



(51) International Patent Classification:

A61K 31/7105 (2006.01) A61K 38/17 (2006.01)
A61K 38/02 (2006.01) A61K 48/00 (2006.01)

(21) International Application Number:

PCT/US2022/074614

(22) International Filing Date:

05 August 2022 (05.08.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/230,443 06 August 2021 (06.08.2021) US

(71) Applicant: THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA [US/US]; 3600 Civic Center Boulevard, 9th Floor, Philadelphia, PA 19104 (US).

(72) Inventors: YANG, Xiaolu; 538 Foxglove Lane, Wynnewood, PA 19096 (US). HUANG, Liangqian; 4518 Osage Ave., Apt 4, Philadelphia, PA 19143 (US).

(74) Agent: SINGH, Pallab et al.; Riverside Law, LLP, 175 Strafford Ave Ste 100, Wayne, PA 19087 (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, 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,

(54) Title: COMPOSITIONS AND METHODS FOR TREATMENT AND PREVENTION OF MISFOLDED PROTEINS

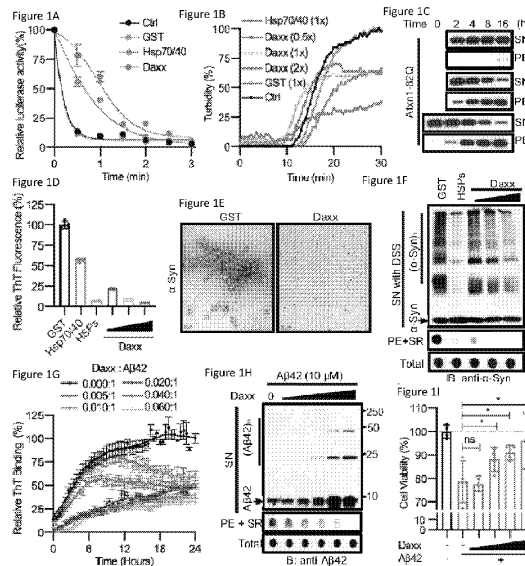


Figure 1

(57) Abstract: The present invention relates to compositions and methods for promoting the removal of misfolded proteins and protein aggregates. The compositions and methods may be used to treat or prevent a disorder associated with misfolded proteins or protein aggregates. In certain instances, the compositions and methods relate to modulators of one or more poly-D/E protein.

[Continued on next page]

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))*
- *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))*
- *with sequence listing part of description (Rule 5.2(a))*

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

02 March 2023 (02.03.2023)