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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
4 December 2008 (04.12.2008)

PCT

(10) International Publication Number
WO 2008/147057 A1

(51) International Patent Classification:
A61K 35/34 (2006.01) *A61K 45/00* (2006.01)
A01N 63/00 (2006.01) *A61P 25/02* (2006.01)
C12N 5/06 (2006.01)

(21) International Application Number:
PCT/KR2008/002614

(22) International Filing Date: 9 May 2008 (09.05.2008)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2007-0050624 25 May 2007 (25.05.2007) KR

(71) Applicants *(for all designated States except US)*: **RNL BIO CO., LTD** [KR/KR]; 2F., Seongmoon Bldg., 1-26, Yangjae-dong, Seocho-gu, Seoul 137-130 (KR). **RA, Jeong Chan** [KR/KR]; 626-701, Cheongsolmaeul SK Hanhwa APT., 918, Jeongja-dong, Jangan-gu, Suwon-si, Gyeonggi-do 440-300 (KR).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **HAN, Hae Jung** [KR/KR]; 5201-201, Chodang Maeul Hyunjin, Everville Apt., 13-2, Jung-dong, Giheung-gu, Yongin-si, Gyeonggi-do 446-718 (KR). **LEE, Hang Young** [KR/KR]; 526-1803, Baekseol Maeul Jinlo Apt., Jeongja-dong, Jangan-gu, Suwon-si, Gyeonggi-do 440-719 (KR). **KIM, Hyo Eun** [KR/KR]; 105-601, Lotte Apt., Guro 5-dong, Guro-gu, Seoul 152-770 (KR).

(74) Agent: **LEE, Cheo Young**; 11th, Won Bldg., 648-26, Yeoksam-dong, Gangnam-gu, Seoul 135-080 (KR).

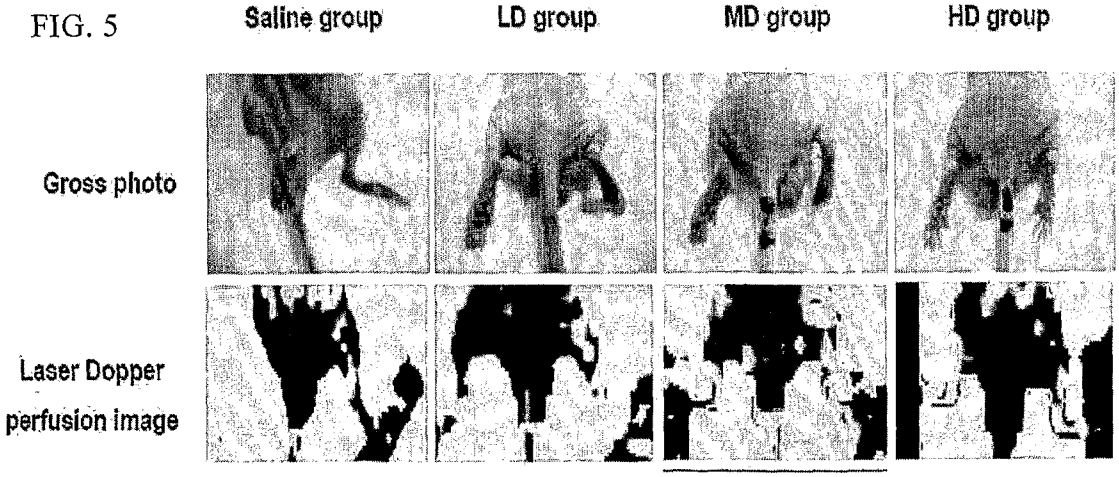
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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:
— *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*

(54) Title: COMPOSITION FOR TREATING ISCHEMIC LIMB DISEASE COMPRISING STEM CELLS DERIVED FROM ADIPOSE TISSUE

FIG. 5



(57) Abstract: Disclosed herein is a cell therapeutic composition for treating ischemic limb diseases, more specifically, disclosed is a cell therapeutic composition for treating ischemic diseases, which contains adipose tissue-derived mesenchymal stem cells and sucrose or mannose as an excipient. The composition induces angiogenesis around closed blood vessels in the ischemic limb lesions, and thus is useful to treat ischemic diseases.

WO 2008/147057 A1