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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
29 October 2009 (29.10.2009)

PCT

(10) International Publication Number
WO 2009/131702 A9

(51) International Patent Classification:
C07K 16/28 (2006.01) *A61P 37/00* (2006.01)

(21) International Application Number:
PCT/US2009/002536

(22) International Filing Date:
24 April 2009 (24.04.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/048,152 25 April 2008 (25.04.2008) US
61/048,500 28 April 2008 (28.04.2008) US

(71) Applicants *(for all designated States except US)*: **DYAX CORP.** [US/US]; 300 Technology Square, Cambridge, MA 02139 (US). **SYNTONIX PHARMACEUTICALS, INC.** [US/US]; 9 Fourth Avenue, Waltham, MA 02451 (US).

(72) Inventors; and

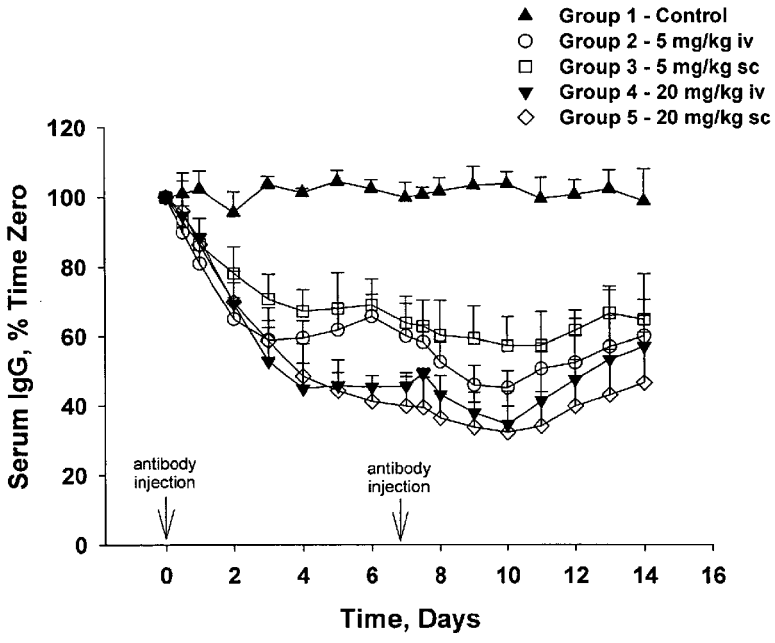
(75) Inventors/Applicants *(for US only)*: **TENHOOR, Christopher** [US/US]; 10 Wedgewood Drive, Hopkinton, MA 01748 (US). **MURUGANANDAM, Arumugam** [CA/IN]; 364 Rainbow Drive, Opposite To Wipro Corporate Office, Sarjapur Rd, Doddakannahalli, Bangalore 560035 (IN). **LADNER, Robert, Charles** [US/US]; 3827 Green Valley Road, Ijamsville, MD 21754 (US). **WOOD, Clive** [US/US]; 2 Hawthorne Place, #17r, Boston, MA 02114 (US). **BITONTI, Alan, J.** [US/US]; 32 Carlton Drive, Acton, MA 01720 (US). **STATTEL, James** [US/US]; 10007 White Hall Road, Hagerstown, MD 21740 (US). **MCDONNELL, Kevin** [CA/US]; 305 Dale Street, Waltham, MA 02451 (US). **LIU, Liming** [US/US]; 319 Gentry Lane, Upper Dublin, PA 19002 (US). **DUMONT, Jennifer** [US/US]; 37 Fawn Terrace Lane, Groton, MA 01450 (US). **SATO, Aaron** [US/US]; 760 Ventura St., Richmond, CA 94805 (US).

[Continued on next page]

(54) Title: ANTIBODIES AGAINST FCRN AND USE THEREOF

(57) Abstract: This disclosure provides, inter alia, proteins that bind to FcRn, *e.g.*, immunoglobulins that inhibit FcRn with high affinity and selectivity. The FcRn-binding proteins can be used to treat a variety of disorders including autoimmune disorders.

FIGURE 36



WO 2009/131702 A9

(74) **Agent**: **SIEKMAN, Michael, T.**; Wolf, Greenfield & Sacks, P.C., Federal Reserve Plaza, 600 Atlantic Avenue, Boston, MA 02210-2206 (US).

(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, MK, 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 (Art. 21(3))*

— *with sequence listing part of description (Rule 5.2(a))*

— *with information concerning authorization of rectification of an obvious mistake under Rule 91.3 (b) (Rule 48.2(i))*

(88) **Date of publication of the international search report**:
18 February 2010

(48) **Date of publication of this corrected version**:
23 September 2010

(15) **Information about Corrections**:
see Notice of 23 September 2010

Previous Correction:
see Notice of 23 December 2009