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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 February 2013 (28.02.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/028843 A1

(51) International Patent Classification:
C07K 7/06 (2006.01) *C07K 14/00* (2006.01)
C07K 7/08 (2006.01)

(21) International Application Number:
PCT/US2012/052027

(22) International Filing Date:
23 August 2012 (23.08.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/526,526 23 August 2011 (23.08.2011) US

(71) Applicant *(for all designated States except US)*: **PRESIDENT AND FELLOWS OF HARVARD COLLEGE** [US/US]; 17 Quincy Street, Cambridge, Massachusetts 02138 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **DITTRICH, Christian** [DE/CH]; Museumstrasse 3, CH-8400 Winterthur (CH). **DANUSER, Gaudenz** [US/US]; 65 Prentiss Street, Cambridge, MA 02140 (US).

(74) Agents: **RESNICK, David S.** et al.; NIXON PEABODY, LLP, 100 Summer Street, Boston, Massachusetts 02110 (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, 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, 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).

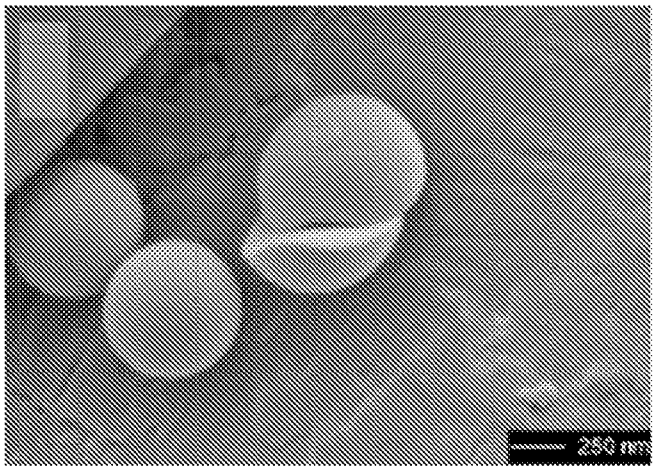
Published:

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

WO 2013/028843 A1

(54) Title: PEPTIDE NANOPARTICLES AND USES THEREOF

FIG. 2C



(57) Abstract: The inventions provided herein relate to amphiphilic peptides and particles comprising the amphiphilic peptides. Such amphiphilic peptides and particles described herein can be used as a delivery system, e.g., for therapeutic or diagnostic purposes, or as cell penetration vehicles or cell transfection agents.