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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 June 2021 (24.06.2021)

WIPO | PCT

(10) International Publication Number
WO 2021/123372 A1

(51) International Patent Classification:
C07D 471/04 (2006.01) *A61K 31/55* (2006.01)
C07D 491/107 (2006.01) *A61K 31/04* (2006.01)
A61K 31/551 (2006.01) *A61P 31/04* (2006.01)

(21) International Application Number:
PCT/EP2020/087308

(22) International Filing Date:
18 December 2020 (18.12.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/IB2019/061119
19 December 2019 (19.12.2019) IB

(71) Applicant: **DEBIOPHARM INTERNATIONAL S.A.** [CH/CH]; Forum "après-demain", Chemin Messidor 5-7, 1006 Lausanne (CH).

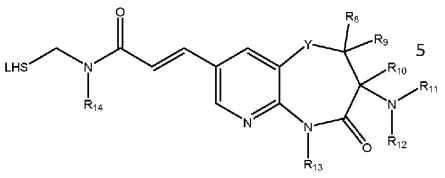
(72) Inventors: **GERUSZ, Vincent**; 274A, chemin des confertes, 74500 Neuvecelle (FR). **BRAVO, Juan**; Le Grand-Chemin 57, 1066 Epalinges (CH). **PAULS, Heinz**; 112 Ontario St., Guelph, Ontario, N1E 3B2 (CA). **BERMAN, Judd**; 920 Birchview Drive, Encinitas, California 92024 (US). **FINN, Terry**; 58 Boulevard St. Georges, 1205 Geneva (CH).

(74) Agent: **HOFFMANN EITLE PATENT- UND RECHTSANWÄLTE PARTMBB, ASSOCIATION NO. 151**; Arabellastraße 30, 81925 Munich (DE).

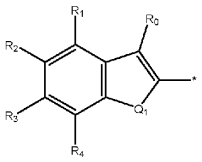
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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,

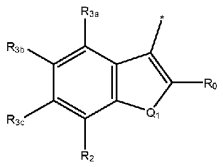
(54) Title: NOVEL COMPOUNDS AND THEIR USE



(I)



LHSa



LHSb

(57) Abstract: The present invention provides compounds of the general formula (I) or a pharmaceutically acceptable prodrugs, salts and/or solvates thereof, wherein LHS is selected from the group consisting of LHSa and LHSb And wherein, the asterisk (*) marks the point of attachment; These compounds exhibit antibacterial activity against Gram-negative and Gram-positive bacteria, especially S. aureus, E. coli, K. pneumoniae and A. baumannii. Pharmaceutical compositions containing these compounds, therapeutic uses thereof and methods for manufacturing the same are also provided.

WO 2021/123372 A1

[Continued on next page]

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).

Published:

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