

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
24 August 2023 (24.08.2023)



(10) International Publication Number
WO 2023/158382 A3

(51) International Patent Classification:

A61K 31/341 (2006.01) A61K 31/4965 (2006.01)
A61K 31/351 (2006.01) A61K 31/401 (2006.01)
A61K 31/519 (2006.01) A61P 39/00 (2006.01)
A61K 31/282 (2006.01) A61P 43/00 (2006.01)
A61K 31/295 (2006.01)

(21) International Application Number:

PCT/SG2023/050096

(22) International Filing Date:

17 February 2023 (17.02.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202201536U 17 February 2022 (17.02.2022) SG

(71) Applicant: **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 1 Fusionopolis Way, #20-10 Connexis North, Singapore 138632 (SG).

(72) Inventors: **ALFATAH, Mohammad**; c/o Bioinformatics Institute (BII), Agency for Science Technology and Research (A*STAR), 30 Biopolis Street, #07-01 Matrix, Singapore 138671 (SG). **EISENHABER, Frank**; c/o Bioinformatics Institute (BII), Agency for Science Technology and Research (A*STAR), 30 Biopolis Street, #07-01 Matrix, Singapore 138671 (SG). **ZHANG, Yizhong**; c/o Bioinformatics Institute (BII), Agency for Science Technology and Research (A*STAR), 31 Biopolis Street, #07-01 Matrix, Singapore 138671 (SG).

(74) Agent: **SPRUSON & FERGUSON (ASIA) PTE LTD**; P.O. Box 1531, Robinson Road Post Office, Singapore 903031 (SG).

(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU,

LY, MA, MD, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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:

— of inventorship (Rule 4.17(iv))

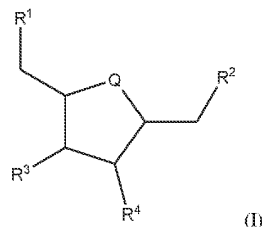
Published:

— with international search report (Art. 21(3))
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

02 November 2023 (02.11.2023)

(54) Title: COMPOUNDS FOR ANTI-AGING INTERVENTION



(57) Abstract: The present invention relates to the use of a compound of formula (I): to extend the chronological lifespan of a cell, a method for extending the chronological lifespan of a cell, the compound for use in extending the chronological lifespan of a cell and the use of the compound in the manufacture of a medicament for extending the chronological lifespan of a cell.

WO 2023/158382 A3