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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
15 May 2014 (15.05.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/072467 A1

(51) International Patent Classification:
G01N 33/68 (2006.01) *G06F 19/10* (2011.01)

(21) International Application Number:
PCT/EP2013/073386

(22) International Filing Date:
8 November 2013 (08.11.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

12075124.3	8 November 2012 (08.11.2012)	EP
12075125.0	8 November 2012 (08.11.2012)	EP
61/724,103	8 November 2012 (08.11.2012)	US
12194008.4	23 November 2012 (23.11.2012)	EP
61/729,440	23 November 2012 (23.11.2012)	US
13075011.0	24 January 2013 (24.01.2013)	EP

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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, 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, IR, IS, JP, KE, KG, 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, 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, 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, KM, ML, MR, NE, SN, TD, TG).

Published:

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

WO 2014/072467 A1

(54) Title: METHOD FOR PREDICTION OF AN IMMUNE RESPONSE AGAINST MISMATCHED HUMAN LEUKOCYTE ANTIGENS

(57) Abstract: The invention relates to a method for prediction of an immune response against human leukocyte antigens (HLA) after transplantation, said method comprising HLA-typing of the donor and/or donor material and recipient to determine HLA-mismatches and determination of the number of predicted indirectly recognized HLA epitopes (PIRCHES). The invention therefore provides methods for selecting and/or screening donor material for allogeneic transplantation, for example for selecting donor material with permissible mismatches from mismatched unrelated donors. In preferred embodiments the method relates to pre-transplantation prediction of an unwanted alloreactivity that could occur after transplantation of hematopoietic stem cells, cord blood, kidneys and/or other cells, tissues or organs.