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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/037861 A2

(51) International Patent Classification[7]: C07K 16/00

(21) International Application Number:
PCT/IB2003/004748

(22) International Filing Date: 22 October 2003 (22.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/419,964 22 October 2002 (22.10.2002) US

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

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **VELDMAN, Geertruida, M.** [US/US]; 60 Woodmere Drive, Sudbury, MA 01776 (US). **DAVIES, Monique, V.** [US/US]; 167 Indian Rest Road, Harpswell, MA 04079 (US). **SONG, Kening** [US/US]; 10 Patrick Street, Arlington, MA 02474 (US). **WOLFMAN, Neil, M.** [US/US]; 5 Phillips Lane, Dover, MA 02030 (US). **GROVE-BRIDGES, Kristie** [US/US]; 9 George Road, Maynard, MA 01754 (US). **FIELD, Anne** [GB/GB]; 7 Armingford Crescent, Melbourn, Royston, Hertsfordshire, SG8 6NG (GB). **RUSSELL, Caroline** [GB/GB]; 40 Redwing Rise, Royston, Hertsfordshire SG8 7XU (GB). **VALGE-ARCHER, Viia** [US/GB]; 36 West Field, Little Abington, Cambridgeshire CB1 6BE (GB).

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

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, 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, 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 *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

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.

WO 2004/037861 A2

(54) Title: NEUTRALIZING ANTIBODIES AGAINST GDF-8 AND USES THEREFOR

(57) Abstract: The disclosure provides novel antibodies against growth and differentiation factor-8 (GDF-8), in particular human antibodies, and antibody fragments, including those that inhibit GDF-8 activity in vitro and/or in vivo. The disclosure also provides methods for diagnosing, preventing, or treating degenerative disorders of muscle or bone, or disorders of insulin metabolism.