

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 381493-703	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2019/034701	International filing date (<i>day/month/year</i>) 30 May 2019 (30-05-2019)	(Earliest) Priority Date (<i>day/month/year</i>) 30 May 2018 (30-05-2018)
Applicant ABBVIE STEMCENTRX LLC		

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 7 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:

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. 1

☒

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

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

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of a sequence listing:
 - a. ☒ forming part of the international application as filed:
 - ☒ in the form of an Annex C/ST.25 text file.
 - ☐ on paper or in the form of an image file.
 - b. ☐ furnished together with the international application under PCT Rule 13~~ter~~.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
 - ☐ in the form of an Annex C/ST.25 text file (Rule 13~~ter~~.1(a)).
 - ☐ on paper or in the form of an image file (Rule 13~~ter~~.1(b) and Administrative Instructions, Section 713).
2. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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A. CLASSIFICATION OF SUBJECT MATTER
INV. C07K16/28 A61K47/68
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)
A61K C07K

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, WPI Data, BIOSIS, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2015/031698 A1 (STEM CENTRX INC [US]) 5 March 2015 (2015-03-05) cited in the application	1-3,5-7
A	abstract; figures 1, 3, 6, 9; examples 6, 7; tables 4,10, 11; sequences SEQ ID NOs: 170 - 199, 513, 514 page 51 page 84	8-20
X	WO 2013/126810 A1 (STEM CENTRX INC [US]) 29 August 2013 (2013-08-29)	1-3,5-7
A	abstract; claims 1-17; figures 12-18; examples 14-19 page 63 - page 78, line 9 page 73, paragraph 2nd - page 75, paragraph 2nd	9-20
	----- -/-	



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

13 August 2019

Date of mailing of the international search report

21/08/2019

Name and mailing address of the ISA/

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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.
X	WO 2016/172273 A1 (STEM CENTRX INC [US]) 27 October 2016 (2016-10-27)	1-3,5-7
A	abstract; figures 1, 7; examples 3, 4, 9-12; table 8 -----	4,8-20
X	WO 2017/112803 A1 (ABBVIE STEMCENTRX LLC [US]) 29 June 2017 (2017-06-29)	2,3
A	abstract; claims 8-15, 17-24, 28, 18, 29, 35, 36 page 63, line 23 - page 64, line 7 -----	8-20
A	WO 03/092623 A2 (WYETH CORP [US]; KUNZ ARTHUR [US] ET AL.) 13 November 2003 (2003-11-13)	1-20
	abstract; claims 71, 72, 107, 108, 161, 162, 175, 180, 193, 194; figure 17; examples 3-6; tables 2-6 -----	
A	WO 2005/089808 A2 (WYETH CORP [US]; KUNZ ARTHUR [US] ET AL.) 29 September 2005 (2005-09-29)	20
	abstract; figures 2-6, 9, 13-15, 17, 22, 23; examples 2-7; tables 2-7, 9-16 -----	
A	JAIN NARESHKUMAR ET AL: "Current ADC Linker Chemistry", PHARMACEUTICAL RESEARCH, SPRINGER NEW YORK LLC, US, vol. 32, no. 11, 11 March 2015 (2015-03-11), pages 3526-3540, XP035553874, ISSN: 0724-8741, DOI: 10.1007/S11095-015-1657-7 [retrieved on 2015-03-11] abstract; figures 1-10, 14; tables I-IV -----	20

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Information on patent family members

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