

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
07 September 2018 (07.09.2018)



(10) International Publication Number
WO 2018/158457 A1

(51) International Patent Classification:

G01N 33/50 (2006.01) A61K 39/00 (2006.01)

G01N 33/569 (2006.01)

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, KM, ML, MR, NE, SN, TD, TG).

(21) International Application Number:

PCT/EP2018/055232

(22) International Filing Date:

02 March 2018 (02.03.2018)

Published:

- with international search report (Art. 21(3))
- with sequence listing part of description (Rule 5.2(a))

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

17159243.9	03 March 2017 (03.03.2017)	EP
17159242.1	03 March 2017 (03.03.2017)	EP
1703809.2	09 March 2017 (09.03.2017)	GB

(71) Applicant: TREOS BIO ZRT [HU/HU]; Viola utca 2, 8200 Veszprem (HU).

(72) Inventors: LISZIEWICZ, Julianna; Szorosi ut 13, 8220 Balatonalmádi (HU). MOLNÁR, Levente; Kossuth Lajos u. 20., 2363 Felsőpakony (HU). TÓKE, Enikő, R.; Kossuth Lajos u. 20., 2363 Felsőpakony (HU). TOTH, József; Újkút u. 72, 9012 Győr (HU). LORINCZ, Orsolya; Attila u. 27, fűsz/13, 1047 Budapest (HU). CSISZOVSKAI, Zsolt; Bikszádi u. 12/A, 4/9, 1119 Budapest (HU). SOMOGYI, Eszter; Borgazda u. 3, 8220 Balatonalmádi (HU). PÁNTYA, Katalin; Üllői út 16/b 2.em. 9/b, 1085 Budapest (HU). MEGYESI, Mónika; Táncsics Mihály u. 63, 3441 Mezokeresztes (HU).

(74) Agent: KIMBLIN, Nicola; 14 South Square, Gray's Inn, London Greater London WC1R 5JJ (GB).

(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,

(54) Title: POPULATION-BASED IMMUNOGENIC PEPTIDE IDENTIFICATION PLATFORM

(57) Abstract: The disclosure relates to methods of identifying fragments of a polypeptide that are immunogenic for a specific human subject, methods of preparing pharmaceutical compositions comprising such polypeptide fragments, pharmaceutical compositions comprising such polypeptide fragments, and methods of treatment using such compositions. The methods comprise identifying a fragment of the polypeptide that binds to multiple HLA of individual subjects.

WO 2018/158457 A1