9800177-8

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : C12N 1/15

A1

(11) International Publication Number: WO 98/01534

(43) International Publication Date: 15 January 1998 (15.01.98)

(21) International Application Number: PCT/US97/11425

(22) International Filing Date: 30 June 1997 (30.06.97)

(30) Priority Data:
08/678,462 9 July 1996 (09.07.96) US

(60) Parent Application or Grant
(63) Related by Continuation
US 08/678,462 (CIP)
Filed on 9 July 1996 (09.07.96)

(71) Applicant *(for all designated States except US)*: UNIVERSITY OF HAWAII [US/US]; Mahoa Innovation Center, Suite 280, 2800 Woodlawn Drive, Honolulu, HI 96822 (US).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: STUART, W., Dorsey [US/US]; 46 Haiku Road #H-9, Kaneohe, HI 96744 (US).

(74) Agents: MILLMAN, Robert, A. et al.; Morrison & Foerster LLP, 2000 Pennsylvania Avenue, N.W., Washington, DC 20006-1888 (US).

(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, 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, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: NOVEL METHODS AND COMPOSITIONS FOR COMBINATORIAL-BASED DISCOVERY OF NEW MULTIMERIC MOLECULES

(57) Abstract

The present invention provides methods and compositions for producing and screening combinatorial-libraries of multimeric proteins. The present invention relies on the use of filamentous fungal heterokaryons that are produced using two or more parent strains into which a population of DNA molecules encoding variants of a multimeric protein have been introduced.