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Declarations under Rule 4.17:
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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))*

(88) Date of publication of the international search report:
06 February 2020 (06.02.2020)

(54) Title: CYCLOTIDE-BASED POLYPEPTIDES FOR THERAPEUTIC TARGETING OF BAFF RECEPTORS IN SLE

(57) Abstract: This disclosure provides a high-throughput method for identifying and isolating a candidate BAFT receptor antagonist and methods for their use in vitro and in vivo.

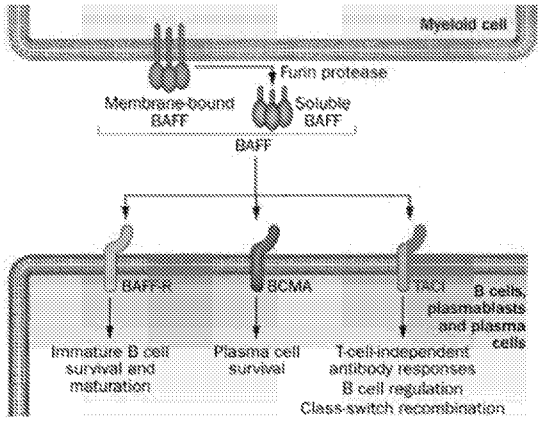


FIG. 1

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 19/39605

A. CLASSIFICATION OF SUBJECT MATTER

IPC - A61K 38/00, A61K 38/17, A61K 39/395, C07K 16/24, A61K 39/00 (2019.01)

CPC - C07K 16/2878, C07K 14/7151, C07K 14/70575, A61K 2039/505, C07K 2319/00, C07K 16/241

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)
See Search History document

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PELLETIER et al., Comparison of Soluble Decoy IgG Fusion Proteins of BAFF-R and BCMA as Antagonists for BAFF. J. Biol. Chem. 29 August 2003, Vol. 278, No. 35, pp. 33127-33133. Abstract; p33127, col 2, para 2-3; p33128, col 1, para 5; p33128, col 2, para 6; p33131, col 1, para 2	1-8
Y	US 2005/0070689 A1 (DIXIT et al.,) 31 March 2005 (31.03.2005) Abstract; Claim 57; para [0033]; para [0059]; para [0090]; para [0151-0152]; para [0154]; para [0159]; para [0181]; para [0257]; para [0303]; para [0312]; para [0331];	1-8
Y	US 2017/0239327 A9 (MEDIZINISCHE UNIVERSITAT WIEN et al.,) 24 August 2017 (24.08.2017) Abstract; Claim 49; para [0004]; para [0007]; para [0012]; para [0017]	1-8

☐ 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
"D" document cited by the applicant in the international application
"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 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	Date of mailing of the international search report
24 November 2019	07 JAN 2020
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. 571-273-8300	Authorized officer Lee Young Telephone No. PCT Helpdesk: 571-272-4300

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 19/39605

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.:
because they relate to subject matter not required to be searched by this Authority, namely:

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.: 9-28
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 additional fees, this Authority did not invite payment of additional fees.

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.