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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 May 2011 (19.05.2011)

PCT

(10) International Publication Number
WO 2011/058346 A1

(51) International Patent Classification:
A61K 31/165 (2006.01) *A61P 31/00* (2006.01)
A61K 31/404 (2006.01) *A61P 31/04* (2006.01)
A61K 31/423 (2006.01) *A61P 31/12* (2006.01)
A61K 31/522 (2006.01) *A61P 31/10* (2006.01)
A61P 11/00 (2006.01)

(21) International Application Number:
PCT/GB2010/051858

(22) International Filing Date:
9 November 2010 (09.11.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0919711.2 11 November 2009 (11.11.2009) GB
1001837.2 4 February 2010 (04.02.2010) GB

(71) Applicant *(for all designated States except US)*: **BIOCOPEA LIMITED** [GB/GB]; CentralPoint, 45 Beech Street, London EC2Y 8AD (GB).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **BANNISTER, Robin Mark** [GB/GB]; Biocopea Limited, CentralPoint, 45 Beech Street, London EC2Y 8AD (GB). **WANDERLAY, Wilson Caparros** [GB/GB]; Biocopea Limited, CentralPoint, 45 Beech Street, London EC2Y 8AD (GB). **BREW, John** [GB/GB]; Biocopea Limited, CentralPoint, 45 Beech Street, London EC2Y 8AD (GB).

(74) Agent: **HUTTER, Anton**; Venner Shipley LLP, 20 Little Britain, London EC1A 7DH (GB).

(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, 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, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report (Art. 21(3))*

WO 2011/058346 A1

(54) **Title**: TREATMENT OF MICROBIAL INFECTIONS

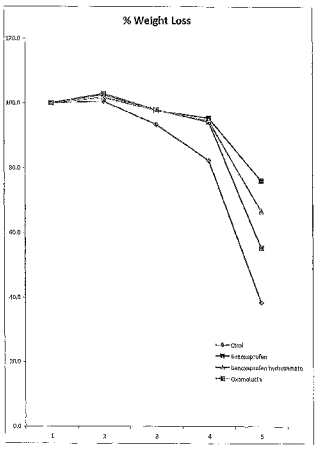


Figure 1

(57) **Abstract**: The invention provides compositions, medicaments and methods of treating microbial infections, and especially respiratory disorders caused by microbial infections. In particular, the invention relates to the treatment of respiratory diseases caused by pathogenic infections using certain either alkyl substituted or un-substituted 2-aryl acetic acid, or 2-aryl, N-hydroxyacetamide derivatives, or pentoxifylline, and to the use of these compounds in methods of treatment.