

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/042018 A3

- (51) International Patent Classification⁷: C12N 5/08
- (21) International Application Number:
PCT/US2003/034670
- (22) International Filing Date: 30 October 2003 (30.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/423,348 1 November 2002 (01.11.2002) US
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:
5 January 2006
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



WO 2004/042018 A3

(54) Title: DOPAMINE NEURONS FROM HUMAN EMBRYONIC STEM CELLS

(57) Abstract: The present invention relates to methods and compositions for differentiating human embryonic stem cells into dopamine producing neurons. The methods and compositions of the present invention are suitable for use in the treatment of neurological disorders.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/34670

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 5/08
 US CL : 435/377, 365, 368, 375

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)
 U.S. : 435/377, 365, 368, 375

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Arenas et al., "GDNF Prevents Degeneration and Promotes the Phenotype of Brain Noradrenergic Neurons in Vivo" Neuron 15:1465-1473 (1995). Whole document, especially p 1468, 1st paragraph of discussion and references.	1 - 22
Y	CA 2454552 (NEUROPROGEN GMBH), 6 February 2003 (06.02.2003), p. 14 2nd. paragraph, p 19 4th. paragraph	1, 5-7, 11, 13 16, 17, 20 and 21
Y	US 20020151056 (SASAI et al.), 17 October 2002 (17.10.2002), claims 8 and 16	8
Y	Kawasaki et al., Induction of midbrain dopaminergic neurons from ES cells by stromal cell-derived inducing activity. Neuron, 28: 31-40, 2000. Whole document.	8
A	Hynes, M. Embryonic Stem Cells Go Dopaminergic. Neuron vol. 28, pp 11 - 14, October 2000	1 - 22

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See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

02 September 2005 (02.09.2005)

Date of mailing of the international search report

15 NOV 2005

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