

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

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 February 2016 (25.02.2016)

(10) International Publication Number
WO 2016/027249 A1

(51) International Patent Classification:

A61K 31/4375 (2006.01) A61K 31/5415 (2006.01)
A61K 31/4985 (2006.01) A61K 31/542 (2006.01)
A61K 31/538 (2006.01) A61K 31/554 (2006.01)
A61K 31/5383 (2006.01) A61P 31/04 (2006.01)

(21) International Application Number:

PCT/IB2015/056325

(22) International Filing Date:

20 August 2015 (20.08.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/040,488 22 August 2014 (22.08.2014) US

(71) Applicant: GLAXOSMITHKLINE INTELLECTUAL
PROPERTY DEVELOPMENT LIMITED [GB/GB];
980 Great West Road, Brentford Middlesex TW89GS
(GB).

(72) Inventor: WIDDOWSON, Katherine Louisa; 709
Swedeland Road, King of Prussia, Pennsylvania 19406
(US).

(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, BN, BR, BW, BY,

BZ, CA, CH, CL, 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, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,
MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,
SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))



WO 2016/027249 A1

(54) Title: TRICYCLIC NITROGEN CONTAINING COMPOUNDS FOR TREATING NEISSERIA GONORRHOEA INFECTION

(57) Abstract: The present invention relates to methods for treating *Neisseria gonorrhoeae* infection which comprises administering to a subject in need thereof novel Tricyclic nitrogen containing compounds and corresponding pharmaceutical compositions as described herein.