

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 April 2009 (09.04.2009)

PCT

(10) International Publication Number
WO 2009/044127 A1

(51) International Patent Classification:
A61K 31/542 (2006.01) A61P 25/28 (2006.01)

(74) Agents: KREMER, Simon et al.; Mewburn Ellis LLP, 33 Gutter Lane, London EC2V 8AS (GB).

(21) International Application Number:
PCT/GB2008/003315

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date: 1 October 2008 (01.10.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/960,544 3 October 2007 (03.10.2007) US

(71) Applicant (for all designated States except US): WISTA LABORATORIES LTD. [GB/GB]; Institute of Medical Sciences, Forresterhill, Aberdeen Aberdeenshire AB25 2ZD (GB).

(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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WISCHIK, Claude, Michel [FR/GB]; Wista Laboratories Ltd., Institute of Medical Sciences, Forresterhill, Aberdeen, Aberdeenshire AB25 2ZD (GB). WISCHIK, Damon, Jude [GB/GB]; Department of Computer Science, University College London (UCL), Gower Street, London, Greater London WC1E 6BT (GB). STOREY, John, Mervyn, David [GB/GB]; Wista Laboratories Ltd., Department of Chemistry, Meston Walk, Old Aberdeen, Aberdeenshire AB24 3UE (GB). HARRINGTON, Charles, Robert [GB/GB]; Wista Laboratories Ltd., Institute of Medical Sciences, Forresterhill, Aberdeen, Aberdeenshire AB25 2ZD (GB).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments



WO 2009/044127 A1

(54) Title: THERAPEUTIC USE OF DIAMINOPHENOTHIAZINES

(57) Abstract: The present invention relates generally to methods and materials for use in the treatment or prophylaxis of diseases, for example cognitive disorders, using diaminophenothiazines. In particular it relates to treatments having optimised pharmacokinetic properties, and dosage forms are intended to improve the relative cognitive or CNS benefits of the diaminophenothiazines, for instance compared to haematological effects.