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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
16 April 2009 (16.04.2009)

PCT

(10) International Publication Number
WO 2009/047003 A1

(51) International Patent Classification:
C12N 5/00 (2006.01) *C07K 16/28* (2006.01)

(21) International Application Number:
PCT/EP2008/008599

(22) International Filing Date: 10 October 2008 (10.10.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

07020026.6	12 October 2007 (12.10.2007)	EP
07024782.0	20 December 2007 (20.12.2007)	EP
08006864.6	4 April 2008 (04.04.2008)	EP
08008255.5	30 April 2008 (30.04.2008)	EP

(71) Applicant *(for all designated States except US)*: **MAX-DELBRÜCK-CENTRUM FÜR MOLEKULARE MEDIZIN (MDC)** [DE/DE]; Robert-Rössle-Strasse 10, 13125 Berlin (DE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **RÖTZSCHKE, Olaf** [DE/SG]; Singapore Immunology Network (SlgN), 8A Biomedical Grove, Immunos, Singapore 138648 (SG). **FALK, Kirsten** [DE/DE]; Robert-Rössle-Strasse 10, 13125 Berlin (DE). **KLEINEWIETFELD, Markus** [DE/DE]; Robert-Rössle-Strasse 10, 13125 Berlin (DE).

(74) Agents: **FORSTMEYER, Dietmar** et al.; Boeters & Lieck, Oberanger 32, 80331 München (DE).

(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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

WO 2009/047003 A1

(54) Title: METHOD AND KIT FOR RAPID ISOLATION OF HUMAN FOXP3+ TREG CELLS

(57) Abstract: The present invention relates to methods for isolating human forkhead box P3 (Foxp3+) CD4+ regulatory T cells (herein referred to as Foxp3+ Treg cells) from a sample containing (i) peripheral blood mononuclear cells (PBMCs), (ii) a lymphocyte containing fluid, or (iii) a lymphocyte containing tissue, a kit for isolating human Foxp3+ Treg cells, and the use of anti-CD49d antibody for the isolation of human Foxp3+ Treg cells.