

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

(19) World Intellectual Property  
Organization

International Bureau

(43) International Publication Date  
02 November 2023 (02.11.2023)



(10) International Publication Number  
**WO 2023/212294 A1**

(51) International Patent Classification:

A61P 27/06 (2006.01) C07K 16/22 (2006.01)  
A61K 39/00 (2006.01)

(21) International Application Number:

PCT/US2023/020354

(22) International Filing Date:

28 April 2023 (28.04.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/336,747 29 April 2022 (29.04.2022) US

(71) Applicant: **BROADWING BIO LLC** [US/US]; 171 Oyster Point Boulevard, Suite 300, South San Francisco, CA 94080 (US).

(72) Inventor: **PETERSON, Andrew**; c/o Broadwing Bio LLC, 171 Oyster Point Boulevard, Suite 300, South San Francisco, CA 94080 (US).

(74) Agent: **SCHLUETER, Peter, J.**; Casimir Jones, S.C., 2275 Deming Way, Suite 310, Middleton, WI 53562 (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).

(54) Title: ANGIOPOIETIN-RELATED PROTEIN 7-SPECIFIC ANTIBODIES AND USES THEREOF

(57) Abstract: The present disclosure relates to the treatment and/or prevention of glaucoma and other diseases affecting the optic nerve and retinal ganglion cells. In particular, the present disclosure provides novel therapeutic antibodies, and related compositions and methods, that target angiopoietin-related protein 7 (ANGPTL7) to reduce intraocular pressure (IOP) in order to prevent optic nerve damage and restore vision.



WO 2023/212294 A1