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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 January 2008 (24.01.2008)

PCT

(10) International Publication Number
WO 2008/011524 A2

(51) International Patent Classification:
A61K 35/12 (2006.01)

(21) International Application Number:
PCT/US2007/073904

(22) International Filing Date: 19 July 2007 (19.07.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/807,861 20 July 2006 (20.07.2006) US

(71) Applicant and
(72) Inventor: **BURT, Richard** [US/US]; 680 N. Lake Shore Drive, 2400 Tower, Chicago, IL 60611 (US).

(74) Agent: **KRATZ, Rudy, I.**; Fitch, Even, Tabin & Flannery, 120 S. LaSalle Street, Suite 1600, Chicago, IL 60603 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

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 2008/011524 A2

(54) **Title:** METHOD OF USING MITOTICALLY INACTIVATED STEM CELLS FOR DAMAGED TISSUE REPAIR

(57) **Abstract:** The present invention is directed to the use of mitotically and/or lethally inactivated stem cells for the repair of damaged organs and/or tissues. Stem cells are mitotically and/or lethally inactivated and transplanted into damaged tissue. Any form of ex vivo inactivation of stem cells may be used such that the stem cells cannot undergo mitosis or cell division before in vivo application. Mitotically and/or lethally inactivated stem may be used to ameliorate numerous disease, injury, and/or degenerative conditions in different types of organs and/or tissues.