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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
2 February 2012 (02.02.2012)

PCT

(10) International Publication Number
WO 2012/012874 A1

(51) International Patent Classification:
*A61K 39/00* (2006.01) *A61P 29/00* (2006.01)
*A61K 39/02* (2006.01) *A61P 35/00* (2006.01)
*A61K 39/12* (2006.01) *G01N 33/48* (2006.01)
*A61P 1/00* (2006.01)

(21) International Application Number:
PCT/CA2011/000851

(22) International Filing Date:
26 July 2011 (26.07.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

| | | |
|---|---|---|
| 12/843,296 | 26 July 2010 (26.07.2010) | US |
| 61/411,371 | 8 November 2010 (08.11.2010) | US |
| 13/019,208 | 1 February 2011 (01.02.2011) | US |
| 61/500,836 | 24 June 2011 (24.06.2011) | US |


(71) Applicant *(for all designated States except US)*: **QU BIOLOGICS INC.** [CA/CA]; 887 Great Northern Way, Suite 138, Vancouver, British Columbia V5T 4T5 (CA).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **GUNN, Harold David** [CA/CA]; 1116 Ironwork Passage, Vancouver, British Columbia V6H 3P1 (CA). **DHANJI, Salim** [CA/CA]; 1425 Sutherland Avenue, North Vancouver, British Columbia V7L 4B4 (CA).

(74) Agent: **KINGWELL, Brian G.**; Smart & Biggar, 2300-1055 West Georgia Street, P.O. Box 11115 , Vancouver, British Columbia V6E 3P3 (CA).

(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).

**Published**:

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

(54) Title: IMMUNOGENIC ANTI-INFLAMMATORY COMPOSITIONS

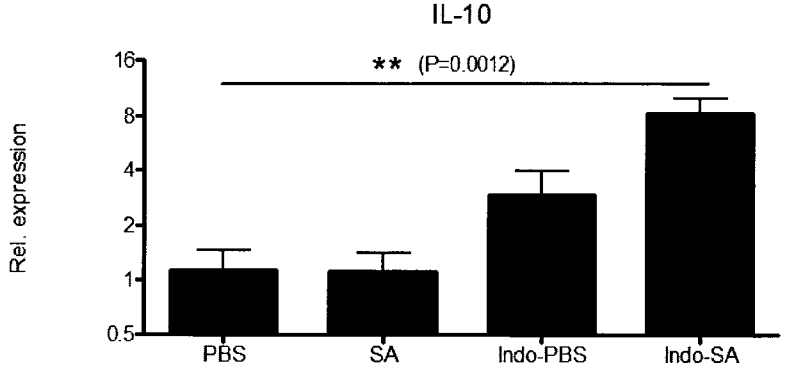



**Figure 48**

(57) Abstract: The invention provides methods of formulating an anti-inflammatory composition for treating inflammatory conditions in a specific organ or tissue. The method involves selecting at least one pathogen that is pathogenic in the specific organ or tissue; producing an antigenic composition comprising antigenic determinants that together are specific for the pathogen; and formulating the antigenic composition for administration as an anti-inflammatory composition capable of eliciting an anti-inflammatory response in the specific organ or tissue, wherein the condition characterized by inflammation is not a cancer. In embodiments of the invention, a cancer is situated in the specific organ or tissue.

WO 2012/012874 A1