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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 January 2013 (24.01.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/013075 A2

(51) International Patent Classification:
A61K 39/00 (2006.01) *C07K 16/30* (2006.01)
C07K 7/06 (2006.01) *A61P 35/00* (2006.01)
C07K 7/08 (2006.01)

(21) International Application Number:
PCT/US2012/047451

(22) International Filing Date:
19 July 2012 (19.07.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/509,896	20 July 2011 (20.07.2011)	US
61/609,074	9 March 2012 (09.03.2012)	US
13/553,137	19 July 2012 (19.07.2012)	US

(72) Inventors; and
(71) Applicants : **BOGOCH, Samuel** [CA/US]; 46 E. 91st Street, New York, New York 10128 (US). **BOGOCH, Elenore S.** [US/US]; 46 E. 91st Street, New York, New York 10128 (US). **BOGOCH, Samuel Winston** [CA/US]; 429 - 62nd Street, Oakland, California 94609 (US). **BORSANYI, Anne Elenore** [CA/US]; 46 E. 91st Street, New York, New York 10128 (US).

(74) Agent: **NICHOLSON, Daren P., USPTO Reg. No. 60,042**; 5065 Cainsville Road, Lebanon, Tennessee 37090 (US).

(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,

[Continued on next page]

(54) Title: PEPTIDES SHARED AMONG LETHAL CANCERS AND THERAPEUTIC COMPOSITIONS COMPRISING SAID PEPTIDES

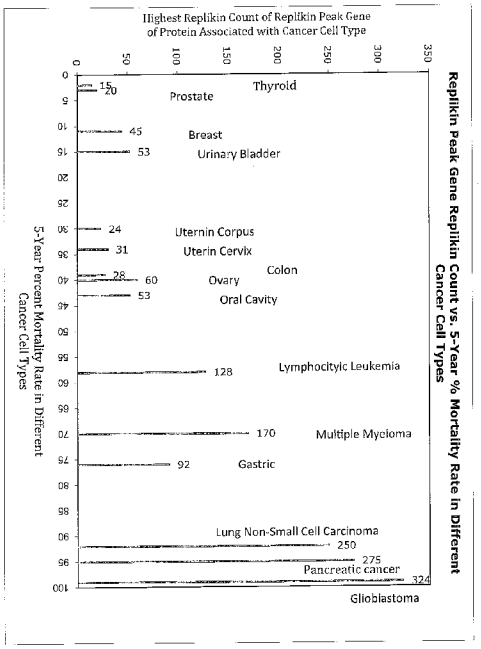


Figure 1

(57) Abstract: The present invention provides cancer peptides related to rapid replication and shared among different histological cancer types. The peptides are provided in compositions for interfering with replication in cancer, in preventive and therapeutic vaccines, and in diagnostic applications. The compositions for interfering with replication in cancer are useful for preventing and treating different histological types of cancer including ectodermic, endodermic, and mesodermic cancers as well as cancers arising in association with HIV.

WO 2013/013075 A2

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

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*