18-23, 34
Y	LEONARD et al. Allergen-induced CD30 expression on T cells of atopic asthmatics. Clinical and Exp. Allergy . July 1997, Vol. 27, pages 780-786, see entire document.	8-12, 16, 18-23, 34
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents:		
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	
"P" document published prior to the international filing date but later than the priority date claimed		
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer <div style="text-align: center;"> Ram Shukla </div> Telephone No. (571) 272-0735	

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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.
A	WO 99/43839 (WEINER et al.) 2 September 1999 (2.9.1999), see entire document	1-34

INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

EAST:USPAT, US PUB, EPO, DERWENT

STN: MEDLINE

Search terms: DR3, APO3, WSL1, CD30, IL-13, TRAF2, TL1A, Asthma, airway, antibody, blocking