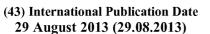
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau







(10) International Publication Number WO 2013/124701 A3

(51) International Patent Classification: C07K 5/083 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01) A61K 31/5517 (2006.01)

(21) International Application Number:

PCT/IB2012/000297

(22) International Filing Date:

(25) Filing Language:

English

(26) Publication Language:

English

- (71) Applicants (for all designated States except US): UNI-VERSITA' DEGLI STUDI DI MILANO [IT/IT]; Via Perdono, Festa del I-20122 Milano FONDAZIONE IRCCS ISTITUTO NAZIONALE DEI TUMORI [IT/IT]; Via G. Venezian, 1, I-20133 Milan (IT). CISI SCRL [IT/IT]; Via G. Fantoli, 16/15, I-20138 Milan (IT). FONDAZIONE CARIPLO [IT/IT]; Via Manin, 23, I-20121 Milan (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SENECI, Pierfausto [IT/IT]; Piazza Luigi Einaudi,3, I-25015 Desenzano del Garda (BS) (IT). BELVISI, Laura [IT/IT]; Via Confalonieri, 76, I-20852 Villasanta (MB) (IT). COSSU, Federica [IT/IT]; Viale Umbria, 60, I-20135 Milano (MI) (IT). DELIA, Domenico [IT/IT]; Via Garofalo, 4, I-20133 Milano (MI) (IT). DRAGO, Carmelo [IT/IT]; Via Clitumno, 15, I-20131 Milano (MI) (IT). LECIS, Daniele [IT/IT]; Via Ferrari, 4/A, I-20020 Arese (MI) (IT). MAIORANA, Stefano [IT/IT]; Via A. Deffenu, 7, I-20133 Milano (MI) (IT). MANZONI, Leonardo, Pierpaolo [IT/IT]; Via Pietro da Lissone, 57, I-20851 Lissone (MB) (IT). MAS-TRANGELO, Eloise [IT/IT]; Via Frisi, 3, I-20133 Milano (MI) (IT). MILANI DE MAYO DE MARI, Mario

[IT/IT]; Via Frisi, 3, I-20133 Milano (IT). PEREGO, Paola Maria Chiara [IT/IT]; Via Borgazzi, 46, I-20900 Monza (MB) (IT). VASILE, Francesca [IT/IT]; Via Stradella, 2, I-20129 Milano (IT).

- (74) Agent: TRUPIANO, Federica; Marietti, Gislon e Trupiano Srl, Via Larga, 16, I-20122 Milano (IT).
- 20 February 2012 (20.02.2012) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
 - (84) Designated States (unless otherwise indicated, for every kind of regional protection available); ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- (88) Date of publication of the international search report:

31 October 2013



INTERNATIONAL SEARCH REPORT

International application No PCT/IB2012/000297

	FICATION OF SUBJECT MATTER C07K5/083 C07D487/04 A61P35/0	90 A61K31/5517					
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
	ocumentation searched (classification system followed by classificatio ${\tt CO7D}$	n symbols)					
Documentat	tion searched other than minimum documentation to the extent that su	uch documents are included in the fields sea	arched				
Electronic d	ata base consulted during the international search (name of data bas	se and, where practicable, search terms use	ed)				
EPO-In	ternal, CHEM ABS Data, BIOSIS, EMBAS	SE, WPI Data					
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category*	y* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.						
A	WO 2009/060292 A2 (UNIV DEGLI STU [IT]; FOND IRCCS ISTITUTO NAZ DET SCO) 14 May 2009 (2009-05-14) example 2	JDI MILANO I TU [IT];	1-20				
Furth	her documents are listed in the continuation of Box C.	X See patent family annex.					
"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		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 mailing of the international search report					
	August 2013	13/08/2013					
		· · ·					
iname and n	nailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Schleifenbaum, A					

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/IB2012/000297

WO 2009060292 A2	14 05 0000			
WO ZOOJOUZJE AZ	14-05-2009	EP EP US WO	2058312 A1 2220088 A2 2010267692 A1 2009060292 A2	13-05-2009 25-08-2010 21-10-2010 14-05-2009