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(21) International Application Number: PCT/US99/24200 (22) International Filing Date: 15 October 1999 (15.10.99) (30) Priority Data: 60/104,491 16 October 1998 (16.10.98) US 60/120,237 16 February 1999 (16.02.99) US (71) Applicant (for all designated States except US): BIOGEN, INC. [US/US]; 14 Cambridge Center, Cambridge, MA 02142 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): WHITTY, Adrian [GB/US]; 71 Mill Street, Hopkinton, MA 01748 (US). RUNKEL, Laura [US/US]; 37 Lee Street #7, Cambridge, MA 02139 (US). BRICKELMAIER, Margot [US/US]; 20 Pinehurst Drive, Boxford, MA 01921 (US). HOCHMAN, Paula [US/US]; 14 White Avenue, Newton, MA 02459 (US). (74) Agent: KAPLAN, Warren, A.; Biogen, Inc., 14 Cambridge Center, Cambridge, MA 02142 (US).		(81) Designated States: 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, 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, 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 <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: INTERFERON-BETA FUSION PROTEINS AND USES (57) Abstract A fusion polypeptide is described having the amino acid sequence X-Y-Z, or portion thereof, comprising the amino acid sequence of a glycosylated interferon-beta (X); Y is an optional linker moiety; and Z is a polypeptide comprising at least a portion of a polypeptide other than glycosylated interferon-beta. It is preferred that X is human interferon-beta-1a. Mutants of interferon-beta-1a are also described.		