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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 February 2014 (20.02.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/027899 A1

(51) International Patent Classification:
G01N 33/68 (2006.01) *A61K 39/00* (2006.01)
C07K 16/22 (2006.01)

(21) International Application Number:
PCT/NZ2013/000142

(22) International Filing Date:
13 August 2013 (13.08.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/682,729 13 August 2012 (13.08.2012) US

(71) Applicant: **UNIVERSITY OF OTAGO** [NZ/NZ]; 34 Leith Walk, Dunedin, 9016 (NZ).

(72) Inventors; and
(71) Applicants : **ESPINER, Eric Arnold** [NZ/NZ]; c/o Department of Medicine, University of Otago, Christchurch, 8140 (NZ). **PRICKETT, Timothy Charles Ramsey** [NZ/NZ]; c/o Department of Medicine, University of Otago, Christchurch, 8140 (NZ).

(74) Agent: **FB RICE**; Level 14, 90 Collins Street, Melbourne, Victoria 3000 (AU).

(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, BN, 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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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,

[Continued on next page]

(54) Title: NT-proCNP AS A BIOMARKER OF VASCULAR DISORDERS AND PREGNANCY COMPLICATION

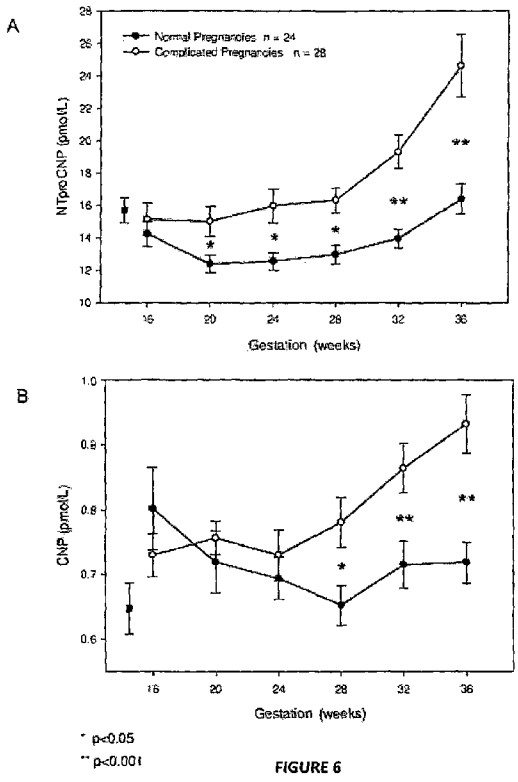


FIGURE 6

(57) Abstract: The present disclosure relates to methods for the prognosis and/or diagnosis of vascular-related disorders in a subject and in particular pregnancy-related vascular disorders. The present disclosure is based on the finding that a positive correlation exists between positive prediction of a vascular disorder event in a subject and the concentration of the circulating marker NTproCNP (also referred to as NT-CNP) in humans and animals. In addition, the present disclosure is based on the finding that there is also a positive correlation between the occurrence of a vascular-related adverse event during pregnancy and the concentration of the circulating marker NT-proCNP in the maternal circulation.

WO 2014/027899 A1

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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))*