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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number
WO 2005/044998 A2

(51) International Patent Classification[7]: C12N

(21) International Application Number:
PCT/US2004/037137

(22) International Filing Date:
5 November 2004 (05.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/517,775 5 November 2003 (05.11.2003) US

(71) Applicant *(for all designated States except US)*: **PALINGEN, INC.** [US/US]; Suite 1400, 525 University Avenue, Palo Alto, CA 94301 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **NEELIMA, M., Bhat** [US/US]; 90 Alma Ct., Los Altos, CA 94022 (US). **MARCIA, M., Bieber** [US/US]; 12800 West Sunset Drive, Los Altos, CA 94022 (US). **NELSON, N., H., Teng** [US/US]; 24 Bluebell Lane, Hillsborough, CA 94010 (US). **MARTIN, E., Sanders** [US/US]; 420 El Centro Road, Hillsborough, CA 94010 (US).

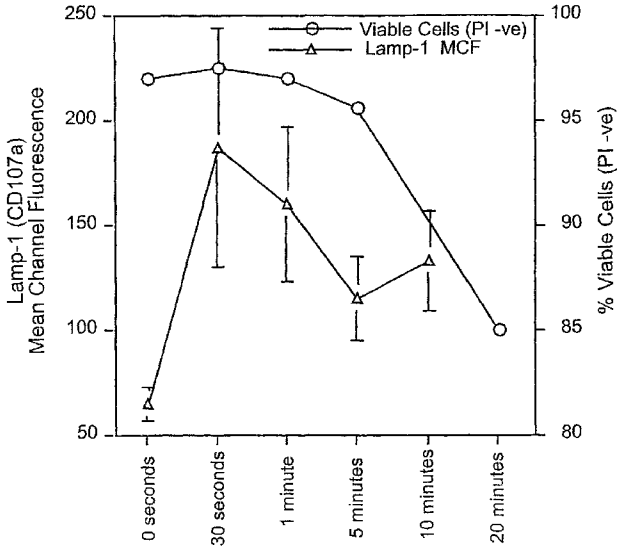
(74) Agent: **CYNTHIA, R., Moore**; 794 Los Robles Avenue, Palo Alto, CA 94306 (US).

(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, 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, HU, IE, IS, 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).

[Continued on next page]

(54) Title: ENHANCED B CELL CYTOTOXICITY OF CDIM BINDING ANTIBODY



(57) Abstract: Formulations and methods of treating human patients suffering from a condition characterized by lymphoid cancer, autoimmune disease or B cell hyperproliferation are disclosed, the treatment comprising administering (1) a cytotoxic amount of an antibody having specific binding for CDIM epitopes on a B cell, and (2) a cytotoxic agent, including a chemotherapeutic agent, radioactive isotope, cytotoxic antibody, immunoconjugate, ligand conjugate, immunosuppressant, cell growth regulator and/or inhibitor, toxin, or mixtures thereof, including agents that disrupt the cytoskeleton of B cells, particularly vinca alkaloids or colchicine.

WO 2005/044998 A2

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.