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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
25 September 2008 (25.09.2008)

PCT

(10) International Publication Number
WO 2008/113100 A1

(51) International Patent Classification:
A61K 31/353 (2006.01) *A61P 25/28* (2006.01)
A61P 9/10 (2006.01)

(21) International Application Number:
PCT/AU2008/000286

(22) International Filing Date: 5 March 2008 (05.03.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/918,365 16 March 2007 (16.03.2007) US

(71) Applicant *(for all designated States except US)*: **NOVOGEN RESEARCH PTY LTD** [AU/AU]; 140 Wicks Road, North Ryde, New South Wales 2113 (AU).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **MOR, Gil** [US/US]; Yale University School of Medicine, 333 Cedar Street, FMB 301, New Haven, Connecticut 06520 (US). **BROWN, David** [AU/AU]; 31 Pacey Avenue, North Ryde, New South Wales 2113 (AU). **HUSBAND, Alan James** [AU/AU]; 809/2 Jones Bay Road, Pyrmont, New South Wales 2009 (AU).

(74) Agents: **RECCHIA, Gavin, Dean** et al.; Davies Collison Cave, Level 14, 255 Elizabeth Street, Sydney, New South Wales 2000 (AU).

(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, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, 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).

Published:
— *with international search report*

WO 2008/113100 A1

(54) Title: METHOD FOR INDUCING AUTOPHAGY

(57) Abstract: The present invention relates to methods for inducing or promoting autophagy in a cell, the method comprising exposing to the cell an effective amount of a compound of formula I as described herein. The invention also relates to methods for treating or preventing diseases and disorders by administering to subjects in need thereof an effective amount of a compound of formula I, wherein the compound induces or promotes autophagy in at least one cell of the subject.