

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
20 July 2006 (20.07.2006)

PCT

(10) International Publication Number
WO 2006/074501 A1

(51) International Patent Classification:

C07C 277/00 (2006.01) **C07C 235/30** (2006.01)
C07C 279/04 (2006.01) **C07C 233/78** (2006.01)
C07C 279/24 (2006.01) **C07C 233/49** (2006.01)
C07C 231/02 (2006.01) **C07C 233/47** (2006.01)
C07C 269/06 (2006.01) **C07C 235/34** (2006.01)
C07C 271/00 (2006.01) **C07D 263/32** (2006.01)
C07C 233/64 (2006.01) **C07D 263/46** (2006.01)
C07C 233/48 (2006.01) **C07D 213/46** (2006.01)
C07C 233/54 (2006.01) **C07D 273/02** (2006.01)
C07C 235/26 (2006.01) **C07D 311/70** (2006.01)

[Continued on next page]

(21) International Application Number:

PCT/AU2005/001444

(22) International Filing Date:

21 September 2005 (21.09.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2005900134 13 January 2005 (13.01.2005) AU

(71) Applicant (for all designated States except US): **UNIVERSITY OF WOLLONGONG** [AU/AU]; Northfields Avenue, Wollongong, New South Wales 2522 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BOYLE, Timothy,**

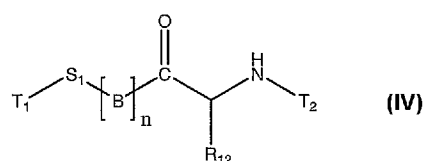
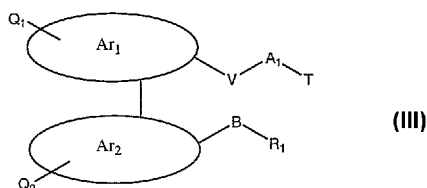
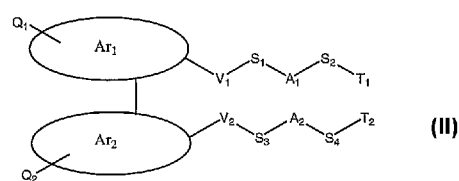
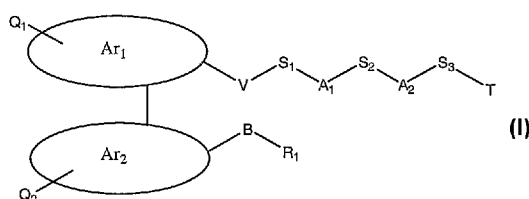
Patrick [AU/AU]; 4 Teatree Place, Kirrawee, New South Wales 2232 (AU). **BREMNER, John, Barnard** [AU/AU]; 38 The Parkway, Balgownie, New South Wales 2519 (AU). **BRKIC, Zinka** [AU/AU]; 1/25 Gladstone Ave, Wollongong, New South Wales 2500 (AU). **COATES, Jonathan, Alan, Victor** [AU/AU]; 9a Hutchison Ave, Beaumaris, Victoria 3193 (AU). **DALTON, Neal, Kevin** [AU/AU]; 5 Dean Street, Caringbah, New South Wales 2229 (AU). **DEADMAN, John** [GB/AU]; 114 Kay Street, Carlton, Victoria 3053 (AU). **KELLER, Paul, Anthony** [AU/AU]; 11 Michael Crescent, Kiama, New South Wales 2533 (AU). **MORGAN, Jody** [AU/AU]; 28 Arunta Drive, Thirroul, New South Wales 2515 (AU). **PYNE, Stephen, Geoffrey** [AU/AU]; 5 Ravenwood Place, Mt Keira, New South Wales 2500 (AU). **RHODES, David, Ian** [AU/AU]; 15 Myrtle Street, Heidelberg Heights, Victoria 3081 (AU). **ROBERTSON, Mark, James** [AU/AU]; 3/2 Grey Street, Keiraville, New South Wales 2500 (AU).

(74) Agent: **BLAKE DAWSON WALDRON PATENT SERVICES**; Level 39, 101 Collins Street, Melbourne, Victoria 3000 (AU).

(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, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,

[Continued on next page]

(54) Title: PEPTIDIC COMPOUNDS



(57) Abstract: The present invention provides a compound of formula (I), (II), (III) and (IV) as defined herein and pharmaceutically acceptable derivatives thereof. The present invention further provides use of the compounds of the present invention in the treatment of bacterial infection and in the treatment of HIV infection. Also provided are pharmaceutical compositions comprising the compounds of the present invention.

WO 2006/074501 A1



SL, SM, 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, LT, LU, LV, 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).

(51) **International Patent Classification** [*Continued*]:

<i>C07D</i> 273/08 (2006.01)	<i>A61K</i> 31/353 (2006.01)
<i>A61P</i> 31/04 (2006.01)	<i>A61K</i> 31/216 (2006.01)
<i>A61P</i> 31/18 (2006.01)	<i>A61K</i> 31/165 (2006.01)
<i>A61K</i> 31/421 (2006.01)	<i>A61K</i> 31/245 (2006.01)
<i>A61K</i> 31/4402 (2006.01)	<i>A61K</i> 31/167 (2006.01)
<i>A61K</i> 31/395 (2006.01)	

Published:

— with international search 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.