

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
21 November 2024 (21.11.2024)



(10) International Publication Number
WO 2024/234065 A1

(51) International Patent Classification:

C12N 5/077 (2010.01) *A61P 9/10* (2006.01)
A61K 9/50 (2006.01) *A61P 17/02* (2006.01)
A61K 31/7105 (2006.01) *A61P 43/00* (2006.01)
A61K 35/33 (2015.01) *C12N 15/113* (2010.01)

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))
- with sequence listing part of description (Rule 5.2(a))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(21) International Application Number:

PCT/AU2024/050509

(22) International Filing Date:

17 May 2024 (17.05.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2023901542 18 May 2023 (18.05.2023) AU

(71) Applicant: **VIVAZOME THERAPEUTICS PTY LTD**

[AU/AU]; 22 Seaview Parade, Belmont, Victoria 3216 (AU).

(72) Inventors: **HAYLOCK, David**; 29 Fulham Park Drive, Lockleys, South Australia 5032 (AU). **NISBET, Ian**; Unit 6, 11 Livingstone Street, Ivanhoe, Victoria 3079 (AU). **SANGO, Xenia**; 4 Sidwell Court, Lower Plenty, Victoria 3093 (AU). **WHITE, Louise**; 248 Park Street, Fitzroy North, Victoria 3068 (AU). **NEWTON, Craig**; 22 Seaview Parade, Belmont, Victoria 3216 (AU).

(74) Agent: **PHILLIPS ORMONDE FITZPATRICK**; Level 16, 333 Collins Street, Melbourne, Victoria 3000 (AU).

(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, MU, 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,

(54) Title: EXTRACELLULAR VESICLES

(57) Abstract: The present disclosure relates to microRNAs (miRs) and extracellular vesicles comprising same and therapeutic uses thereof, for example, in modulating angiogenesis.

WO 2024/234065 A1