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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
2 August 2007 (02.08.2007)

PCT

(10) International Publication Number
WO 2007/085412 A1

(51) International Patent Classification:
C07K 14/71 (2006.01) *A61K 38/18* (2006.01)
C12N 15/12 (2006.01) *A61P 35/00* (2006.01)

(21) International Application Number:
PCT/EP2007/000538

(22) International Filing Date: 23 January 2007 (23.01.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
06 001 457.8 24 January 2006 (24.01.2006) EP

(71) Applicant *(for all designated States except US)*: **TECNOGEN S.p.A.** [IT/IT]; Via Fagianeria, 1, IT-81013 Piana di Monte Verna (CE) (IT).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **PRESTA Marco** [IT/IT]; Via Gaggia, 5, IT-25123 Brescia (IT). **CAMOZZI, Maura** [IT/IT]; Via Rissigni, 3, IT-24060 Telgate (BG) (IT). **RUSNATI, Marco** [IT/IT]; Piazza cavour, 5, IT-20060 Bussero (MI) (IT). **COLOMBO, Maurizio** [IT/IT]; Via A. Manzoni, 222, IT-80046 San Giorgio a Cremano (NA) (IT). **MASTROIANNI Domenico**; Via Pratola Ponte, 80, IT-80038 Pomigliano D'arco (NA) (IT).

(74) Agents: **CAPASSO Olga** et al.; De Simone & Partners S.p.A., Via Vincenzo Bellini, 20, IT-00198 Roma (IT).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: 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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, 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, 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:
— *with international search report*
— *with amended claims*

Date of publication of the amended claims: 11 October 2007

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.

(54) **Title:** FGF2-BINDING PEPTIDES AND USES THEREOF

(57) **Abstract:** FGF2-binding peptides are here described, which have been designed starting from the N-terminal region of PTX3, in particular spanning the PTX3(82-110) region. Synthetic peptides related to this sequence are able to bind FGF2 and to inhibit its pro-angiogenic activity in vitro and in vivo with no anticipated impact on innate immunity.

WO 2007/085412 A1