

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference AA2936 PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2019/050180	International filing date (<i>day/month/year</i>) 4 January 2019 (04-01-2019)	(Earliest) Priority Date (<i>day/month/year</i>) 5 January 2018 (05-01-2018)
Applicant AC IMMUNE SA		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6**bis**(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- ☐ the text is approved as submitted by the applicant
☒ the text has been established by this Authority to read as follows:

1,3,4,5-TETRAHYDRO-2H-PYRIDO[4,3-B]INDOLE DERIVATIVES FOR THE TREATMENT, ALLEVIATION OR PREVENTION OF DISORDERS ASSOCIATED WITH TAU AGGREGATES LIKE ALZHEIMER'S DISEASE

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant
☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____
☐ as suggested by the applicant
☐ as selected by this Authority, because the applicant failed to suggest a figure
☐ as selected by this Authority, because this figure better characterizes the invention
b. ☒ none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2019/050180

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D471/04 A61K31/437 A61P25/28
ADD.

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)

C07D

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)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2017/009454 A1 (AC IMMUNE SA [CH]; PIRAMAL IMAGING SA [CH]) 19 January 2017 (2017-01-19) claim 1	1-36
A	----- WO 2011/128455 A1 (AC IMMUNE SA [CH]; KROTH HEIKO [CH]; HAMEL COTINICA [CH]; BENDERITTER) 20 October 2011 (2011-10-20) claim 25	1-36
A	----- WO 2010/080253 A1 (MERCK PATENT GMBH [DE]; JONES CHRISTOPHER CHARLES VICTOR [US]; HUCK BA) 15 July 2010 (2010-07-15) claim 1	1-36
	----- -/-	



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 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

14 February 2019

Date of mailing of the international search report

21/02/2019

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2019/050180

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 2011/084439 A1 (SANOFI SA [FR]; GROSS ALEXANDRE [US]; LI RONGHUA [US]; MAJID TAHIR NAD) 14 July 2011 (2011-07-14) claim 1 -----	1-36
A	EP 3 118 202 A1 (AC IMMUNE SA [CH]; PIRAMAL IMAGING SA [CH]) 18 January 2017 (2017-01-18) claim 1 -----	1-36

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2019/050180

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2017009454	A1	19-01-2017	EP 3322707 A1 23-05-2018 US 2018264146 A1 20-09-2018 WO 2017009454 A1 19-01-2017
WO 2011128455	A1	20-10-2011	AU 2011239966 A1 25-10-2012 BR 112012026249 A2 29-11-2016 CA 2794808 A1 20-10-2011 CL 2012002896 A1 09-08-2013 CN 102939282 A 20-02-2013 CO 6910184 A2 31-03-2014 EP 2558446 A1 20-02-2013 IL 222268 A 30-11-2015 JP 5911470 B2 27-04-2016 JP 2013525297 A 20-06-2013 KR 20130098154 A 04-09-2013 MX 337548 B 10-03-2016 NZ 602777 A 25-07-2014 RU 2012148713 A 27-05-2014 SG 184832 A1 29-11-2012 US 2011280808 A1 17-11-2011 US 2016158242 A1 09-06-2016 WO 2011128455 A1 20-10-2011
WO 2010080253	A1	15-07-2010	AU 2009336040 A1 30-06-2011 CA 2745085 A1 15-07-2010 EP 2367822 A1 28-09-2011 ES 2603208 T3 24-02-2017 IL 213589 A 29-02-2016 JP 6109880 B2 05-04-2017 JP 2012512871 A 07-06-2012 JP 2015187155 A 29-10-2015 US 2012022060 A1 26-01-2012 WO 2010080253 A1 15-07-2010
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