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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 October 2022 (27.10.2022)

WIPO | PCT

(10) International Publication Number
WO 2022/224206 A1

(51) International Patent Classification:
A61K 35/28 (2015.01) *A61P 31/14* (2006.01)
A61P 31/12 (2006.01)

(21) International Application Number:
PCT/IB2022/053762

(22) International Filing Date:
22 April 2022 (22.04.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2021901214	23 April 2021 (23.04.2021)	AU
2021902180	15 July 2021 (15.07.2021)	AU
2022900260	09 February 2022 (09.02.2022)	AU
2022900372	18 February 2022 (18.02.2022)	AU

(71) Applicant: **MESOBLAST INTERNATIONAL SARL** [CH/CH]; C/- Accounting and Management Services SA, Route de Pre-Bois 20, 1217 Meyrin (CH).

(72) Inventor: **ITESCU, Silviu**; C/- Level 38, 55 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, 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, JM, 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, 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))*
— *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*

(54) Title: METHOD FOR TREATING ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS) IN SPECIFIC PATIENTS USING MESENCHYMAL LINEAGE PRECURSOR OR STEM CELLS

(57) Abstract: The present disclosure relates to methods for treating or preventing Acute Respiratory Distress Syndrome (ARDS) in a subject in need thereof, the method comprising administering to the subject a composition comprising mesenchymal lineage precursor or stem cells (MLPSCs).

WO 2022/224206 A1