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Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
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(88) Date of publication of the international search report:

3 January 2013

(54) Title: ANTI-MICROBIAL PEPTIDES AND METHODS OF USE THEREOF

(57) Abstract: The present disclosure provides antimicrobial peptides, and compositions comprising same. The present disclosure further provides methods of inhibiting microbial growth.



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A. CLASSIFICATION OF SUBJECT MATTER

C07K 7/06(2006.01)i, C07K 7/08(2006.01)i, C07K 14/47(2006.01)i, A61K 38/08(2006.01)i, A61K 38/10(2006.01)i, A61K 38/17(2006.01)i, A61P 31/04(2006.01)i, A61M 37/00(2006.01)i

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)

C07K 7/06; A61P 17/02; A61K 37/02; A01N 25/08; C12N 15/12; A61K 38/00; C07K 2/00; C07K 7/10; A01N 37/44; A61K 38/16; A61K 9/28

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: antimicrobial, peptide, disinfectant, keratin

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2008-022444 A1 (THE UNIVERSITY OF BRITISH COLUMBIA) 28 February 2008 See the whole document.	1-12, 14-16, 20, 21
A	US 2010-0159006 A1 (SCHMIDTCHEN, A. et al.) 24 June 2010 See the whole document.	1-12, 14-16, 20, 21
A	US 2008-0274165 A1 (VAN DYKE, M. E.) 06 November 2008 See the whole document.	1-12, 14-16, 20, 21
A	US 05202420 A (ZASLOFF, M. A. et al.) 13 April 1993 See the whole document.	1-12, 14-16, 20, 21
A	US 6482799 B1 (TUSE, D. et al.) 19 November 2002 See the whole document.	1-12, 14-16, 20, 21
A	AUGUSTIN, D. K. et al., "Role of Defensins in Corneal Epithelial Barrier Function against Pseudomonas aeruginosa Traversal" INFECTION AND IMMUNITY, Vol. 79, No. 2, pages 595-605, 29 November 2010 See the whole document.	1-12, 14-16, 20, 21



Further documents are listed in the continuation of Box C.



See patent family 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 application or patent 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 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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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/033759

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ANGUS, A. A. et al., "The ADP-Ribosylation Domain of Pseudomonas aeruginosa ExoS Is Required for Membrane Bleb Niche Formation and Bacterial Survival within Epithelial Cells" INFECTION AND IMMUNITY, Vol. 78, No. 11, pages 4500-4510, 23 August 2010 See the whole document.	1-12,14-16,20,21
PA	US 2012-0021033 A1 (KAPLAN, J. B.) 26 January 2012 See the whole document.	1-12,14-16,20,21

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/033759**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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.: 13, 17- 19
because they relate to subject matter not required to be searched by this Authority, namely:
Said claims pertain to methods for treatment of the human body, thus relate to a subject-matter which International Searching Authority is not required to search under PCT Art. 17(2)(a)(i) and Rule 39.1(iv).
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 No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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

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.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/033759

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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