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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 January 2013 (03.01.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/000021 A1

(51) International Patent Classification:
G01N 33/68 (2006.01) *G01N 33/53* (2006.01)

(21) International Application Number:
PCT/AU2012/000756

(22) International Filing Date:
27 June 2012 (27.06.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/502,811 29 June 2011 (29.06.2011) US

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(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, QA, RO, RS, RU, RW, 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, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

WO 2013/000021 A1

(54) Title: A CELL MEDIATED IMMUNE RESPONSE ASSAY WITH ENHANCED SENSITIVITY

(57) Abstract: This disclosure relates generally to the field of immunological-based diagnostic assays including an assay to measure cell-mediated immunoresponsiveness. The present disclosure teaches diagnosis of a subject's exposure to an antigen based on cell-mediated immunoresponsiveness with enhanced sensitivity. Lymphocytes from a subject are contacted with at least a first set of peptides comprising at least one peptide of from 7 to 14 amino acid residues in length and a second set comprising at least one peptide of 16 amino acid residues or greater and the presence or elevation of an immune molecule is detected. The assay contemplated herein is capable of integration into standard pathology architecture to provide a diagnostic reporting system and to facilitate point of care clinical management.