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(54) Title: COMBINATION THERAPIES OF HMGB AND COMPLEMENT INHIBITORS AGAINST INFLAMMATION

(57) Abstract: Compositions and methods are disclosed for treating a condition characterized by activation of an inflammatory cytokine cascade in a patient. The compositions comprise an HMGB A box and an inhibitor of complement biological activity, and/or an antibody that binds an HMGB polypeptide or biologically active fragment thereof and an inhibitor of complement biological activity, and/or an inhibitor of HMGB receptor binding and an inhibitor of complement biological activity. The methods comprise treating a cell or a patient with sufficient amounts of the composition to inhibit the release of proinflammatory cytokine(s) and/or inhibit the inflammatory cytokine cascade.



WO 2006/012373 A3

INTERNATIONAL SEARCH REPORT

Int'l application No
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A. CLASSIFICATION OF SUBJECT MATTER

A61K38/17 A61K39/395 A61K31/00 A61P29/00

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)

A61K A61P

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 practical, search terms used)

EPO-Internal, WPI Data, PAJ, Sequence Search, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2004/046345 A (CRITICAL THERAPEUTICS, INC; NEWMAN, WALTER; O'KEEFE, THERESA, L) 3 June 2004 (2004-06-03) see abstract, claims 26 and 57, examples 12-13 -----	1-102
Y	WO 02/092004 A (NORTH SHORE-LONG ISLAND JEWISH RESEARCH INSTITUTE; THE GENERAL HOSPITAL) 21 November 2002 (2002-11-21) see abstract, claims and examples 12-14 -----	1-102
Y	WO 02/074301 A (UNIVERSITY OF PITTSBURGH OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION) 26 September 2002 (2002-09-26) cited in the application see abstract, page 4, examples V and VIII ----- -/--	1-102

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search

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02/03/2006

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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.
P,X	WO 2005/039393 A (MEDTRONIC, INC; SHAFER, LISA, L) 6 May 2005 (2005-05-06) see abstract, pages 4 and 7, claims 1,6,7 and 11, examples 1-4 -----	1-102
Y	WO 02/49993 A (NEUROGEN CORPORATION; THURKAUF, ANDREW; ZHANG, XIAOYAN; HE, XIA-SHU; Z) 27 June 2002 (2002-06-27) cited in the application see abstract and claims -----	1-102
Y	US 5 856 297 A (FEARON ET AL) 5 January 1999 (1999-01-05) cited in the application see abstract and col.22-24 -----	1-102
Y	US 5 856 300 A (RITTERSHAUS ET AL) 5 January 1999 (1999-01-05) cited in the application see abstract, table 1 and col.36 -----	1-102
Y	SUMICHIKA H.: "C5a receptor antagonists for the treatment of inflammation." CURRENT OPINION IN INVESTIGATIONAL DRUG, vol. 5, no. 5, May 2004 (2004-05), pages 505-510, XP009061611 see abstract, table 1 and pages 508-509 -----	1-102
Y	MORRIS P.: "ARDS drug development" EXPERIMENTAL LUNG RESEARCH, vol. 30, no. Suppl.1, January 2004 (2004-01), pages 48-50, XP009061699 see the whole document -----	1-102

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2005/025799

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☒ on paper
 - ☒ in electronic form
 - c. time of filing/furnishing
 - ☐ contained in the international application as filed
 - ☐ filed together with the international application in electronic form
 - ☒ furnished subsequently to this Authority for the purpose of search
2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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