

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
13 February 2025 (13.02.2025)



(10) International Publication Number
WO 2025/034900 A3

(51) International Patent Classification:

G01N 33/50 (2006.01) B01L 3/00 (2006.01)
G01N 1/40 (2006.01) B01D 29/00 (2006.01)
B01D 39/16 (2006.01)

(21) International Application Number:

PCT/US2024/041336

(22) International Filing Date:

07 August 2024 (07.08.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

63/531,255 07 August 2023 (07.08.2023) US

(72) Inventors; and

(71) Applicants: ROSENBERG, Mark, A. [US/US]; 1502 Sw
5th Avenue, Boca Raton, FL 33432 (US). HILL, James, W.
[US/US]; 786 Keyland Street, Las Vegas, NV 89138 (US).

(74) Agent: BECKER, Daniel, M. et al.; Fenwick & West LLP,
801 California Street, Mountain View, CA 94041 (US).

(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,
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))

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

03 April 2025 (03.04.2025)

(54) Title: TREATING CIRCULATING CELL CLUSTERS

(57) Abstract: Circulating cell clusters found in subjects with cancer, autoimmune conditions, infections, or other diseases, can be trapped or disrupted by filtering them with an intra- or extracorporeal device and, in some cases, exposing them to a substance, such as enzyme, that reduces intercellular adhesion.



WO 2025/034900 A3