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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 July 2011 (21.07.2011)

PCT

(10) International Publication Number
WO 2011/086509 A1

(51) International Patent Classification:
A61K 39/00 (2006.01) *C12N 7/02* (2006.01)
C07K 14/475 (2006.01) *C12N 15/861* (2006.01)

(21) International Application Number:
PCT/IB2011/050137

(22) International Filing Date:
12 January 2011 (12.01.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/294,158 12 January 2010 (12.01.2010) US

(71) Applicant *(for all designated States except US)*: **VASCULAR BIOGENICS LTD.** [IL/IL]; 6 Yoni Netanyahu Street, 60376 Or Yehuda (IL).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **BANGIO, Livnat** [IL/IL]; 1 Daniel Lifshitz Street, 49776 Petach-Tikva (IL). **SHER, Naamit** [IL/IL]; 3 Paldi Street, 76248 Rechovot (IL). **BREITBART, Eyal** [IL/IL]; 27 HaYitzhar Street, 73127 Hashmonaim (IL).

(74) Agents: **G.E EHRLICH (1995) LTD.** et al.; 11 Menachem Begin Road, 52681 Ramat Gan (IL).

(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 (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).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

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))*

(54) **Title**: METHODS OF PRODUCING ADENOVIRUS VECTORS AND VIRAL PREPARATIONS GENERATED THEREBY

(57) **Abstract**: The present invention, in some embodiments thereof, relates to methods of producing adenoviruses such as pro- and anti-angiogenic adenovirus vectors and preparations generated thereby. Particularly, in some embodiments, the viral vectors comprise a heterologous pro- or anti-angiogenic gene under the transcriptional control of the murine pre-proendothelin promoter (e.g. PPE-1-3X), for targeted expression of in angiogenic endothelium.

WO 2011/086509 A1