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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 September 2010 (30.09.2010)

PCT

(10) International Publication Number
WO 2010/111663 A1

(51) International Patent Classification:
C12N 5/037 (2006.01)

(21) International Application Number:
PCT/US2010/028930

(22) International Filing Date:
26 March 2010 (26.03.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/163,619 26 March 2009 (26.03.2009) US

(71) Applicant *(for all designated States except US)*: **ETHICON, INC.** [US/US]; Route 22 West, Post Office Box 151, Somerville, New Jersey 08876-0151 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **KIHM, Anthony, J.** [US/US]; 7 Harrogate Circle, Princeton, New Jersey 08540 (US). **GOSIEWSKA, Anna** [US/US]; 39 Red Fox Court, Skillman, New Jersey 08558 (US).

(74) Agents: **FINAN, Therese, M.** et al.; Patton Boggs LLP, 8484 Westpark Drive, 9th Floor, McLean, Virginia 22102 (US).

(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, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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))*

[Continued on next page]

(54) Title: HUMAN UMBILICAL CORD TISSUE CELLS AS THERAPY FOR ALZHEIMER' S DISEASE

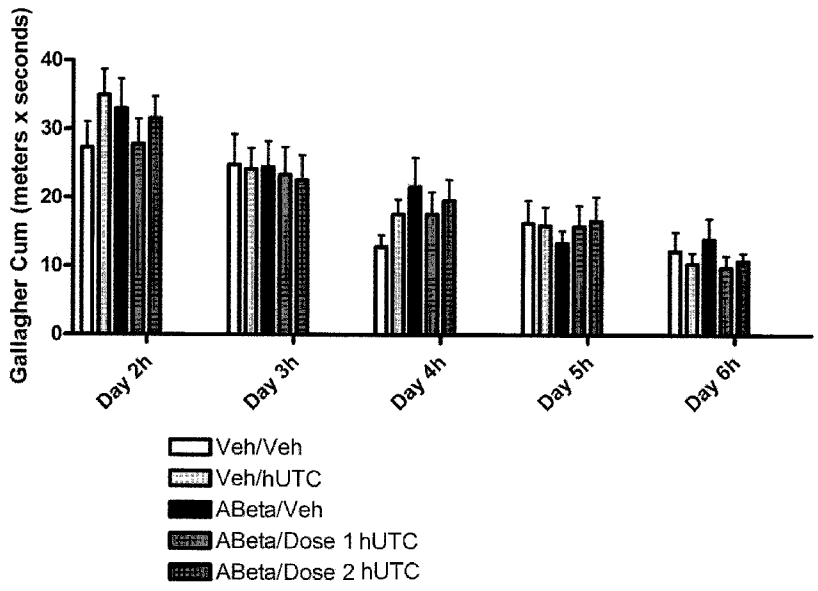


Figure 2

(57) Abstract: Methods for treating Alzheimer's disease, or the symptoms of Alzheimer's disease, are provided. Some embodiments are to methods for treatment comprising administering cells obtained from human umbilical cord tissue, or administering pharmaceutical compositions comprising such cells or prepared from such cells, such as cell derivatives. Some embodiments are to methods for treatment comprising hUTC. Pharmaceutical compositions for use in the inventive methods, as well as kits for practicing the methods are also provided.

WO 2010/111663 A1

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))*

— *with sequence listing part of description (Rule 5.2(a))*