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(21) International Application Number: PCT/IB99/00367 (22) International Filing Date: 4 February 1999 (04.02.99) (30) Priority Data: 60/073,972 6 February 1998 (06.02.98) US 60/099,994 11 September 1998 (11.09.98) US (71) Applicant: ILEXUS PTY. LIMITED [AU/AU]; c/o Austin Research Institute, Kronheimer Building, A & RMC, Studley Road, Heidelberg, VIC 3084 (AU). (72) Inventors: HOGARTH, P., Mark; 23 Stewart Street, Williamstown, VIC 3016 (AU). POWELL, Maree, S.; 24 Taldra Drive, Ferntree Gully, VIC 3156 (AU). MCKENZIE, Ian, F., C.; 359 Brunswick Road, Brunswick, VIC 3056 (AU). MAXWELL, Kelly, F.; 9/33 Kensington Road, South Yarra, VIC 3141 (AU). GARRETT, Thomas, P., J.; 2 Gray Street, Brunswick, VIC 3056 (AU). EPA, Vidana; 3/361 Royal Parade, Parkville, VIC 3052 (AU). BAELL, Jonathan, B.; 77 Hawker Street, Ivanhoe, VIC 3079 (AU). MATTHEWS, Barry, R.; 9 Roy Road, Olinda, VIC 3788 (AU). MCCARTHY, Thomas, D.; 40 Tooronga Road, East Malvern, VIC 3145 (AU). PIETERSZ, Geoffrey, A.; 10 Jumbunna Street, Greensborough, VIC 3088 (AU).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, 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>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: THREE-DIMENSIONAL STRUCTURES AND MODELS OF Fc RECEPTORS AND USES THEREOF (57) Abstract: Disclosed are crystals, crystal structure FcγRIIa protein, three-dimensional coordinates of FcγRIIa protein, and structures and models derived from the FcγRIIa structure. Also disclosed are crystals of FcεRI protein and three-dimensional coordinates of FcεRI protein monomers and dimers derived from the FcγRIIa structure. Also disclosed are three-dimensional coordinates of FcγRIIIb proteins and models of FcγRIIIb derived from the FcγRIIa structure. The present invention also includes methods to produce such crystals, crystal structures and models. Uses of such crystals, crystal structures and models are also disclosed, including structure based drug design and therapeutic compositions.		