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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MODULATION OF PERICYTE PROLIFERATION USING BPI PROTEIN PRODUCTS OR BPI INHIBITORS

(57) Abstract: Methods and materials for modulating pericyte and epithelial cellproliferation relating to BPI protein products or inhibitors thereof are provided.



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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/46609A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K38/17 A61K38/08

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)

IPC 7 A61K

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)

WPI Data, EPO-Internal, PAJ, BIOSIS, EMBASE, PASCAL, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	<p>WO 94 20128 A (XOMA CORP) 15 September 1994 (1994-09-15)</p> <p>page 3, line 4 - line 21 page 7, line 24 - page 8, line 13 page 10, line 7 - line 9 page 20, line 13 - line 19 claims 2,4-7,10,14,18,20,21,24,28,32-34,42; figures 12,13; example 12 --- -/--</p>	<p>1-3,10, 20,21 12-16, 33,34,38</p>

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

° Special categories of cited documents :

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

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

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15.10.02

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/46609

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KHOURY J ET AL: "Heparin-like molecules inhibit pulmonary vascular pericyte proliferation in vitro." AMERICAN JOURNAL OF PHYSIOLOGY. LUNG CELLULAR AND MOLECULAR PHYSIOLOGY. UNITED STATES AUG 2000, vol. 279, no. 2, August 2000 (2000-08), pages L252-L261, XP001093815 ISSN: 1040-0605 cited in the application	12-14,38
A	abstract page L252, left-hand column -right-hand column, paragraph 2 page L253, left-hand column, paragraph 1 page L257, right-hand column page L260, last paragraph figures 1-3	15,16
P,X	--- WO 01 00655 A (XOMA TECHNOLOGY LTD ;LIN JONG JYE (US); LITTLE ROGER G (US); GIKON) 4 January 2001 (2001-01-04) page 1, line 8 - line 16 page 5, line 23 -page 6, line 9 page 14, line 7 - line 11 page 18, line 1 -page 19, line 4 page 25, line 3 - line 19 claims 1-3,5-7,10,14,17-19,21-23,26-30,33,34; example 9; table I	1,2,5,7, 20-22, 33-35
P,X	--- RAUNIYAR, RK ET AL.: "Compounds derived from human bactericidal/permeability increasing protein suppress VEGF-induced retinal endothelial cell growth and hypoxia-induced retinal neovascularization while enhancing retinal pericyte growth." INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE (IOVS), vol. 42, no. 4, 15 March 2001 (2001-03-15), page S243 XP001093812 USA the whole document	1,2,5, 20,21, 33-35
A	--- WO 00 43028 A (SCANNON PATRICK J ;XOMA TECHNOLOGY LTD (US); GIROIR BRETT P (US);) 27 July 2000 (2000-07-27) page 1, line 8 -page 2, line 8 page 3, line 8 - line 12 page 20, line 13 - line 22 claims 1-5,11-14 --- -/--	1-16, 20-22, 33-35,38

INTERNATIONAL SEARCH REPORT

International Application No

PCT/ES 01/46609

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 578 568 A (MESZAROS ET AL) 26 November 1996 (1996-11-26) column 1, line 17 - line 23 column 2, line 30 - line 36 claims 1-8; example 1 -----	1-16, 20-22, 33-35, 38

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/46609**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-9,12-16,23-26,33-35,38; 10,11,20-22, 32 (partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 1-16,20-22,33-35,38 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Although claims 23-26,32 could be directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-9,12-16,23-26,33-35,38; 10,11,20-22,
32 (partially)

Use of agents (BPI protein products / inhibitors) that modulate pericyte proliferation in several diseases and screening assays to identify them.

Technical problem: Provide agents that modulate pericyte proliferation.

2. Claims: 17-19,27-31; 20-22,32 (partially)

Use of agents (BPI protein products / inhibitors) that modulate epithelial proliferation in several diseases and screening assays to identify them.

Technical problem: Provide agents that modulate epithelial proliferation.

3. Claims: 36; 10,20-22 (partially)

Use of agents (BPI protein products) that modulate fibroblast proliferation in wound healing.

Technical problem: Provide agents that modulate fibroblast cell proliferation.

4. Claims: 37; 11,20-22 (partially)

Use of agents (BPI protein products) that modulate osteoblast or chondroblast cell proliferation in bone degenerative disorder.

Technical problem: Provide agents that modulate osteoblast or chondroblast cell proliferation.

INTERNATIONAL SEARCH REPORT

nation on patent family members

International Application No

PCT/US 01/46609

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