PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61K 31/55, 31/47 — A1

(11) International Publication Number: WO 99/59592

(43) International Publication Date: 25 November 1999 (25.11.99)

(21) International Application Number: PCT/SG99/00042

(22) International Filing Date: 14 May 1999 (14.05.99)

(30) Priority Data:

60/085,735	15 May 1998 (15.05.98)	US
09/310,826	13 May 1999 (13.05.99)	US

(71) Applicants *(for all designated States except US)*: NATIONAL UNIVERSITY OF SINGAPORE [SG/SG]; 10 Kent Ridge Crescent, Singapore 119260 (SG). ANG, Kean, Hooi [MY/SG]; Intro, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260 (SG).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: KARA, Anna, Ursula [DE/SG]; Intro, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260 (SG). HIGA, Tatsuo [JP/JP]; Intro, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260 (SG). HOLMES, Michael [AU/SG]; Intro, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260 (SG).

(74) Agent: APPLIED RESEARCH CORPORATION; Kent Ridge, P.O. Box 1016, Singapore 911101 (SG).

(81) Designated States: AE, 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, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, 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

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: ANTIMALARIAL ACTIVITY OF β–CARBOLINE ALKALOIDS

(57) Abstract

Manzamines, administered either intraperitoneally or orally, have been found to prolong survival and inhibit parasitemia in erythrocytic stage malaria. Thus, manzamines can be used for both prophylaxis and treatment. Manzamine A is a preferred compound for use in prophylaxis or treatment.

