



(11)

EP 3 099 298 B8

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 73

(51) Int Cl.:
A61K 31/435 ^(2006.01) **A61K 31/4525** ^(2006.01)
A61K 31/496 ^(2006.01) **A61K 31/7072** ^(2006.01)
A61K 38/12 ^(2006.01) **A61P 31/04** ^(2006.01)
A61P 31/10 ^(2006.01)

(48) Corrigendum issued on:
22.05.2019 Bulletin 2019/21

(86) International application number:
PCT/GB2015/050209

(45) Date of publication and mention
of the grant of the patent:
20.03.2019 Bulletin 2019/12

(87) International publication number:
WO 2015/114340 (06.08.2015 Gazette 2015/31)

(21) Application number: **15704827.3**

(22) Date of filing: **29.01.2015**

(54) **ZIDOVUDINE COMBINATION THERAPIES FOR TREATING MICROBIAL INFECTIONS**

ZIDOVUDINKOMBINATIONSTHERAPIEN ZUR BEHANDLUNG VON MIKROBIELLEN
INFEKTIONEN

THÉRAPIES COMBINATOIRES PAR ZIDOVUDINE POUR LE TRAITEMENT D'INFECTIONS
MICROBIENNES

(84) Designated Contracting States:
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR**

(30) Priority: **30.01.2014 GB 201401617**

(43) Date of publication of application:
07.12.2016 Bulletin 2016/49

(73) Proprietor: **Helperby Therapeutics Limited**
London WC2A 3LH (GB)

(72) Inventors:
• **COATES, Anthony**
London SW17 0RE (GB)
• **HU, Yanmin**
London SW17 0RE (GB)

(74) Representative: **D Young & Co LLP**
120 Holborn
London EC1N 2DY (GB)

(56) References cited:
WO-A1-2007/054599

- **PANTOPOULOU ET AL: "Colistin offers prolonged survival in experimental infection by multidrug-resistant Acinetobacter baumannii: the significance of co-administration of rifampicin", INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS, ELSEVIER SCIENCE, AMSTERDAM, NL, vol. 29, no. 1, 22 December 2006 (2006-12-22), pages 51-55, XP005812322, ISSN: 0924-8579, DOI: 10.1016/J.IJANTIMICAG.2006.09.009**
- **B R KEITH ET AL: "In vivo efficacy of zidovudine (3'-azido-3'-deoxythymidine) in experimental gram-negative-bacterial infections.", ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, vol. 33, no. 4, April 1989 (1989-04), pages 479-483, XP055179911, ISSN: 0066-4804, DOI: 10.1128/AAC.33.4.479**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 3 099 298 B8

- DOLÉANS-JORDHEIM A ET AL: "Zidovudine (AZT) has a bactericidal effect on enterobacteria and induces genetic modifications in resistant strains", EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES, SPRINGER, BERLIN, DE, vol. 30, no. 10, 15 April 2011 (2011-04-15), pages 1249-1256, XP019951616, ISSN: 1435-4373, DOI: 10.1007/S10096-011-1220-3 cited in the application
- MASCELLINO M T ET AL: "In vitro activity of zidovudine alone and in combination with ciprofloxacin against Salmonella and Escherichia coli", FEMS IMMUNOLOGY AND MEDICAL MICROBIOLOGY, ELSEVIER SCIENCE B.V., AMSTERDAM, NL, vol. 7, no. 1, June 1993 (1993-06), pages 23-28, XP023924467, ISSN: 0928-8244, DOI: 10.1111/J.1574-695X.1993.TB00377.X [retrieved on 1993-06-01]
- E TAGLIAFERRI ET AL: "Synergistic Activity of Colistin (COL) plus Rifampin (RIF) Against COL-Resistant (R) and Susceptible (S) KPC-producing Klebsiella pneumoniae (KPC-KP) clinical isolates", ABSTRACTS OF THE INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, vol. 52, September 2012 (2012-09), page E796, XP055151648,
- CHITNIS S ET AL: "In vitro synergistic activity of colistin with aminoglycosides, beta-lactams and rifampin against multidrug-resistant gram-negative bacteria", JOURNAL OF CHEMOTHERAPY, SCRIT, IT, vol. 19, no. 2, April 2007 (2007-04), pages 226-229, XP009169446, ISSN: 1120-009X
- R. K. BHARDWAJ: "Piperine, a Major Constituent of Black Pepper, Inhibits Human P-glycoprotein and CYP3A4", JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol. 302, no. 2, August 2002 (2002-08), pages 645-650, XP055180107, ISSN: 0022-3565, DOI: 10.1124/jpet.102.034728 cited in the application