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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
17 August 2000 (17.08.2000)

PCT

(10) International Publication Number
WO 00/47625 A3

(51) International Patent Classification[7]: C07K 16/28, C12N 5/10, 15/62, 15/13, G01N 33/68, 33/577, A61K 39/395, 35/12, A61P 35/00, 7/06, 3/00, 37/00, 25/00, 1/18, 19/02, 1/00, 17/00, A61K 35/14 // 39/505, 38/13, 31/445, 31/56, (A61K 39/395, 38:13) (A61K 39/395, 31:56) (A61K 39/395, 31:445) (A61K 39/395, 39:00)

(21) International Application Number: PCT/US00/03303

(22) International Filing Date: 9 February 2000 (09.02.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

09/249,011	12 February 1999 (12.02.1999)	US
09/339,596	24 June 1999 (24.06.1999)	US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:

US	09/339,596 (CIP)
Filed on	24 June 1999 (24.06.1999)

(71) Applicant *(for all designated States except US)*: **GENETICS INSTITUTE, INC.** [US/US]; 87 Cambridge Park Drive, Cambridge, MA 02140 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CO, Man, Sung** [US/US]; 10952 Wilkinson Avenue, Cupertino, CA 95014 (US). **VASQUEZ, Maximiliano** [CR/US]; 3813 Louis Road, Palo Alto, CA 94303 (US). **CARRENO, Beatriz** [VE/US]; 37 Nash Road, Acton, MA 01720 (US). **CELNIKER, Abbie, Cheryl** [US/US]; 560 Chestnut Street, Newton, MA 02468 (US). **COLLINS, Mary** [US/US]; 54 Rathbun Road, Natick, MA 01760 (US). **GOLDMAN, Samuel** [US/US]; 9 Mohawk Drive, Acton, MA 01720 (US). **GRAY, Gary, S.** [US/US]; 32 Milton Road, Brookline, MA 02445 (US). **KNIGHT, Andrea** [US/US]; 35 Hampton Towne Estates, Hampton, NH 03842 (US). **O'HARA, Denise** [GB/US]; 8 Jere Road, Reading, MA 01867 (US). **RUP, Bonita** [US/US]; 234 Washington Street, Reading, MA 01867 (US). **VELDMAN, Geertruida, M.** [NL/US]; 60 Woodmere Drive, Sudbury, MA 01776 (US).

(74) Agents: **BROOK, David, E.** et al.; Hamilton, Brook, Smith & Reynolds, P.C., Two Militia Drive, Lexington, MA 02421 (US).

(81) Designated States *(national)*: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

(88) Date of publication of the international search report:
2 August 2001

(48) Date of publication of this corrected version:
4 October 2001

(15) Information about Correction:
see PCT Gazette No. 40/2001 of 4 October 2001, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7 MOLECULES AND METHODS OF TREATMENT THEREWITH

(57) Abstract: The invention relates to humanized anti-B7-2 and anti-B7-1 antibodies, wherein each comprise a variable region of non-human origin and at least a portion of an immunoglobulin of human origin. The invention also pertains to methods of treatment for various autoimmune diseases, transplant rejection, inflammatory disorders and infectious diseases by administering humanized anti-B7-2 and/or anti-B7-1 antibodies.

WO 00/47625 A3