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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/083249 A3

(51) International Patent Classification[7]: C07K 16/28, A61K 39/395, A61P 37/00, 37/06

(21) International Application Number: PCT/US2004/007444

(22) International Filing Date: 12 March 2004 (12.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/454,336 14 March 2003 (14.03.2003) US

(71) Applicants *(for all designated States except US)*: **WYETH** [US/US]; Five Giralda Farms, Madison, NJ 07940 (US). **CAMBRIDGE ANTIBODY TECHNOLOGY LIMITED** [GB/GB]; The Milstein Building, Granta Park, Cambridge CB1 6GH (GB).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **YOUNG, Deborah, A.** [US/US]; 39 Nelson Road, Melrose, MA 02176 (US). **WHITTERS, Matthew, J.** [US/US]; 14 Brenton Wood Road, Hudson, MA 01749 (US). **VALGE-ARCHER, Viia** [US/GB]; 36 Westfield, Little Abington, Cambridge CB1 6BE (GB). **COLLINS, Mary** [US/US]; 54 Rathburn Road, Natick, MA 01760 (US). **WILLIAMS, Andrew, James** [GB/GB]; Larksmead, Long Lane, Fowlmere, Royston, Herts, SG8 7TG (GB). **WITEK, Joanne** [US/US]; 409 Arlington Street, Acton, MA 01720 (US).

(74) Agent: **GARRETT, Arthur, S.**; Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., 1300 I Street, N.W., Washington, DC 20005-3315 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, 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, HU, IE, IT, LU, MC, NL, 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*

(88) Date of publication of the international search report: 9 December 2004

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: ANTIBODIES AGAINST HUMAN IL-21 RECEPTOR AND USES THEREFOR

(57) Abstract: The present application provides human antibodies and antigen binding fragments thereof that specifically bind to the human interleukin-21 receptor (IL-21 R). The antibodies can act as antagonists of IL-21 R activity, thereby modulating immune responses in general, and those mediated by IL-21 R in particular. The disclosed compositions and methods may be used for example, in diagnosing, treating or preventing inflammatory disorders, autoimmune diseases, allergies, transplant rejection, cancer, and other immune system disorders.

WO 2004/083249 A3