

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

(19) World Intellectual Property  
Organization  
International Bureau



(10) International Publication Number  
**WO 2022/103710 A1**

(43) International Publication Date  
19 May 2022 (19.05.2022)

(51) International Patent Classification:

A61K 38/08 (2019.01) C12N 5/12 (2006.01)  
A61K 9/00 (2006.01) A61K 35/12 (2015.01)

Published:

- with international search report (Art. 21(3))
- with sequence listing part of description (Rule 5.2(a))

(21) International Application Number:

PCT/US2021/058522

(22) International Filing Date:

09 November 2021 (09.11.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/111,869 10 November 2020 (10.11.2020) US

(71) Applicant: 9 MATERS BIOPHARMA, INC. [US/US];  
8480 Honeycutt Road, Suite 200, Raleigh, NC 27615 (US).

(72) Inventors: GRIFFIN, Patrick, H.; c/o 9 Maters Biopharma, Inc., 8480 Honeycutt Road, Suite 200, Raleigh, NC 27615 (US). BARAK, Nir; c/o 9 Maters Biopharma, Inc., 8480 Honeycutt Road, Suite 200, Raleigh, NC 27615 (US). APPAJOSYULA, Sireesh; c/o 9 Maters Biopharma, Inc., 8480 Honeycutt Road, Suite 200, Raleigh, NC 27615 (US).

(74) Agent: HAYMAN, Mark, L. et al.; Morgan Lewis & Bockius LLP, 1111 Pennsylvania Avenue, NW, Washington, DC 20004 (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, 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, 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).

(54) Title: METHODS FOR TREATING SHORT BOWEL SYNDROME AND/OR HIGH OUTPUT OSTOMY

(57) Abstract: The present invention provides methods and compositions for treating short bowel syndrome and/or high output ostomy. The invention comprises administering to a patient in need a long-acting GLP-1 receptor agonist. In various embodiments, the method reduces ostomy output, reduces requirement for parenteral nutrition, and/or ameliorates acute intestinal failure.

WO 2022/103710 A1