

Michael Abramoff

Tan T. F., Thirunavukarasu A. J., Campbell J. P., Keane P. A., Pasquale L. R., Abramoff M. D., Kalpathy-Cramer J., Lum F., Kim J. E., Baxter S. L. and Ting D. S. W. Generative Artificial Intelligence Through ChatGPT and Other Large Language Models in Ophthalmology: Clinical Applications and Challenges. *Ophthalmol Sci.* 2023 Dec;3(4): 100394. PMID: 37885755 PMCID: PMC10598525 url: <https://pubmed.ncbi.nlm.nih.gov/37885755/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10598525/pdf/main.pdf> doi: 10.1016/j.xops.2023.100394

Huang J., Wang J. X., Channa R., Wolf R., Abramoff M. D. and Liu T. Y. A. Autonomous artificial intelligence exams are associated with higher adherence to diabetic retinopathy testing in an integrated healthcare system. *Investigative Ophthalmology & Visual Science.* 2023 Jun;64(8): 3. PMID: WOS:001053758300294 PMCID: url: <Go to ISI>://WOS:001053758300294 doi:

Leong A., Wang J. X., Wolf R., Channa R., Abramoff M. D., Lehmann H. and Liu T. Y. A. Autonomous artificial intelligence (AI) increases health equity for patients who are more at risk for poor visual outcomes due to diabetic eye disease (DED). *Investigative Ophthalmology & Visual Science.* 2023 Jun;64(8): 3. PMID: WOS:001053758300323 PMCID: url: <Go to ISI>://WOS:001053758300323 doi:

Mansoor M., Ahmed S. B., Folk J. C. and Abramoff M. D. Reduction of post-intravitreal injection intraocular pressure spikes with caliper ocular decompression.

Channa R., Wolf R. M., Abràmoff M. D. and Lehmann H. P. Effectiveness of artificial intelligence screening in preventing vision loss from diabetes: a policy model. *NPJ Digit Med.* 2023 Mar;6(1): PMID: 36973403 PMCID: PMC10042864 url: <https://pubmed.ncbi.nlm.nih.gov/36973403/> doi: 10.1038/s41746-023-00785-z

Youssef A., Abramoff M. and Char D. Is the Algorithm Good in a Bad World, or Has It Learned to be Bad? The Ethical Challenges of "Locked" Versus "Continuously Learning" and "Autonomous" Versus "Assistive" AI Tools in Healthcare. *Am J Bioeth.* 2023 May;23(5): 43-45. PMID: 37130390 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37130390/> doi: 10.1080/15265161.2023.2191052

Zafar S., Staggers K. A., Gao J., Liu Y., Patel P. J., Foster P. J., Frankfort B. J., Abramoff M., Minard C. G., Warwick A., Khawaja A. P. and Channa R. Evaluation of retinal nerve fibre layer thickness as a possible measure of diabetic retinal neurodegeneration in the EPIC-Norfolk Eye Study. *Br J Ophthalmol.* 2023 May;107(5): 705-711. PMID: 34952836 PMCID: PMC9460960 url: <https://pubmed.ncbi.nlm.nih.gov/34952836/> doi: 10.1136/bjophthalmol-2021-319853

Abramoff M. D., Whitestone N., Patnaik J. L., Rich E., Ahmed M., Husain L., Hassan M. Y., Tanjil M. S. H., Weitzman D., Dai T., Wagner B. D., Cherwek D. H., Congdon N. and Islam K. Autonomous artificial intelligence increases real-world specialist clinic productivity in a cluster-randomized trial. *NPJ Digit Med.* 2023 Oct 4;6(1): 184. PMID: 37794054 PMCID: PMC10550906 url: <https://pubmed.ncbi.nlm.nih.gov/37794054/>

<https://www.nature.com/articles/s41746-023-00931-7.pdf> doi: 10.1038/s41746-023-00931-7

Shou B. L., Venkatesh K., Chen C., Ghidley R., Lee J. H., Wang J., Channa R., Wolf R. M., Abramoff M. D. and Liu T. Y. A. Risk Factors for Nondiagnostic Imaging in a Real-World Deployment of

Artificial Intelligence Diabetic Retinal Examinations in an Integrated Health care System: Maximizing Workflow Efficiency Through Predictive Dilation. *J Diabetes Sci Technol.* 2023 Oct 5;ONLINE AHEAD OF PRINT(19322968231201654. PMID: 37798955 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37798955/> doi: 10.1177/19322968231201654

Saenz A. D., Harned Z., Banerjee O., Abràmoff M. D. and Rajpurkar P. Autonomous AI systems in the face of liability, regulations and costs. *NPJ Digit Med.* 2023 Oct 6;6(1): 185. PMID: 37803209 PMCID: PMC10558567 url: <https://pubmed.ncbi.nlm.nih.gov/37803209/>

<https://www.nature.com/articles/s41746-023-00929-1.pdf> doi: 10.1038/s41746-023-00929-1

Abràmoff M. D., Tarver M. E., Loyo-Berrios N., Trujillo S., Char D., Obermeyer Z., Eydelman M. B. and Maisel W. H. Considerations for addressing bias in artificial intelligence for health equity. *NPJ Digit Med.* 2023 Sep 12;6(1): 170. PMID: 37700029 PMCID: PMC10497548 url: <https://pubmed.ncbi.nlm.nih.gov/37700029/>

<https://www.nature.com/articles/s41746-023-00913-9.pdf> doi: 10.1038/s41746-023-00913-9

Elaine Binkley

Binkley E. M., Rodriguez S., Hyer D., Hinz C. and Boldt H. C. Edge Creep: Increased Pigmentation at the Border of Choroidal Melanomas Treated with Plaque Brachytherapy. *Ocular Oncology and Pathology.* 2023 August;9(1-2): 56-61. PMID: PMCID: url: <https://karger.com/oop/article-abstract/9/1-2/56/843466/Edge-Creep-Increased-Pigmentation-at-the-Border-of?redirectedFrom=fulltext> doi: 10.1159/000531006

Fortenbach C. R., Rodriguez S. M. and Binkley E. M. Idiopathic Astrocytic Hamartoma of the Optic Disc. *Ophthalmology.* 2023 Dec;130(12): 1355. PMID: 37055291 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37055291/>

<https://www.sciencedirect.com/science/article/pii/S0161642023001574?via%3Dihub> doi: 10.1016/j.ophtha.2023.03.005

Singh A. D., Binkley E. M. and Bena J. F. Variability of High-risk Uveal Melanoma Survival Estimates Across Studies Based on 15-Gene Expression Profiling-In Reply. *JAMA Ophthalmol.* 2023 Feb;141(2): 212-213. PMID: 36547941 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36547941/> doi: 10.1001/jamaophthalmol.2022.5509

Binkley E. M., King B. A., Hyer D. E., Javed A., Milhem M. M., Hinz C. J., Mott S. L. and Boldt H. C. Post-operative echography for optimization of radiation dosimetry in patients with uveal melanoma treated with plaque brachytherapy. *Ophthalmol Retina.* 2023 Jul;7(7): 620-627. PMID: 36822323 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36822323/> doi: 10.1016/j.joret.2023.02.010

Perez E. A., Ramirez D. A., Peterson J. D., Binkley E. M., Boldt H. C., Gehrs K. M., Han I. C., Russell S. R., Sohn E. H., Larson S. A. and Russell J. F. The Ocular Trauma Score Underestimates Visual Recovery for the Most Severe Open Globe Injuries. *Ophthalmol Retina.* 2023 Jul;7(7): 612-619. PMID: 36746350 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36746350/> doi: 10.1016/j.joret.2023.01.021

Rodriguez S. M., Binkley E., Boldt H. C. and Hinz C. The Rim Creeper: Edge creep, increased pigmentation at the border of choroidal melanomas treated with plaque brachytherapy.

Berry J. L., Pike S., Rajagopalan A., Reid M. W., Fabian I. D., Afshar A. R., Alejos A., Alemany-Rubio E., Carreras Y. A., Arazi M., Astbury N. J., Bascaran C., Binkley E., Blum S., Boldt H. C., Bonanomi M., Bowman R., Brennan R. C., Burton M. J., Calderón-Sotelo P., Jara D. A. C., Cano M. R., Castillo L., Cavieres I., Cerna D. Q., Chandramohan A., Chantada G. L., Corson T. W., Cowan-Lyn K. E., Davanzo J. M., Demirci H., Coronado R. Y. D., Dimaras H., Macedo C. R. D., Erickson C., Fandiño A. C., Fernández D., Foster A., Fu L. D., Fuentes-Alabi S. L., Garcia J. L., Pacheco H. N. G., Girón A. V., Goenz M. A., Gold A. S., Gomel N., Gonzalez E., Perez G. G., González-Rodríguez L., Graells J., Grigorovski N., Hamel P., Hansen E. D., Harbour J. W., Elizabeth Hartnett M., Hassan M., Hubbard G. B., Kapelushnik N., Kim J. W., Larson S. A., Laurenti K. D., Leverant A. A., Li C., López J. P., Luna-Fineman S., Magrath G. N., Mallipatna A., Mattosinho C., Mets M. B., Miller A., Mruthyunjaya P., Murray T. G., Oliver S. C. N., Oporto J., Ortega-Hernández M., Ossandon D., Morales C. R. P., Paton K. E., Plager D. A., Polania R. A., Ponce J., Quintero D. K., Ramasubramanian A., Ramirez-Ortiz M. A., Randhawa J. K., Romero L., Salas B., Sánchez G. L., Orozco A. J. S., Sgroi M., Shah A. S., Shields C. L., Singh A. D., Skalet A. H., Stacey A. W., Stahl E. D., Strahlendorf C., Suarez M. E. C., Superstein R., Leiva F. F. T., Teixeira L. F., Uner O. E., Anchaya J. K. V., Vaughan L. O., Villegas V. M., Wilson M. W., Yaghya A., Yee R. I., López A. M. and Zondervan M. Retinoblastoma Outcomes in the Americas: a prospective analysis of 491 children with retinoblastoma from 23 American countries. Am J Ophthalmol. 2023 Nov 8;ONLINE AHEAD OF PRINT(PMID: 37949286 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37949286/>

<https://www.sciencedirect.com/science/article/pii/S0002939423004609?via%3Dihub> doi: 10.1016/j.ajo.2023.11.004

Rodriguez S. M., Boldt H. C., Sullivan H. R., Rieth J. M., Zakharia Y. and Binkley E. M. Spontaneous regression of choroidal metastasis from renal cell carcinoma. Am J Ophthalmol Case Rep. 2023 Oct;32(101945). PMID: 37886109 PMCID: PMC10598394 url: <https://pubmed.ncbi.nlm.nih.gov/37886109/> doi: 10.1016/j.ajoc.2023.101945

Erin Boese

Dawoud S. A., Keen J. A. and Boese E. A. Cosmetic Salvage of a Blind Traumatically Luxated Eye. Ophthalmology. 2023 Jan;130(1): PMID: 35777987 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/35777987/> doi: 10.1016/j.ophtha.2022.04.024

Boese E. A., Alward W. L. M., Kwon Y. H., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Thrombospondin Mutations and Primary Congenital Glaucoma Patients in a United States Population. J Glaucoma. 2023 Nov;32(11): e156-e160. PMID: 37327471 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37327471/> doi: 10.1097/ijg.0000000000002254

Mullin N. K., Voigt A. P., Boese E. A., Liu X., Stone E. M., Tucker B. A. and Mullins R. F. Transcriptomic and chromatin accessibility analysis of the human macular and peripheral retinal pigment epithelium at the single cell level. Am J Pathol. 2023 Nov;193(11): 1750-1761. PMID: 36775060 PMCID: PMC10616710 url: <https://pubmed.ncbi.nlm.nih.gov/36775060/> doi: 10.1016/j.ajpath.2023.01.012

Rivera S. S., Radunzel N. and Boese E. A. Symptomatic Netarsudil-Induced Verticillata. JAMA Ophthalmol. 2023 Nov 1;141(11): e232949. PMID: 37971506 PMCID: url: doi: 10.1001/jamaophthalmol.2023.2949

Tejan-Kamara A. Z., Boese E. A., Pouw A. E., Sears N. C., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Mutations in EFEMP1 in Patients with Juvenile Open-Angle Glaucoma. Ophthalmol Glaucoma. 2023 Nov-Dec;6(6): 668-670. PMID: 37224920 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37224920/> doi: 10.1016/j.ogla.2023.05.006

Boese E. A., Drack A. V., Roos B. R., Alward W. L. M., Tollefson M. R., Schnieders M. J., Scheetz T. E., Boldt H. C., Stone E. M. and Fingert J. H. GJA3 Genetic Variation and Autosomal Dominant Congenital Cataracts and Glaucoma Following Cataract Surgery. JAMA Ophthalmol. 2023 Sep;141(9): 872-879. PMID: 37589989 PMCID: PMC10436186 url: <https://pubmed.ncbi.nlm.nih.gov/37589989/>

https://jamanetwork.com/journals/jamaophthalmology/articlepdf/2808415/jamaophthalmology_boese_2023_oi_230046_1694029114.14189.pdf doi: 10.1001/jamaophthalmol.2023.3535

Rivera S. S., Boese E. A. and Dumitrescu A. Glaucoma in a patient with Singleton-Merten syndrome. J aapos. 2023 Sep 26;ONLINE AHEAD OF PRINT(PMID: 37769987 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37769987/> doi: 10.1016/j.jaapos.2023.08.006

H. C. Boldt

Binkley E. M., Rodriguez S., Hyer D., Hinz C. and Boldt H. C. Edge Creep: Increased Pigmentation at the Border of Choroidal Melanomas Treated with Plaque Brachytherapy. Ocular Oncology and Pathology. 2023 August;9(1-2): 56-61. PMID: PMCID: url: <https://karger.com/oop/article-abstract/9/1-2/56/843466/Edge-Creep-Increased-Pigmentation-at-the-Border-of?redirectedFrom=fulltext> doi: 10.1159/000531006

Binkley E. M., King B. A., Hyer D. E., Javed A., Milhem M. M., Hinz C. J., Mott S. L. and Boldt H. C. Post-operative echography for optimization of radiation dosimetry in patients with uveal melanoma treated with plaque brachytherapy. Ophthalmol Retina. 2023 Jul;7(7): 620-627. PMID: 36822323 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36822323/> doi: 10.1016/j.joret.2023.02.010

Perez E. A., Ramirez D. A., Peterson J. D., Binkley E. M., Boldt H. C., Gehrs K. M., Han I. C., Russell S. R., Sohn E. H., Larson S. A. and Russell J. F. The Ocular Trauma Score Underestimates Visual Recovery for the Most Severe Open Globe Injuries. Ophthalmol Retina. 2023 Jul;7(7): 612-619. PMID: 36746350 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36746350/> doi: 10.1016/j.joret.2023.01.021

Fenner B. J., Russell J. F., Drack A. V., Dumitrescu A. V., Sohn E. H., Russell S. R., Boldt H. C., Affatigato L. M., Hoffmann J. M., Andorf J. L., Stone E. M. and Han I. C. Long-term functional and structural outcomes in X-linked retinoschisis: implications for clinical trials. Front Med (Lausanne). 2023 Jun;10(PMID: 37396901 PMCID: PMC10310546 url: <https://pubmed.ncbi.nlm.nih.gov/37396901/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10310546/pdf/fmed-10-1204095.pdf> doi: 10.3389/fmed.2023.1204095

Jansen R. W., de Bloeme C. M., Cardoen L., Göricker S., van Elst S., Jessen J. L., Ramasubramanian A., Skalet A. H., Miller A. K., Maeder P., Uner O. E., Hubbard G. B., Grossniklaus H., Boldt H. C., Nichols K. E., Brennan R. C., Sen S., Sirin S., Brisse H. J., Galluzzi P., Dommering C. J., Castelijns J. A., van der Valk P., Boellaard R., Dorsman J., Moll A. C., de Jong M. C. and de Graaf P. MRI Features for Identifying MYCN-amplified RB1 Wild-type Retinoblastoma. *Radiology*. 2023 Jun;307(5): PMID: 37191489 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37191489/> doi: 10.1148/radiol.222264

Rodriguez S. M., Binkley E., Boldt H. C. and Hinz C. The Rim Creeper: Edge creep, increased pigmentation at the border of choroidal melanomas treated with plaque brachytherapy.

Berry J. L., Pike S., Rajagopalan A., Reid M. W., Fabian I. D., Afshar A. R., Alejos A., Alemany-Rubio E., Carreras Y. A., Arazi M., Astbury N. J., Bascaran C., Binkley E., Blum S., Boldt H. C., Bonanomi M., Bowman R., Brennan R. C., Burton M. J., Calderón-Sotelo P., Jara D. A. C., Cano M. R., Castillo L., Cavieres I., Cerna D. Q., Chandramohan A., Chantada G. L., Corson T. W., Cowan-Lyn K. E., Davanzo J. M., Demirci H., Coronado R. Y. D., Dimaras H., Macedo C. R. D., Erickson C., Fandiño A. C., Fernández D., Foster A., Fu L. D., Fuentes-Alabi S. L., Garcia J. L., Pacheco H. N. G., Girón A. V., Goenz M. A., Gold A. S., Gomel N., Gonzalez E., Perez G. G., González-Rodríguez L., Graells J., Grigorovski N., Hamel P., Hansen E. D., Harbour J. W., Elizabeth Hartnett M., Hassan M., Hubbard G. B., Kapelushnik N., Kim J. W., Larson S. A., Laurenti K. D., Leverant A. A., Li C., López J. P., Luna-Fineman S., Magrath G. N., Mallipatna A., Mattosinho C., Mets M. B., Miller A., Mruthyunjaya P., Murray T. G., Oliver S. C. N., Oporto J., Ortega-Hernández M., Ossandon D., Morales C. R. P., Paton K. E., Plager D. A., Polania R. A., Ponce J., Quintero D. K., Ramasubramanian A., Ramirez-Ortiz M. A., Randhawa J. K., Romero L., Salas B., Sánchez G. L., Orozco A. J. S., Sgroi M., Shah A. S., Shields C. L., Singh A. D., Skalet A. H., Stacey A. W., Stahl E. D., Strahlendorf C., Suarez M. E. C., Superstein R., Leiva F. F. T., Teixeira L. F., Uner O. E., Anchaya J. K. V., Vaughan L. O., Villegas V. M., Wilson M. W., Yaghya A., Yee R. I., López A. M. and Zondervan M. Retinoblastoma Outcomes in the Americas: a prospective analysis of 491 children with retinoblastoma from 23 American countries. *Am J Ophthalmol*. 2023 Nov 8;ONLINE AHEAD OF PRINT(PMID: 37949286 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37949286/>

<https://www.sciencedirect.com/science/article/pii/S0002939423004609?via%3Dihub> doi: 10.1016/j.ajo.2023.11.004

Rodriguez S. M., Boldt H. C., Sullivan H. R., Rieth J. M., Zakharia Y. and Binkley E. M. Spontaneous regression of choroidal metastasis from renal cell carcinoma. *Am J Ophthalmol Case Rep*. 2023 Oct;32(101945). PMID: 37886109 PMCID: PMC10598394 url: <https://pubmed.ncbi.nlm.nih.gov/37886109/> doi: 10.1016/j.ajoc.2023.101945

Boese E. A., Drack A. V., Roos B. R., Alward W. L. M., Tollefson M. R., Schnieders M. J., Scheetz T. E., Boldt H. C., Stone E. M. and Fingert J. H. GJA3 Genetic Variation and Autosomal Dominant Congenital Cataracts and Glaucoma Following Cataract Surgery. *JAMA Ophthalmol*. 2023 Sep;141(9): 872-879. PMID: 37589989 PMCID: PMC10436186 url: <https://pubmed.ncbi.nlm.nih.gov/37589989/>

https://jamanetwork.com/journals/jamaophthalmology/articlepdf/2808415/jamaophthalmology_boese_2023_oi_230046_1694029114.14189.pdf doi: 10.1001/jamaophthalmol.2023.3535

Timothy Boyce

Fortenbach C. R., Whitmore S. S., Thurtell M. J., Sohn E. H., Critser D. B., Stone E. M., Folk J. C., Han I. C. and Boyce T. M. Retinal Sublayer Analysis in Autoimmune Retinopathy and Identification of New Optical Coherence Tomography Phenotypes. *Ocul Immunol Inflamm.* 2023 Apr;ONLINE AHEAD OF PRINT(1-8. PMID: 37084288 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37084288/> doi: 10.1080/09273948.2023.2199334

Wiley L. A., Boyce T. M., Meyering E. E., Ochoa D., Sheehan K. M., Stone E., Mullins R. F., Tucker B. A. and Han I. C. The degree of AAV-induced retinal inflammation varies based on serotype and route of delivery: intravitreal, subretinal or suprachoroidal. *Hum Gene Ther.* 2023 Jun;34(11-12): 530-539. PMID: 36793189 PMCID: PMC10282814 url: <https://pubmed.ncbi.nlm.nih.gov/36793189/> doi: 10.1089/hum.2022.222

Keith Carter

Tran C., Choi D., Wang K., Carter K. D., Ko A. C. and Shriver E. M. Trends in Horizontal Periorcular Asymmetry. *Can J Ophthalmol.* 2023 Jun;58(3): 229-234. PMID: 34921767 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/34921767/>

<https://www.sciencedirect.com/science/article/pii/S0008418221004014?via%3Dihub> doi: 10.1016/j.jcjo.2021.11.004

Yom K. H., Simmons B. A., Pesce L. M., Warner L. L., Fuhrmeister L. J., Kemp P. S., Carter K. D. and Shriver E. M. Echographic characterization of extraocular muscles in pediatric patients with thyroid dysfunction. *Orbit.* 2023 Jun 20;ONLINE AHEAD OF PRINT(1-7. PMID: 37338122 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37338122/> doi: 10.1080/01676830.2023.2217510

Sophia Chung

Linton E., Pak T., Halhouli O., Field M. G., Gunderson C. and Chung S. M. Posterior Reversible Encephalopathy Syndrome With Visual Disturbances in an Adolescent After Overdose With Adderall XR: A Case Report. *J Neuroophthalmol.* 2023 Dec;43(4): e278-e279. PMID: 36190919 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36190919/> doi: 10.1097/wno.0000000000001615

Arlene V. Drack

Freedman S. F., Del Monte M. A., Diva U., Donahue S. P., Drack A. V., Dutta R., Fung S. S. M., Imperiale M., Jordan C. O., Lenhart P. D., Lim M. E., McCourt E. A., Nihalani B. R., Sabahi T., Stahl E. D., Miraldi Utz V. A., Wilson M. E., Jr., Yen K. G. and Vanderveen D. K. Prevalence of Cerebrotendinous Xanthomatosis (CTX) Among Patients Diagnosed With Early-Onset Idiopathic

Bilateral Cataracts: Final Analysis. J aapos. 2023 Aug;27(4): 208-211. PMID: 37321343 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37321343/> doi: 10.1016/j.jaapos.2023.04.013

Swier V. J., White K. A., Johnson T. B., Wang X., Han J., Pearce D. A., Singh R., Drack A. V., Pfeifer W., Rogers C. S., Brudvig J. J. and Weimer J. M. A novel porcine model of CLN3 Batten disease recapitulates clinical phenotypes. Dis Model Mech. 2023 Aug;16(8): PMID: 37305926 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37305926/> doi: 10.1242/dmm.050038

Hagedorn J. L., Dunn T. M., Bhattarai S., Stephan C., Mathews K. D., Pfeifer W. and Drack A. V. Electrotoretinogram abnormalities in FKRP-related limb-girdle muscular dystrophy (LGMDR9). Doc Ophthalmol. 2023 Feb;146(1): 7-16. PMID: 36399172 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36399172/> doi: 10.1007/s10633-022-09909-4

Fenner B. J., Russell J. F., Drack A. V., Dumitrescu A. V., Sohn E. H., Russell S. R., Boldt H. C., Affatigato L. M., Hoffmann J. M., Andorf J. L., Stone E. M. and Han I. C. Long-term functional and structural outcomes in X-linked retinoschisis: implications for clinical trials. Front Med (Lausanne). 2023 Jun;10(PMID: 37396901 PMCID: PMC10310546 url: <https://pubmed.ncbi.nlm.nih.gov/37396901/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10310546/pdf/fmed-10-1204095.pdf> doi: 10.3389/fmed.2023.1204095

Thompson J., Hsu Y., Gehrke E., Hassan S., Mayer S. K., Mahoney A. and Drack A. V. Resolution of retinal cysts following subretinal buffer injection in a mouse model of Juvenile X-linked Retinoschisis.

Hsu Y., Bhattarai S., Thompson J. M., Mahoney A., Thomas J., Mayer S. K., Datta P., Garrison J., Searby C. C., Vandenberghe L. H., Seo S., Sheffield V. C. and Drack A. V. Subretinal gene therapy delays vision loss in a Bardet-Biedl Syndrome type 10 mouse model. Mol Ther Nucleic Acids. 2023 Mar;31(164-181). PMID: 36700052 PMCID: PMC9841241 url: <https://pubmed.ncbi.nlm.nih.gov/36700052/> doi: 10.1016/j.omtn.2022.12.007

Boese E. A., Drack A. V., Roos B. R., Alward W. L. M., Tollefson M. R., Schnieders M. J., Scheetz T. E., Boldt H. C., Stone E. M. and Fingert J. H. GJA3 Genetic Variation and Autosomal Dominant Congenital Cataracts and Glaucoma Following Cataract Surgery. JAMA Ophthalmol. 2023 Sep;141(9): 872-879. PMID: 37589989 PMCID: PMC10436186 url: <https://pubmed.ncbi.nlm.nih.gov/37589989/>

https://jamanetwork.com/journals/jamaophthalmology/articlepdf/2808415/jamaophthalmology_boese_2023_oi_230046_1694029114.14189.pdf doi: 10.1001/jamaophthalmol.2023.3535

Alina Dumitrescu

Dumitrescu A. V., Jordan C. O., Weaver D. T. and Wagner R. S. Managing a Failed Nasolacrimal Duct Probing and Irrigation. J Pediatr Ophthalmol Strabismus. 2023 Jul-Aug;60(4): 234-237. PMID: 37478195 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37478195/> doi: 10.3928/01913913-20230426-02

Fenner B. J., Russell J. F., Drack A. V., Dumitrescu A. V., Sohn E. H., Russell S. R., Boldt H. C., Affatigato L. M., Hoffmann J. M., Andorf J. L., Stone E. M. and Han I. C. Long-term functional and structural outcomes in X-linked retinoschisis: implications for clinical trials. *Front Med* (Lausanne). 2023 Jun;10(PMID: 37396901 PMCID: PMC10310546 url: <https://pubmed.ncbi.nlm.nih.gov/37396901/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10310546/pdf/fmed-10-1204095.pdf> doi: 10.3389/fmed.2023.1204095

Rivera S. S., Boese E. A. and Dumitrescu A. Glaucoma in a patient with Singleton-Merten syndrome. *J aapos*. 2023 Sep 26;ONLINE AHEAD OF PRINT(PMID: 37769987 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37769987/> doi: 10.1016/j.jaapos.2023.08.006

John H. Fingert

Tejan-Kamara A. Z., Murhammer J. M. and Fingert J. H. Alpha-gal syndrome (AGS) in a glaucoma suspect with narrow iridocorneal angles. *Am J Ophthalmol Case Rep*. 2023 Jan;29(PMID: 36798447 PMCID: PMC9926184 url: <https://pubmed.ncbi.nlm.nih.gov/36798447/> doi: 10.1016/j.ajoc.2023.101811

Fingert J. H., Hedberg-Buenz A., Evans F., Anderson M. and Mullins R. Differential GABA receptor gene expression and risk for primary open angle glaucoma.

Singh R., Zhao Y., Fingert J. H., Gordon M. O., Kass M. A., Luo Y. Y., Segre A. V., Wiggs J. L., Elze T. and Zebardast N. Baseline visual field patterns identified by archetypal analysis are associated with glaucoma onset and progression in the Ocular Hypertension Treatment Study.

Boese E. A., Alward W. L. M., Kwon Y. H., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Thrombospondin Mutations and Primary Congenital Glaucoma Patients in a United States Population. *J Glaucoma*. 2023 Nov;32(11): e156-e160. PMID: 37327471 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37327471/> doi: 10.1097/ijg.0000000000002254

Tejan-Kamara A. Z., Boese E. A., Pouw A. E., Sears N. C., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Mutations in EFEMP1 in Patients with Juvenile Open-Angle Glaucoma. *Ophthalmol Glaucoma*. 2023 Nov-Dec;6(6): 668-670. PMID: 37224920 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37224920/> doi: 10.1016/j.ogla.2023.05.006

Boese E. A., Drack A. V., Roos B. R., Alward W. L. M., Tollefson M. R., Schnieders M. J., Scheetz T. E., Boldt H. C., Stone E. M. and Fingert J. H. GJA3 Genetic Variation and Autosomal Dominant Congenital Cataracts and Glaucoma Following Cataract Surgery. *JAMA Ophthalmol*. 2023 Sep;141(9): 872-879. PMID: 37589989 PMCID: PMC10436186 url: <https://pubmed.ncbi.nlm.nih.gov/37589989/>

https://jamanetwork.com/journals/jamaophthalmology/articlepdf/2808415/jamaophthalmology_boese_2023_oi_230046_1694029114.14189.pdf doi: 10.1001/jamaophthalmol.2023.3535

Fox A. R. and Fingert J. H. Familial normal tension glaucoma genetics. *Prog Retin Eye Res*. 2023 Sep;96(PMID: 37353142 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37353142/> doi: 10.1016/j.preteyeres.2023.101191

Oliver Gramlich

Anders J. J., Elwood B. W., Kardon R. H. and Gramlich O. W. Acriflavine, a HIF-1 inhibitor, preserves vision in an experimental autoimmune encephalomyelitis model of optic neuritis. *Front Immunol.* 2023 14(1271118). PMID: 37942317 PMCID: PMC10628762 url: <https://pubmed.ncbi.nlm.nih.gov/37942317/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10628762/pdf/fimmu-14-1271118.pdf> doi: 10.3389/fimmu.2023.1271118

Mark Greiner

Leonard B. C., Park S., Kim S., Young L. J., Jalilian I., Cosert K., Zhang X., Skeie J. M., Shevalye H., Echeverria N., Rozo V., Gong X., Xing C., Murphy C. J., Greiner M. A., Mootha V. V., Raghunathan V. K. and Thomasy S. M. Mice Deficient in TAZ (Wwtr1) Demonstrate Clinical Features of Late-Onset Fuchs' Endothelial Corneal Dystrophy. *Invest Ophthalmol Vis Sci.* 2023 Apr;64(4): PMID: 37074694 PMCID: PMC10132321 url: <https://pubmed.ncbi.nlm.nih.gov/37074694/> doi: 10.1167/iovs.64.4.22

Hartness E. M., Shevalye H., Skeie J. M., Schmidt G. and Greiner M. A. Fuchs Endothelial Corneal Dystrophy Involves Decreased Expression of Genes for Fe-S Cluster Synthesis.

Fairley J. A., Crowe T. P., Fakhimi M., Palmer S. J., Greiner M. A., Hellstein J. W., Van Daele D. J. and Messingham K. N. Disease Endotypes Predict the Severity of Mucous Membrane Pemphigoid. *J Invest Dermatol.* 2023 Aug;143(8): 1479-4786. PMID: 36870557 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36870557/>

<https://www.sciencedirect.com/science/article/pii/S0022202X23001082?via%3Dihub> doi: 10.1016/j.jid.2023.02.012

Ramirez D. A., Walling A. L., Fortenbach C. R., Witsberger E., Frey K., Jiang L., Syed N. A., Zimmerman M. B., Greiner M. A. and Sales C. S. Risk Factors for Fibrous Ingrowth in Eyes Requiring Primary Keratoplasty. *Cornea.* 2023 Dec;42(12): 1476-1481. PMID: 37647130 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37647130/> doi: 10.1097/ico.0000000000003326

Fortenbach C. R., Skeie J. M., Sevcik K. M., Johnson A. T., Oetting T. A., Haugdal J. M., Sales C. S., Nishimura D. Y., Taylor E. B., Schmidt G. A. and Greiner M. A. Metabolic and proteomic indications of diabetes progression in human aqueous humor. *PLoS One.* 2023 Jan;18(1): PMID: 36652491 PMCID: PMC9847982 url: <https://pubmed.ncbi.nlm.nih.gov/36652491/> doi: 10.1371/journal.pone.0280491

Echeverria N., Park S., Shim J., Ferneding M., Young L. J., Skeie J., Greiner M. A., Thomasy S. M. and Leonard B. Disease progression using multimodal corneal imaging in an early-onset murine model of FECD.

Kingsbury K. D., Skeie J. M., Cosert K., Schmidt G. A., Aldrich B. T., Sales C. S., Weller J., Kruse F., Thomasy S. M., Schlötzer-Schrehardt U. and Greiner M. A. Type II Diabetes Mellitus Causes Extracellular Matrix Alterations in the Posterior Cornea That Increase Graft Thickness and

Rigidity. Invest Ophthalmol Vis Sci. 2023 Jun;64(7): PMID: 37326594 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37326594/> doi: 10.1167/iovs.64.7.26

Kuo A. N., Cortina M. S., Greiner M. A., Li J. Y., Miller D. D., Shtein R. M., Veldman P. B., Yin J., Kim S. J. and Shen J. F. Advanced Corneal Imaging in Keratoconus: A Report by the American Academy of Ophthalmology. Ophthalmology. 2023 Oct 19;ONLINE AHEAD OF PRINT(PMID: 37855776 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37855776/>

<https://www.sciencedirect.com/science/article/pii/S0161642023005626?via%3Dihub> doi: 10.1016/j.ophtha.2023.07.030

Ian Han

Fortenbach C. R., Whitmore S. S., Thurtell M. J., Sohn E. H., Critser D. B., Stone E. M., Folk J. C., Han I. C. and Boyce T. M. Retinal Sublayer Analysis in Autoimmune Retinopathy and Identification of New Optical Coherence Tomography Phenotypes. Ocul Immunol Inflamm. 2023 Apr;ONLINE AHEAD OF PRINT(1-8. PMID: 37084288 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37084288/> doi: 10.1080/09273948.2023.2199334

Han I. C., Wiley L. A., Ochoa D., Lang M. J., Harman B. E., Sheehan K. M., Mullins R. F., Stone E. M. and Tucker B. A. Characterization of a novel Pde6b-deficient rat model of retinal degeneration and treatment with adeno-associated virus (AAV) gene therapy. Gene Ther. 2023 Apr;30(3-4): 362-368. PMID: 36175490 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36175490/> doi: 10.1038/s41434-022-00365-y

Whitmore S. S., DeLuca A. P., Andorf J. L., Cheng J. L., Mansoor M., Fortenbach C. R., Critser D. B., Russell J. F., Stone E. M. and Han I. C. Modeling rod and cone photoreceptor cell survival in vivo using optical coherence tomography. Sci Rep. 2023 Apr;13(1): PMID: 37106000 PMCID: PMC10140056 url: <https://pubmed.ncbi.nlm.nih.gov/37106000/> doi: 10.1038/s41598-023-33694-y

Perez E. A., Ramirez D. A., Peterson J. D., Binkley E. M., Boldt H. C., Gehrs K. M., Han I. C., Russell S. R., Sohn E. H., Larson S. A. and Russell J. F. The Ocular Trauma Score Underestimates Visual Recovery for the Most Severe Open Globe Injuries. Ophthalmol Retina. 2023 Jul;7(7): 612-619. PMID: 36746350 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36746350/> doi: 10.1016/j.oret.2023.01.021

Ricca A. M., Han I. C., Hoffman J., Stone E. M. and Sohn E. H. Macular Atrophy and Phenotypic Variability in Autosomal Dominant Stargardt-like Macular Dystrophy due to PROM1 mutation. Retina. 2023 Jul;43(7): 1165-1173. PMID: 36930890 PMCID: PMC10278565 url: <https://pubmed.ncbi.nlm.nih.gov/36930890/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10278565/pdf/retina-43-1165.pdf> doi: 10.1097/iae.0000000000003784

Fenner B. J., Russell J. F., Drack A. V., Dumitrescu A. V., Sohn E. H., Russell S. R., Boldt H. C., Affatigato L. M., Hoffmann J. M., Andorf J. L., Stone E. M. and Han I. C. Long-term functional and structural outcomes in X-linked retinoschisis: implications for clinical trials. Front Med

(Lausanne). 2023 Jun;10(PMID: 37396901 PMCID: PMC10310546 url: <https://pubmed.ncbi.nlm.nih.gov/37396901/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10310546/pdf/fmed-10-1204095.pdf> doi: 10.3389/fmed.2023.1204095

Han I. C., Coussa R. G., Mansoor M., Critser D. B., Sohn E. H., Russell J. F. and Stone E. M. Incidence and Risk Factors of Visual Impairment in Patients with Angioid Streaks and Macular Neovascularization Choroidal Neovascularization Is Common in Best Vitelliform Macular Dystrophy and Plays a Role in Vitelliform Lesion Evolution. *Ophthalmology*. 2023 Jun;130(6): 561-561. PMID: WOS:001074163600009 PMCID: url: <Go to ISI>://WOS:001074163600009 doi:

Wiley L. A., Boyce T. M., Meyering E. E., Ochoa D., Sheehan K. M., Stone E., Mullins R. F., Tucker B. A. and Han I. C. The degree of AAV-induced retinal inflammation varies based on serotype and route of delivery: intravitreal, subretinal or suprachoroidal. *Hum Gene Ther.* 2023 Jun;34(11-12): 530-539. PMID: 36793189 PMCID: PMC10282814 url: <https://pubmed.ncbi.nlm.nih.gov/36793189/> doi: 10.1089/hum.2022.222

Han I. C., Coussa R. G., Mansoor M., Critser D. B., Sohn E. H., Russell J. F. and Stone E. M. Choroidal Neovascularization Is Common in Best Vitelliform Macular Dystrophy and Plays a Role in Vitelliform Lesion Evolution. *Ophthalmol Retina*. 2023 May;7(5): 441-449. PMID: 36528270 PMCID: PMC10164042 url: <https://pubmed.ncbi.nlm.nih.gov/36528270/> doi: 10.1016/j.oret.2022.11.014

Reyes A. G., Critser D. B. and Han I. C. Peculiar Outer Plexiform Layer in Autosomal Dominant Wolfram Syndrome. *Ophthalmol Retina*. 2023 Nov;7(11): 947. PMID: 37306650 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37306650/> doi: 10.1016/j.oret.2023.05.015

Voigt A. P., Mullin N. K., Navratil E. M., Flamme-Wiese M. J., Lin L. C., Scheetz T. E., Han I. C., Stone E. M., Tucker B. A. and Mullins R. F. Gene Expression Within a Human Choroidal Neovascular Membrane Using Spatial Transcriptomics. *Invest Ophthalmol Vis Sci*. 2023 Oct 3;64(13): 40. PMID: 37878301 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37878301/> doi: 10.1167/iovs.64.13.40

Burnight E. R., Fenner B. J., Han I. C., DeLuca A. P., Whitmore S. S., Bohrer L. R., Andorf J. L., Sohn E. H., Mullins R. F., Tucker B. A. and Stone E. M. Demonstration of the pathogenicity of a common non-exomic mutation in ABCA4 using iPSC-derived retinal organoids and retrospective clinical data. *Hum Mol Genet*. 2023 Oct 31;ONLINE AHEAD OF PRINT(PMID: 37930186 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37930186/> doi: 10.1093/hmg/ddad176

Jaclyn Haugsdal

Fortenbach C. R., Skeie J. M., Sevcik K. M., Johnson A. T., Oetting T. A., Haugsdal J. M., Sales C. S., Nishimura D. Y., Taylor E. B., Schmidt G. A. and Greiner M. A. Metabolic and proteomic indications of diabetes progression in human aqueous humor. *PLoS One*. 2023 Jan;18(1): PMID: 36652491 PMCID: PMC9847982 url: <https://pubmed.ncbi.nlm.nih.gov/36652491/> doi: 10.1371/journal.pone.0280491

Randy H. Kardon

Anders J. J., Elwood B. W., Kardon R. H. and Gramlich O. W. Acriflavine, a HIF-1 inhibitor, preserves vision in an experimental autoimmune encephalomyelitis model of optic neuritis. *Front Immunol.* 2023;14(1271118). PMID: 37942317 PMCID: PMC10628762 url: <https://pubmed.ncbi.nlm.nih.gov/37942317/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10628762/pdf/fimmu-14-1271118.pdf> doi: 10.3389/fimmu.2023.1271118

Branco J., Wang J. K., Elze T., Garvin M., Szanto D., Kardon R., Pasquale L. and Kupersmith M. Classifying Papilledema Using Machine Learning - Modernizing Frisen Grading. *Neurology.* 2023 Apr;100(17): 3. PMID: WOS:001053672107002 PMCID: url: <Go to ISI>://WOS:001053672107002 doi: 10.1212/wnl.00000000000202204

Jones M. T., Sanchez S., Patel R. R., Raghuram A., Miller J. M., Hashimoto R., Kardon R. and Samaniego E. A. Evaluation of ocular blood flow in the assessment of symptomatic carotid stenosis. *Interv Neuroradiol.* 2023 Apr;ONLINE AHEAD OF PRINT(PMID: 37070150 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37070150/> doi: 10.1177/15910199231169844

Linton E., Nellis J., Tedeschi T. and Kardon R. H. Retinal Blood Flow Waveform Measurement With Laser Speckle Flowgraphy Reveals Specific Signs Of Carotid-Cavernous Fistula.

Szanto D., Wang J. K., Woods B., Elze T., Garvin M. K., Pasquale L. R., Kardon R. H., Branco J. and Kupersmith M. J. Patterns of Neuronal and Central Visual Field Loss in Optic Neuritis at Outcome Identified by Machine Learning.

Colman B. D., Fok A. J. and Kardon R. H. Reversal of Anisocoria in Horner Syndrome Following Commencement of Oral Reboxetine, a Selective Norepinephrine Reuptake Inhibitor. *J Neuroophthalmol.* 2023 Mar;ONLINE AHEAD OF PRINT(PMID: 36857129 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36857129/> doi: 10.1097/wno.0000000000001814

Branco J., Elze T., Wang J. K., Pasquale L. R., Garvin M. K., Kardon R. and Kupersmith M. J. Archetypal analysis of longitudinal visual fields for idiopathic intracranial hypertension patients presenting in a clinic setting. *PLOS Digit Health.* 2023 May;2(5): e0000240. PMID: 37155610 PMCID: PMC10166546 url: <https://pubmed.ncbi.nlm.nih.gov/37155610/> doi: 10.1371/journal.pdig.0000240

Pavlina Kemp

Yom K. H., Simmons B. A., Pesce L. M., Warner L. L., Fuhrmeister L. J., Kemp P. S., Carter K. D. and Shriver E. M. Echographic characterization of extraocular muscles in pediatric patients with thyroid dysfunction. *Orbit.* 2023 Jun 20;ONLINE AHEAD OF PRINT(1-7. PMID: 37338122 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37338122/> doi: 10.1080/01676830.2023.2217510

Markus H. Kuehn

O'Driscoll E., Hughes E., Irnaten M., Kuehn M., Wallace D. and O'Brien C. Role of Epithelial-to-Mesenchymal Transition of Retinal Pigment Epithelial Cells in Glaucoma Cupping. *J Clin Med.*

2023 Apr;12(7): PMID: 37048820 PMCID: PMC10095336 url:
<https://pubmed.ncbi.nlm.nih.gov/37048820/> doi: 10.3390/jcm12072737

Cheng L. and Kuehn M. H. Human Retinal Organoids in Therapeutic Discovery: A Review of Applications. *Handb Exp Pharmacol.* 2023 Aug 23; PMID: 37608005 PMCID: url:
<https://pubmed.ncbi.nlm.nih.gov/37608005/>

https://link.springer.com/content/pdf/10.1007/164_2023_691.pdf doi: 10.1007/164_2023_691

Zhu W., Zhang X., Wu S., Wang N. and Kuehn M. H. iPSCs-Based Therapy for Trabecular Meshwork. *Handb Exp Pharmacol.* 2023 Jul 27;281(277-300). PMID: 37495850 PMCID: url:
<https://pubmed.ncbi.nlm.nih.gov/37495850/>

https://link.springer.com/content/pdf/10.1007/164_2023_671.pdf doi: 10.1007/164_2023_671

Fard M. R. B., Chan J., Yonk M., Read A. T., Kuturu S. R., Emelianov S. Y., Kuehn M. H. and Ethier C. R. Quantifying specificity of stem cell delivery to the trabecular meshwork.

Bahrani Fard M. R., Chan J., Sanchez Rodriguez G., Yonk M., Kuturu S. R., Read A. T., Emelianov S. Y., Kuehn M. H. and Ethier C. R. Improved magnetic delivery of cells to the trabecular meshwork in mice. *Exp Eye Res.* 2023 Sep;234(109602). PMID: 37488007 PMCID: PMC10530071 url:
<https://pubmed.ncbi.nlm.nih.gov/37488007/> doi: 10.1016/j.exer.2023.109602

Young H. Kwon

Boese E. A., Alward W. L. M., Kwon Y. H., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Thrombospondin Mutations and Primary Congenital Glaucoma Patients in a United States Population. *J Glaucoma.* 2023 Nov;32(11): e156-e160. PMID: 37327471 PMCID: url:
<https://pubmed.ncbi.nlm.nih.gov/37327471/> doi: 10.1097/ijg.0000000000002254

Scott Larson

Larson D. R., Kimber A. J., Meyer K. J. and Anderson M. G. Anterior chamber depth in mice is controlled by several quantitative trait loci. *PLoS One.* 2023 18(8): e0286897. PMID: 37624784 PMCID: PMC10456175 url:
<https://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0286897&type=printable> doi: 10.1371/journal.pone.0286897

Bathla G., Dhruba D. D., Soni N., Liu Y., Larson N. B., Kassmeyer B. A., Mohan S., Roberts-Wolfe D., Rathore S., Lee N. H., Zhang H., Sonka M. and Priya S. AI-based Classification of Three Common Malignant Tumors in Neuro-oncology: A Multi-Institutional Comparison of Machine Learning and Deep Learning Methods. *J Neuroradiol.* 2023 Aug 29; ONLINE AHEAD OF PRINT (PMID: 37652263 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37652263/>

<https://www.sciencedirect.com/science/article/pii/S0150986123002377?via%3Dihub> doi: 10.1016/j.neurad.2023.08.007

Mansoor M., Coussa R. G., Strampe M. R., Larson S. A. and Russell J. F. Xp11.3 microdeletion causing Norrie disease and X-linked Kabuki syndrome. Am J Ophthalmol Case Rep. 2023 Jan;29(PMID: 36703904 PMCID: PMC9871737 url: <https://pubmed.ncbi.nlm.nih.gov/36703904/> doi: 10.1016/j.ajoc.2023.101798

Perez E. A., Ramirez D. A., Peterson J. D., Binkley E. M., Boldt H. C., Gehrs K. M., Han I. C., Russell S. R., Sohn E. H., Larson S. A. and Russell J. F. The Ocular Trauma Score Underestimates Visual Recovery for the Most Severe Open Globe Injuries. Ophthalmol Retina. 2023 Jul;7(7): 612-619. PMID: 36746350 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36746350/> doi: 10.1016/j.oret.2023.01.021

Berry J. L., Pike S., Rajagopalan A., Reid M. W., Fabian I. D., Afshar A. R., Alejos A., Alemany-Rubio E., Carreras Y. A., Arazi M., Astbury N. J., Bascaran C., Binkley E., Blum S., Boldt H. C., Bonanomi M., Bowman R., Brennan R. C., Burton M. J., Calderón-Sotelo P., Jara D. A. C., Cano M. R., Castillo L., Cavieres I., Cerna D. Q., Chandramohan A., Chantada G. L., Corson T. W., Cowan-Lyn K. E., Davanzo J. M., Demirci H., Coronado R. Y. D., Dimaras H., Macedo C. R. D., Erickson C., Fandiño A. C., Fernández D., Foster A., Fu L. D., Fuentes-Alabi S. L., Garcia J. L., Pacheco H. N. G., Girón A. V., Goenz M. A., Gold A. S., Gomel N., Gonzalez E., Perez G. G., González-Rodríguez L., Graells J., Grigorovski N., Hamel P., Hansen E. D., Harbour J. W., Elizabeth Hartnett M., Hassan M., Hubbard G. B., Kapelushnik N., Kim J. W., Larson S. A., Laurenti K. D., Leverant A. A., Li C., López J. P., Luna-Fineman S., Magrath G. N., Mallipatna A., Mattosinho C., Mets M. B., Miller A., Mruthyunjaya P., Murray T. G., Oliver S. C. N., Oporto J., Ortega-Hernández M., Ossandon D., Morales C. R. P., Paton K. E., Plager D. A., Polania R. A., Ponce J., Quintero D. K., Ramasubramanian A., Ramirez-Ortiz M. A., Randhawa J. K., Romero L., Salas B., Sánchez G. L., Orozco A. J. S., Sgroi M., Shah A. S., Shields C. L., Singh A. D., Skalet A. H., Stacey A. W., Stahl E. D., Strahlendorf C., Suarez M. E. C., Superstein R., Leiva F. F. T., Teixeira L. F., Uner O. E., Anchaya J. K. V., Vaughan L. O., Villegas V. M., Wilson M. W., Yaghya A., Yee R. I., López A. M. and Zondervan M. Retinoblastoma Outcomes in the Americas: a prospective analysis of 491 children with retinoblastoma from 23 American countries. Am J Ophthalmol. 2023 Nov 8;ONLINE AHEAD OF PRINT(PMID: 37949286 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37949286/>

<https://www.sciencedirect.com/science/article/pii/S0002939423004609?via%3Dihub> doi: 10.1016/j.ajo.2023.11.004

Robert Mullins

Han I. C., Wiley L. A., Ochoa D., Lang M. J., Harman B. E., Sheehan K. M., Mullins R. F., Stone E. M. and Tucker B. A. Characterization of a novel Pde6b-deficient rat model of retinal degeneration and treatment with adeno-associated virus (AAV) gene therapy. Gene Ther. 2023 Apr;30(3-4): 362-368. PMID: 36175490 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36175490/> doi: 10.1038/s41434-022-00365-y

Bohrer L. R., Stone N. E., Mullin N. K., Voigt A. P., Anfinson K. R., Fick J. L., Luangphakdy V., Hittle B., Powell K., Muschler G. F., Mullins R. F., Stone E. M. and Tucker B. A. Automating iPSC generation to enable autologous photoreceptor cell replacement therapy. J Transl Med. 2023 Feb;21(1): PMID: 36855199 PMCID: PMC9976478 url: <https://pubmed.ncbi.nlm.nih.gov/36855199/> doi: 10.1186/s12967-023-03966-2

Mullin N. K., Voigt A. P., Flamme-Wiese M. J., Liu X., Riker M. J., Varzavand K., Stone E. M., Tucker B. A. and Mullins R. F. Multimodal single-cell analysis of non-random heteroplasmy distribution in human retinal mitochondrial disease. *JCI Insight*. 2023 Jul;8(14): PMID: 37289546 PMCID: PMC10443808 url: <https://pubmed.ncbi.nlm.nih.gov/37289546/> doi: 10.1172/jci.insight.165937

Powell K. A., Bohrer L. R., Stone N. E., Hittle B., Anfinson K. R., Luangphakdy V., Muschler G., Mullins R. F., Stone E. M. and Tucker B. A. Automated human induced pluripotent stem cell colony segmentation for use in cell culture automation applications. *SLAS Technol*. 2023 Jul 14;ONLINE AHEAD OF PRINT(PMID: 37454765 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37454765/>

<https://www.sciencedirect.com/science/article/pii/S247263032300047X?via%3Dihub> doi: 10.1016/j.slast.2023.07.004

Cooke J. A., Voigt A. P., Collingwood M. A., Stone N. E., Whitmore S. S., DeLuca A. P., Burnight E. R., Anfinson K. R., Vakulskas C. A., Reutzel A. J., Daggett H. T., Andorf J. L., Stone E. M., Mullins R. F. and Tucker B. A. Propensity of Patient-Derived iPSCs for Retinal Differentiation: Implications for Autologous Cell Replacement. *Stem Cells Transl Med*. 2023 Jun;12(6): 365-378. PMID: 37221451 PMCID: PMC10267581 url: <https://pubmed.ncbi.nlm.nih.gov/37221451/> doi: 10.1093/stcltm/szad028

Fingert J. H., Hedberg-Buenz A., Evans F., Anderson M. and Mullins R. Differential GABA receptor gene expression and risk for primary open angle glaucoma.

Luu J., Saadane A., Leinonen H., Choi E., Gao F. Y., Lewandowski D., Halabi M., Wu A., Dong Z. Q., Palczewska G., Mullins R., Peachey N. S., Kiser P. D., Tabaka M., Kern T. S. and Palczewski K. Stress resilience-enhancing drugs preserve tissue structure and function in degenerating retina via phosphodiesterase inhibition.

Mullins R. Insights into the Human RPE through Single Cell Multiomic Analysis.

Wiley L. A., Boyce T. M., Meyering E. E., Ochoa D., Sheehan K. M., Stone E., Mullins R. F., Tucker B. A. and Han I. C. The degree of AAV-induced retinal inflammation varies based on serotype and route of delivery: intravitreal, subretinal or suprachoroidal. *Hum Gene Ther*. 2023 Jun;34(11-12): 530-539. PMID: 36793189 PMCID: PMC10282814 url: <https://pubmed.ncbi.nlm.nih.gov/36793189/> doi: 10.1089/hum.2022.222

J C. L., Saadane A., Leinonen H., E H. C., Gao F., Lewandowski D., Halabi M., C L. S., Wu A., Wang J. M., Singh R., Gao S., Lessieur E. M., Dong Z., Palczewska G., Mullins R. F., Peachey N. S., Kiser P. D., Tabaka M., Kern T. S. and Palczewski K. Stress resilience-enhancing drugs preserve tissue structure and function in degenerating retina via phosphodiesterase inhibition. *Proc Natl Acad Sci U S A*. 2023 May;120(19): PMID: 37126699 PMCID: PMC10175720 url: <https://pubmed.ncbi.nlm.nih.gov/37126699/> doi: 10.1073/pnas.2221045120

Bohrer L. R., Stone N. E., Wright A. T., Han S., Sicher I., Sulcek T. A., Mullins R. F. and Tucker B. A. cGMP compliant microfluidic transfection of induced pluripotent stem cells for CRISPR-mediated genome editing. *Stem Cells*. 2023 Nov;41(11): 1037-1046. PMID: 37632456 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37632456/> doi: 10.1093/stmcls/sxad063

Mullin N. K., Voigt A. P., Boese E. A., Liu X., Stone E. M., Tucker B. A. and Mullins R. F. Transcriptomic and chromatin accessibility analysis of the human macular and peripheral retinal

pigment epithelium at the single cell level. Am J Pathol. 2023 Nov;193(11): 1750-1761. PMID: 36775060 PMCID: PMC10616710 url: <https://pubmed.ncbi.nlm.nih.gov/36775060/> doi: 10.1016/j.ajpath.2023.01.012

Voigt A. P., Mullin N. K., Navratil E. M., Flamme-Wiese M. J., Lin L. C., Scheetz T. E., Han I. C., Stone E. M., Tucker B. A. and Mullins R. F. Gene Expression Within a Human Choroidal Neovascular Membrane Using Spatial Transcriptomics. Invest Ophthalmol Vis Sci. 2023 Oct 3;64(13): 40. PMID: 37878301 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37878301/> doi: 10.1167/iovs.64.13.40

Burnight E. R., Fenner B. J., Han I. C., DeLuca A. P., Whitmore S. S., Bohrer L. R., Andorf J. L., Sohn E. H., Mullins R. F., Tucker B. A. and Stone E. M. Demonstration of the pathogenicity of a common non-exomic mutation in ABCA4 using iPSC-derived retinal organoids and retrospective clinical data. Hum Mol Genet. 2023 Oct 31;ONLINE AHEAD OF PRINT(PMID: 37930186 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37930186/> doi: 10.1093/hmg/ddad176

Marcus Noyes

Sindt C. W. and Noyes M. R. Comparison of Two different sets of aberrometer data and methods of orientation, on the same contact lens, with resultant measurements on the same eye.

Thomas A. Oetting

Fortenbach C. R., Skeie J. M., Sevcik K. M., Johnson A. T., Oetting T. A., Haugsdal J. M., Sales C. S., Nishimura D. Y., Taylor E. B., Schmidt G. A. and Greiner M. A. Metabolic and proteomic indications of diabetes progression in human aqueous humor. PLoS One. 2023 Jan;18(1): PMID: 36652491 PMCID: PMC9847982 url: <https://pubmed.ncbi.nlm.nih.gov/36652491/> doi: 10.1371/journal.pone.0280491

Andrew Pouw

Tejan-Kamara A. Z., Boese E. A., Pouw A. E., Sears N. C., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Mutations in EFEMP1 in Patients with Juvenile Open-Angle Glaucoma. Ophthalmol Glaucoma. 2023 Nov-Dec;6(6): 668-670. PMID: 37224920 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37224920/> doi: 10.1016/j.ogla.2023.05.006

Jonathan Russell

Whitmore S. S., DeLuca A. P., Andorf J. L., Cheng J. L., Mansoor M., Fortenbach C. R., Critser D. B., Russell J. F., Stone E. M. and Han I. C. Modeling rod and cone photoreceptor cell survival in vivo using optical coherence tomography. Sci Rep. 2023 Apr;13(1): PMID: 37106000 PMCID: PMC10140056 url: <https://pubmed.ncbi.nlm.nih.gov/37106000/> doi: 10.1038/s41598-023-33694-y

Sevcik K. M., Fortenbach C. R. and Russell J. F. Subacute mycobacterial endophthalmitis after glaucoma valve surgery. *Am J Ophthalmol.* 2023 Feb;246(e3-e4). PMID: 36328201 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36328201/> doi: 10.1016/j.ajo.2022.10.014

Mansoor M., Coussa R. G., Strampe M. R., Larson S. A. and Russell J. F. Xp11.3 microdeletion causing Norrie disease and X-linked Kabuki syndrome. *Am J Ophthalmol Case Rep.* 2023 Jan;29(PMID: 36703904 PMCID: PMC9871737 url: <https://pubmed.ncbi.nlm.nih.gov/36703904/> doi: 10.1016/j.ajoc.2023.101798

Perez E. A., Ramirez D. A., Peterson J. D., Binkley E. M., Boldt H. C., Gehrs K. M., Han I. C., Russell S. R., Sohn E. H., Larson S. A. and Russell J. F. The Ocular Trauma Score Underestimates Visual Recovery for the Most Severe Open Globe Injuries. *Ophthalmol Retina.* 2023 Jul;7(7): 612-619. PMID: 36746350 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36746350/> doi: 10.1016/j.joret.2023.01.021

Fenner B. J., Russell J. F., Drack A. V., Dumitrescu A. V., Sohn E. H., Russell S. R., Boldt H. C., Affatigato L. M., Hoffmann J. M., Andorf J. L., Stone E. M. and Han I. C. Long-term functional and structural outcomes in X-linked retinoschisis: implications for clinical trials. *Front Med (Lausanne).* 2023 Jun;10(PMID: 37396901 PMCID: PMC10310546 url: <https://pubmed.ncbi.nlm.nih.gov/37396901/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10310546/pdf/fmed-10-1204095.pdf> doi: 10.3389/fmed.2023.1204095

Han I. C., Coussa R. G., Mansoor M., Critser D. B., Sohn E. H., Russell J. F. and Stone E. M. Incidence and Risk Factors of Visual Impairment in Patients with Angioid Streaks and Macular NeovascularizationChoroidal Neovascularization Is Common in Best Vitelliform Macular Dystrophy and Plays a Role in Vitelliform Lesion Evolution. *Ophthalmology.* 2023 Jun;130(6): 561-561. PMID: WOS:001074163600009 PMCID: url: <Go to ISI>://WOS:001074163600009 doi:

Han I. C., Coussa R. G., Mansoor M., Critser D. B., Sohn E. H., Russell J. F. and Stone E. M. Choroidal Neovascularization Is Common in Best Vitelliform Macular Dystrophy and Plays a Role in Vitelliform Lesion Evolution. *Ophthalmol Retina.* 2023 May;7(5): 441-449. PMID: 36528270 PMCID: PMC10164042 url: <https://pubmed.ncbi.nlm.nih.gov/36528270/> doi: 10.1016/j.joret.2022.11.014

Stephen R. Russell

Perez E. A., Ramirez D. A., Peterson J. D., Binkley E. M., Boldt H. C., Gehrs K. M., Han I. C., Russell S. R., Sohn E. H., Larson S. A. and Russell J. F. The Ocular Trauma Score Underestimates Visual Recovery for the Most Severe Open Globe Injuries. *Ophthalmol Retina.* 2023 Jul;7(7): 612-619. PMID: 36746350 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36746350/> doi: 10.1016/j.joret.2023.01.021

Fenner B. J., Russell J. F., Drack A. V., Dumitrescu A. V., Sohn E. H., Russell S. R., Boldt H. C., Affatigato L. M., Hoffmann J. M., Andorf J. L., Stone E. M. and Han I. C. Long-term functional and structural outcomes in X-linked retinoschisis: implications for clinical trials. *Front Med*

(Lausanne). 2023 Jun;10(PMID: 37396901 PMCID: PMC10310546 url: <https://pubmed.ncbi.nlm.nih.gov/37396901/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10310546/pdf/fmed-10-1204095.pdf> doi: 10.3389/fmed.2023.1204095

Christopher Sales

Ramirez D. A., Walling A. L., Fortenbach C. R., Witsberger E., Frey K., Jiang L., Syed N. A., Zimmerman M. B., Greiner M. A. and Sales C. S. Risk Factors for Fibrous Ingrowth in Eyes Requiring Primary Keratoplasty. *Cornea*. 2023 Dec;42(12): 1476-1481. PMID: 37647130 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37647130/> doi: 10.1097/ico.0000000000000326

Fortenbach C. R., Skeie J. M., Sevcik K. M., Johnson A. T., Oetting T. A., Haugsdal J. M., Sales C. S., Nishimura D. Y., Taylor E. B., Schmidt G. A. and Greiner M. A. Metabolic and proteomic indications of diabetes progression in human aqueous humor. *PLoS One*. 2023 Jan;18(1): PMID: 36652491 PMCID: PMC9847982 url: <https://pubmed.ncbi.nlm.nih.gov/36652491/> doi: 10.1371/journal.pone.0280491

Kingsbury K. D., Skeie J. M., Cosert K., Schmidt G. A., Aldrich B. T., Sales C. S., Weller J., Kruse F., Thomasy S. M., Schlotzter-Schrehardt U. and Greiner M. A. Type II Diabetes Mellitus Causes Extracellular Matrix Alterations in the Posterior Cornea That Increase Graft Thickness and Rigidity. *Invest Ophthalmol Vis Sci*. 2023 Jun;64(7): PMID: 37326594 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37326594/> doi: 10.1167/iovs.64.7.26

Todd E. Scheetz

Boese E. A., Alward W. L. M., Kwon Y. H., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Thrombospondin Mutations and Primary Congenital Glaucoma Patients in a United States Population. *J Glaucoma*. 2023 Nov;32(11): e156-e160. PMID: 37327471 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37327471/> doi: 10.1097/ijg.0000000000002254

Tejan-Kamara A. Z., Boese E. A., Pouw A. E., Sears N. C., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Mutations in EFEMP1 in Patients with Juvenile Open-Angle Glaucoma. *Ophthalmol Glaucoma*. 2023 Nov-Dec;6(6): 668-670. PMID: 37224920 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37224920/> doi: 10.1016/j.ogla.2023.05.006

Voigt A. P., Mullin N. K., Navratil E. M., Flamme-Wiese M. J., Lin L. C., Scheetz T. E., Han I. C., Stone E. M., Tucker B. A. and Mullins R. F. Gene Expression Within a Human Choroidal Neovascular Membrane Using Spatial Transcriptomics. *Invest Ophthalmol Vis Sci*. 2023 Oct 3;64(13): 40. PMID: 37878301 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37878301/> doi: 10.1167/iovs.64.13.40

Boese E. A., Drack A. V., Roos B. R., Alward W. L. M., Tollefson M. R., Schnieders M. J., Scheetz T. E., Boldt H. C., Stone E. M. and Fingert J. H. GJA3 Genetic Variation and Autosomal Dominant Congenital Cataracts and Glaucoma Following Cataract Surgery. *JAMA Ophthalmol*. 2023

Sep;141(9): 872-879. PMID: 37589989 PMCID: PMC10436186 url:
<https://pubmed.ncbi.nlm.nih.gov/37589989/>

https://jamanetwork.com/journals/jamaophthalmology/articlepdf/2808415/jamaophthalmology_boese_2023_oi_230046_1694029114.14189.pdf doi: 10.1001/jamaophthalmol.2023.3535

Nathaniel Sears

Tejan-Kamara A. Z., Boese E. A., Pouw A. E., Sears N. C., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Mutations in EFEMP1 in Patients with Juvenile Open-Angle Glaucoma. Ophthalmol Glaucoma. 2023 Nov-Dec;6(6): 668-670. PMID: 37224920 PMCID: url:
<https://pubmed.ncbi.nlm.nih.gov/37224920/> doi: 10.1016/j.ogla.2023.05.006

Seongjin Seo

Hsu Y., Bhattacharai S., Thompson J. M., Mahoney A., Thomas J., Mayer S. K., Datta P., Garrison J., Searby C. C., Vandenberghe L. H., Seo S., Sheffield V. C. and Drack A. V. Subretinal gene therapy delays vision loss in a Bardet-Biedl Syndrome type 10 mouse model. Mol Ther Nucleic Acids. 2023 Mar;31(164-181). PMID: 36700052 PMCID: PMC9841241 url:
<https://pubmed.ncbi.nlm.nih.gov/36700052/> doi: 10.1016/j.omtn.2022.12.007

Erin Shriver

Keen J. A., Fisher M. D., Yu C. Y., Swick B. L. and Shrimer E. M. Elevated Intraocular Pressure in Periorbital Sweet's Syndrome. Ophthalmic Plast Reconstr Surg. 2023 Jul-Aug;39(4): e115-e117. PMID: 36893059 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36893059/> doi: 10.1097/iop.00000000000002373

Tran C., Choi D., Wang K., Carter K. D., Ko A. C. and Shrimer E. M. Trends in Horizontal Periorbital Asymmetry. Can J Ophthalmol. 2023 Jun;58(3): 229-234. PMID: 34921767 PMCID: url:
<https://pubmed.ncbi.nlm.nih.gov/34921767/>

<https://www.sciencedirect.com/science/article/pii/S0008418221004014?via%3Dihub> doi: 10.1016/j.jcjo.2021.11.004

Yom K. H., Simmons B. A., Pesce L. M., Warner L. L., Fuhrmeister L. J., Kemp P. S., Carter K. D. and Shrimer E. M. Echographic characterization of extraocular muscles in pediatric patients with thyroid dysfunction. Orbit. 2023 Jun 20;ONLINE AHEAD OF PRINT(1-7. PMID: 37338122 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37338122/> doi: 10.1080/01676830.2023.2217510

Christine Sindt

Neal D. R., Sindt C. W. and Xiao X. F. Optical severity metrics for wavefront guided scleral lens treatment.

Sindt C. W. and Noyes M. R. Comparison of Two different sets of aberrometer data and methods of orientation, on the same contact lens, with resultant measurements on the same eye.

Elliott Sohn

Fortenbach C. R., Whitmore S. S., Thurtell M. J., Sohn E. H., Critser D. B., Stone E. M., Folk J. C., Han I. C. and Boyce T. M. Retinal Sublayer Analysis in Autoimmune Retinopathy and Identification of New Optical Coherence Tomography Phenotypes. *Ocul Immunol Inflamm.* 2023 Apr;ONLINE AHEAD OF PRINT(1-8. PMID: 37084288 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37084288/> doi: 10.1080/09273948.2023.2199334

Perez E. A., Ramirez D. A., Peterson J. D., Binkley E. M., Boldt H. C., Gehrs K. M., Han I. C., Russell S. R., Sohn E. H., Larson S. A. and Russell J. F. The Ocular Trauma Score Underestimates Visual Recovery for the Most Severe Open Globe Injuries. *Ophthalmol Retina.* 2023 Jul;7(7): 612-619. PMID: 36746350 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36746350/> doi: 10.1016/j.oret.2023.01.021

Ricca A. M., Han I. C., Hoffman J., Stone E. M. and Sohn E. H. Macular Atrophy and Phenotypic Variability in Autosomal Dominant Stargardt-like Macular Dystrophy due to PROM1 mutation. *Retina.* 2023 Jul;43(7): 1165-1173. PMID: 36930890 PMCID: PMC10278565 url: <https://pubmed.ncbi.nlm.nih.gov/36930890/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10278565/pdf/retina-43-1165.pdf> doi: 10.1097/iae.0000000000003784

Fenner B. J., Russell J. F., Drack A. V., Dumitrescu A. V., Sohn E. H., Russell S. R., Boldt H. C., Affatigato L. M., Hoffmann J. M., Andorf J. L., Stone E. M. and Han I. C. Long-term functional and structural outcomes in X-linked retinoschisis: implications for clinical trials. *Front Med (Lausanne).* 2023 Jun;10(PMID: 37396901 PMCID: PMC10310546 url: <https://pubmed.ncbi.nlm.nih.gov/37396901/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10310546/pdf/fmed-10-1204095.pdf> doi: 10.3389/fmed.2023.1204095

Han I. C., Coussa R. G., Mansoor M., Critser D. B., Sohn E. H., Russell J. F. and Stone E. M. Incidence and Risk Factors of Visual Impairment in Patients with Angioid Streaks and Macular NeovascularizationChoroidal Neovascularization Is Common in Best Vitelliform Macular Dystrophy and Plays a Role in Vitelliform Lesion Evolution. *Ophthalmology.* 2023 Jun;130(6): 561-561. PMID: WOS:001074163600009 PMCID: url: <Go to ISI>;//WOS:001074163600009 doi:

Han I. C., Coussa R. G., Mansoor M., Critser D. B., Sohn E. H., Russell J. F. and Stone E. M. Choroidal Neovascularization Is Common in Best Vitelliform Macular Dystrophy and Plays a Role in Vitelliform Lesion Evolution. *Ophthalmol Retina.* 2023 May;7(5): 441-449. PMID: 36528270 PMCID: PMC10164042 url: <https://pubmed.ncbi.nlm.nih.gov/36528270/> doi: 10.1016/j.oret.2022.11.014

Burnight E. R., Fenner B. J., Han I. C., DeLuca A. P., Whitmore S. S., Bohrer L. R., Andorf J. L., Sohn E. H., Mullins R. F., Tucker B. A. and Stone E. M. Demonstration of the pathogenicity of a common non-exomic mutation in ABCA4 using iPSC-derived retinal organoids and retrospective clinical data. *Hum Mol Genet.* 2023 Oct 31;ONLINE AHEAD OF PRINT(PMID: 37930186 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37930186/> doi: 10.1093/hmg/ddad176

Park J. G., Adrean S. D., Begaj T., Capone A., Jr., Charles S., Chen S. N., Chou H. D., Cohen M. N., Corona S. T., Faia L. J., Garg S. J., Garretson B. R., Gregori N. Z., Haller J. A., Houghton O. M., Hsu J., Jo J., Kaiser R. S., Lai C. C., Mahgoub M. M., Mansoor M., Matoba R., Morizane Y., Nehemy M. B., Raphaelian P. V., Regillo C. D., Ruby A. J., Runner M. M., Sneed S. R., Sohn E. H., Spirn M. J., Vander J. F., Wakabayashi T., Wolfe J. D., Wykoff C. C., Yonekawa Y., Yoon Y. H. and Mahmoud T. H. Surgical Management of Full Thickness Macular Holes in Macular Telangiectasia Type 2.A Global Multicenter Study. *Ophthalmology*. 2023 Sep 1;ONLINE AHEAD OF PRINT(PMID: 37661066 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37661066/>

<https://www.sciencedirect.com/science/article/pii/S0161642023006243?via%3Dihub> doi: 10.1016/j.ophtha.2023.08.025

Edwin M. Stone

Fortenbach C. R., Whitmore S. S., Thurtell M. J., Sohn E. H., Critser D. B., Stone E. M., Folk J. C., Han I. C. and Boyce T. M. Retinal Sublayer Analysis in Autoimmune Retinopathy and Identification of New Optical Coherence Tomography Phenotypes. *Ocul Immunol Inflamm*. 2023 Apr;ONLINE AHEAD OF PRINT(1-8. PMID: 37084288 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37084288/> doi: 10.1080/09273948.2023.2199334

Han I. C., Wiley L. A., Ochoa D., Lang M. J., Harman B. E., Sheehan K. M., Mullins R. F., Stone E. M. and Tucker B. A. Characterization of a novel Pde6b-deficient rat model of retinal degeneration and treatment with adeno-associated virus (AAV) gene therapy. *Gene Ther.* 2023 Apr;30(3-4): 362-368. PMID: 36175490 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36175490/> doi: 10.1038/s41434-022-00365-y

Whitmore S. S., DeLuca A. P., Andorf J. L., Cheng J. L., Mansoor M., Fortenbach C. R., Critser D. B., Russell J. F., Stone E. M. and Han I. C. Modeling rod and cone photoreceptor cell survival in vivo using optical coherence tomography. *Sci Rep.* 2023 Apr;13(1): PMID: 37106000 PMCID: PMC10140056 url: <https://pubmed.ncbi.nlm.nih.gov/37106000/> doi: 10.1038/s41598-023-33694-y

Bohrer L. R., Stone N. E., Mullin N. K., Voigt A. P., Anfinson K. R., Fick J. L., Luangphakdy V., Hittle B., Powell K., Muschler G. F., Mullins R. F., Stone E. M. and Tucker B. A. Automating iPSC generation to enable autologous photoreceptor cell replacement therapy. *J Transl Med.* 2023 Feb;21(1): PMID: 36855199 PMCID: PMC9976478 url: <https://pubmed.ncbi.nlm.nih.gov/36855199/> doi: 10.1186/s12967-023-03966-2

Asumda F. Z., Kraker J. A., Thomas S. C., Maleszewski J., Stone E. M., Lanpher B. C. and Schimmenti L. A. Left-sided valvular heart disease and retinopathy in a 38-year-old woman with attenuated mucopolysaccharidosis: a case report. *Ther Adv Rare Dis.* 2023 Jan;4(PMID: 37181073 PMCID: PMC10032445 url: <https://pubmed.ncbi.nlm.nih.gov/37181073/> doi: 10.1177/26330040221145945

Mullin N. K., Voigt A. P., Flamme-Wiese M. J., Liu X., Riker M. J., Varzavand K., Stone E. M., Tucker B. A. and Mullins R. F. Multimodal single-cell analysis of non-random heteroplasmy distribution in human retinal mitochondrial disease. *JCI Insight*. 2023 Jul;8(14): PMID: 37289546 PMCID: PMC10443808 url: <https://pubmed.ncbi.nlm.nih.gov/37289546/> doi: 10.1172/jci.insight.165937

Ricca A. M., Han I. C., Hoffman J., Stone E. M. and Sohn E. H. Macular Atrophy and Phenotypic Variability in Autosomal Dominant Stargardt-like Macular Dystrophy due to PROM1 mutation. *Retina*. 2023 Jul;43(7): 1165-1173. PMID: 36930890 PMCID: PMC10278565 url: <https://pubmed.ncbi.nlm.nih.gov/36930890/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10278565/pdf/retina-43-1165.pdf> doi: 10.1097/iae.0000000000003784

Powell K. A., Bohrer L. R., Stone N. E., Hittle B., Anfinson K. R., Luangphakdy V., Muschler G., Mullins R. F., Stone E. M. and Tucker B. A. Automated human induced pluripotent stem cell colony segmentation for use in cell culture automation applications. *SLAS Technol*. 2023 Jul 14;ONLINE AHEAD OF PRINT(PMID: 37454765 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37454765/>

<https://www.sciencedirect.com/science/article/pii/S247263032300047X?via%3Dihub> doi: 10.1016/j.slast.2023.07.004

Cooke J. A., Voigt A. P., Collingwood M. A., Stone N. E., Whitmore S. S., DeLuca A. P., Burnight E. R., Anfinson K. R., Vakulskas C. A., Reutzel A. J., Daggett H. T., Andorf J. L., Stone E. M., Mullins R. F. and Tucker B. A. Propensity of Patient-Derived iPSCs for Retinal Differentiation: Implications for Autologous Cell Replacement. *Stem Cells Transl Med*. 2023 Jun;12(6): 365-378. PMID: 37221451 PMCID: PMC10267581 url: <https://pubmed.ncbi.nlm.nih.gov/37221451/> doi: 10.1093/stcltm/szad028

Fenner B. J., Russell J. F., Drack A. V., Dumitrescu A. V., Sohn E. H., Russell S. R., Boldt H. C., Affatigato L. M., Hoffmann J. M., Andorf J. L., Stone E. M. and Han I. C. Long-term functional and structural outcomes in X-linked retinoschisis: implications for clinical trials. *Front Med* (Lausanne). 2023 Jun;10(PMID: 37396901 PMCID: PMC10310546 url: <https://pubmed.ncbi.nlm.nih.gov/37396901/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10310546/pdf/fmed-10-1204095.pdf> doi: 10.3389/fmed.2023.1204095

Han I. C., Coussa R. G., Mansoor M., Critser D. B., Sohn E. H., Russell J. F. and Stone E. M. Incidence and Risk Factors of Visual Impairment in Patients with Angioid Streaks and Macular NeovascularizationChoroidal Neovascularization Is Common in Best Vitelliform Macular Dystrophy and Plays a Role in Vitelliform Lesion Evolution. *Ophthalmology*. 2023 Jun;130(6): 561-561. PMID: WOS:001074163600009 PMCID: url: <Go to ISI>://WOS:001074163600009 doi:

Wiley L. A., Boyce T. M., Meyering E. E., Ochoa D., Sheehan K. M., Stone E., Mullins R. F., Tucker B. A. and Han I. C. The degree of AAV-induced retinal inflammation varies based on serotype and route of delivery: intravitreal, subretinal or suprachoroidal. *Hum Gene Ther*. 2023 Jun;34(11-12): 530-539. PMID: 36793189 PMCID: PMC10282814 url: <https://pubmed.ncbi.nlm.nih.gov/36793189/> doi: 10.1089/hum.2022.222

Han I. C., Coussa R. G., Mansoor M., Critser D. B., Sohn E. H., Russell J. F. and Stone E. M. Choroidal Neovascularization Is Common in Best Vitelliform Macular Dystrophy and Plays a Role in Vitelliform Lesion Evolution. *Ophthalmol Retina*. 2023 May;7(5): 441-449. PMID: 36528270 PMCID: PMC10164042 url: <https://pubmed.ncbi.nlm.nih.gov/36528270/> doi: 10.1016/j.joret.2022.11.014

Boese E. A., Alward W. L. M., Kwon Y. H., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Thrombospondin Mutations and Primary Congenital Glaucoma Patients in a United States Population. *J Glaucoma*. 2023 Nov;32(11): e156-e160. PMID: 37327471 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37327471/> doi: 10.1097/jtg.0000000000002254

Bohrer L. R., Stone N. E., Wright A. T., Han S., Sicher I., Sulcik T. A., Mullins R. F. and Tucker B. A. CGMP compliant microfluidic transfection of induced pluripotent stem cells for CRISPR-mediated genome editing. *Stem Cells*. 2023 Nov;41(11): 1037-1046. PMID: 37632456 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37632456/> doi: 10.1093/stmcls/sxad063

Mullin N. K., Voigt A. P., Boese E. A., Liu X., Stone E. M., Tucker B. A. and Mullins R. F. Transcriptomic and chromatin accessibility analysis of the human macular and peripheral retinal pigment epithelium at the single cell level. *Am J Pathol*. 2023 Nov;193(11): 1750-1761. PMID: 36775060 PMCID: PMC10616710 url: <https://pubmed.ncbi.nlm.nih.gov/36775060/> doi: 10.1016/j.ajpath.2023.01.012

Tejan-Kamara A. Z., Boese E. A., Pouw A. E., Sears N. C., Roos B. R., Stone E. M., Scheetz T. E. and Fingert J. H. Mutations in EFEMP1 in Patients with Juvenile Open-Angle Glaucoma. *Ophthalmol Glaucoma*. 2023 Nov-Dec;6(6): 668-670. PMID: 37224920 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37224920/> doi: 10.1016/j.ogla.2023.05.006

Voigt A. P., Mullin N. K., Navratil E. M., Flamme-Wiese M. J., Lin L. C., Scheetz T. E., Han I. C., Stone E. M., Tucker B. A. and Mullins R. F. Gene Expression Within a Human Choroidal Neovascular Membrane Using Spatial Transcriptomics. *Invest Ophthalmol Vis Sci*. 2023 Oct 3;64(13): 40. PMID: 37878301 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37878301/> doi: 10.1167/iovs.64.13.40

Abramoff M. D., Whitestone N., Patnaik J. L., Rich E., Ahmed M., Husain L., Hassan M. Y., Tanjil M. S. H., Weitzman D., Dai T., Wagner B. D., Cherwek D. H., Congdon N. and Islam K. Autonomous artificial intelligence increases real-world specialist clinic productivity in a cluster-randomized trial. *NPJ Digit Med*. 2023 Oct 4;6(1): 184. PMID: 37794054 PMCID: PMC10550906 url: <https://pubmed.ncbi.nlm.nih.gov/37794054/>

<https://www.nature.com/articles/s41746-023-00931-7.pdf> doi: 10.1038/s41746-023-00931-7

Burnight E. R., Fenner B. J., Han I. C., DeLuca A. P., Whitmore S. S., Bohrer L. R., Andorf J. L., Sohn E. H., Mullins R. F., Tucker B. A. and Stone E. M. Demonstration of the pathogenicity of a common non-exomic mutation in ABCA4 using iPSC-derived retinal organoids and retrospective clinical data. *Hum Mol Genet*. 2023 Oct 31;ONLINE AHEAD OF PRINT(PMID: 37930186 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37930186/> doi: 10.1093/hmg/ddad176

Boese E. A., Drack A. V., Roos B. R., Alward W. L. M., Tollefson M. R., Schnieders M. J., Scheetz T. E., Boldt H. C., Stone E. M. and Fingert J. H. GJA3 Genetic Variation and Autosomal Dominant Congenital Cataracts and Glaucoma Following Cataract Surgery. *JAMA Ophthalmol*. 2023 Sep;141(9): 872-879. PMID: 37589989 PMCID: PMC10436186 url: <https://pubmed.ncbi.nlm.nih.gov/37589989/>

https://jamanetwork.com/journals/jamaophthalmology/articlepdf/2808415/jamaophthalmology_boese_2023_oi_230046_1694029114.14189.pdf doi: 10.1001/jamaophthalmol.2023.3535

Nasreen A. Syed

Ramirez D. A., Walling A. L., Fortenbach C. R., Witsberger E., Frey K., Jiang L., Syed N. A., Zimmerman M. B., Greiner M. A. and Sales C. S. Risk Factors for Fibrous Ingrowth in Eyes Requiring Primary Keratoplasty. *Cornea*. 2023 Dec;42(12): 1476-1481. PMID: 37647130 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37647130/> doi: 10.1097/ico.00000000000003326

Matthew J. Thurtell

Fortenbach C. R., Whitmore S. S., Thurtell M. J., Sohn E. H., Critser D. B., Stone E. M., Folk J. C., Han I. C. and Boyce T. M. Retinal Sublayer Analysis in Autoimmune Retinopathy and Identification of New Optical Coherence Tomography Phenotypes. *Ocul Immunol Inflamm*. 2023 Apr;ONLINE AHEAD OF PRINT(1-8. PMID: 37084288 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37084288/> doi: 10.1080/09273948.2023.2199334

Budd A. Tucker

Han I. C., Wiley L. A., Ochoa D., Lang M. J., Harman B. E., Sheehan K. M., Mullins R. F., Stone E. M. and Tucker B. A. Characterization of a novel Pde6b-deficient rat model of retinal degeneration and treatment with adeno-associated virus (AAV) gene therapy. *Gene Ther*. 2023 Apr;30(3-4): 362-368. PMID: 36175490 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36175490/> doi: 10.1038/s41434-022-00365-y

Bohrer L. R., Stone N. E., Mullin N. K., Voigt A. P., Anfinson K. R., Fick J. L., Luangphakdy V., Hittle B., Powell K., Muschler G. F., Mullins R. F., Stone E. M. and Tucker B. A. Automating iPSC generation to enable autologous photoreceptor cell replacement therapy. *J Transl Med*. 2023 Feb;21(1): PMID: 36855199 PMCID: PMC9976478 url: <https://pubmed.ncbi.nlm.nih.gov/36855199/> doi: 10.1186/s12967-023-03966-2

Mullin N. K., Voigt A. P., Flamme-Wiese M. J., Liu X., Riker M. J., Varzavand K., Stone E. M., Tucker B. A. and Mullins R. F. Multimodal single-cell analysis of non-random heteroplasmy distribution in human retinal mitochondrial disease. *JCI Insight*. 2023 Jul;8(14): PMID: 37289546 PMCID: PMC10443808 url: <https://pubmed.ncbi.nlm.nih.gov/37289546/> doi: 10.1172/jci.insight.165937

Powell K. A., Bohrer L. R., Stone N. E., Hittle B., Anfinson K. R., Luangphakdy V., Muschler G., Mullins R. F., Stone E. M. and Tucker B. A. Automated human induced pluripotent stem cell colony segmentation for use in cell culture automation applications. *SLAS Technol*. 2023 Jul 14;ONLINE AHEAD OF PRINT(PMID: 37454765 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37454765/>

<https://www.sciencedirect.com/science/article/pii/S247263032300047X?via%3Dihub> doi: 10.1016/j.slast.2023.07.004

Cooke J. A., Voigt A. P., Collingwood M. A., Stone N. E., Whitmore S. S., DeLuca A. P., Burnight E. R., Anfinson K. R., Vakulskas C. A., Reutzel A. J., Daggett H. T., Andorf J. L., Stone E. M., Mullins R. F. and Tucker B. A. Propensity of Patient-Derived iPSCs for Retinal Differentiation: Implications for Autologous Cell Replacement. *Stem Cells Transl Med*. 2023 Jun;12(6): 365-378. PMID: 37221451

PMCID: PMC10267581 url: <https://pubmed.ncbi.nlm.nih.gov/37221451/> doi: 10.1093/stcltm/szad028

Wiley L. A., Boyce T. M., Meyering E. E., Ochoa D., Sheehan K. M., Stone E., Mullins R. F., Tucker B. A. and Han I. C. The degree of AAV-induced retinal inflammation varies based on serotype and route of delivery: intravitreal, subretinal or suprachoroidal. *Hum Gene Ther.* 2023 Jun;34(11-12): 530-539. PMID: 36793189 PMCID: PMC10282814 url: <https://pubmed.ncbi.nlm.nih.gov/36793189/> doi: 10.1089/hum.2022.222

Fortress A. M., Miyagishima K. J., Reed A. A., Temple S., Clegg D. O., Tucker B. A., Blenkinsop T. A., Harb G., Greenwell T. N., Ludwig T. E. and Bharti K. Stem cell sources and characterization in the development of cell-based products for treating retinal disease: An NEI Town Hall report. *Stem Cell Res Ther.* 2023 Mar;14(1): PMID: 36978104 PMCID: PMC10053463 url: <https://pubmed.ncbi.nlm.nih.gov/36978104/> doi: 10.1186/s13287-023-03282-y

Allen B. N., Wendland R. J., Thompson J. D., Tucker B. A. and Worthington K. S. Photopolymerization Parameters Influence Mechanical, Microstructural, and Cell Loading Properties of Rapidly Fabricated Cell Scaffolds. *ACS Biomater Sci Eng.* 2023 May;9(5): 2663-2671. PMID: 37075323 PMCID: PMC10170473 url: <https://pubmed.ncbi.nlm.nih.gov/37075323/> doi: 10.1021/acsbiomaterials.3c00408

Bohrer L. R., Stone N. E., Wright A. T., Han S., Sicher I., Sulchek T. A., Mullins R. F. and Tucker B. A. CGMP compliant microfluidic transfection of induced pluripotent stem cells for CRISPR-mediated genome editing. *Stem Cells.* 2023 Nov;41(11): 1037-1046. PMID: 37632456 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37632456/> doi: 10.1093/stmcls/sxad063

Mullin N. K., Voigt A. P., Boese E. A., Liu X., Stone E. M., Tucker B. A. and Mullins R. F. Transcriptomic and chromatin accessibility analysis of the human macular and peripheral retinal pigment epithelium at the single cell level. *Am J Pathol.* 2023 Nov;193(11): 1750-1761. PMID: 36775060 PMCID: PMC10616710 url: <https://pubmed.ncbi.nlm.nih.gov/36775060/> doi: 10.1016/j.ajpath.2023.01.012

Voigt A. P., Mullin N. K., Navratil E. M., Flamme-Wiese M. J., Lin L. C., Scheetz T. E., Han I. C., Stone E. M., Tucker B. A. and Mullins R. F. Gene Expression Within a Human Choroidal Neovascular Membrane Using Spatial Transcriptomics. *Invest Ophthalmol Vis Sci.* 2023 Oct 3;64(13): 40. PMID: 37878301 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37878301/> doi: 10.1167/iovs.64.13.40

Burnight E. R., Fenner B. J., Han I. C., DeLuca A. P., Whitmore S. S., Bohrer L. R., Andorf J. L., Sohn E. H., Mullins R. F., Tucker B. A. and Stone E. M. Demonstration of the pathogenicity of a common non-exomic mutation in ABCA4 using iPSC-derived retinal organoids and retrospective clinical data. *Hum Mol Genet.* 2023 Oct 31;ONLINE AHEAD OF PRINT(PMID: 37930186 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37930186/> doi: 10.1093/hmg/ddad176

Michael Wall

O'Driscoll E., Hughes E., Irnaten M., Kuehn M., Wallace D. and O'Brien C. Role of Epithelial-to-Mesenchymal Transition of Retinal Pigment Epithelial Cells in Glaucoma Cupping. *J Clin Med.* 2023 Apr;12(7): PMID: 37048820 PMCID: PMC10095336 url: <https://pubmed.ncbi.nlm.nih.gov/37048820/> doi: 10.3390/jcm12072737

Ramirez D. A., Walling A. L., Fortenbach C. R., Witsberger E., Frey K., Jiang L., Syed N. A., Zimmerman M. B., Greiner M. A. and Sales C. S. Risk Factors for Fibrous Ingrowth in Eyes Requiring Primary Keratoplasty. *Cornea*. 2023 Dec;42(12): 1476-1481. PMID: 37647130 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37647130/> doi: 10.1097/ico.00000000000003326

Sabharwal J., Hou K., Herbert P., Bradley C., Johnson C. A., Wall M., Ramulu P. Y., Unberath M. and Yohannan J. A deep learning model incorporating spatial and temporal information successfully detects visual field worsening using a consensus based approach. *Sci Rep.* 2023 Jan;13(1): PMID: 36658309 PMCID: PMC9852268 url: <https://pubmed.ncbi.nlm.nih.gov/36658309/> doi: 10.1038/s41598-023-28003-6

Wijayagunaratne A., Linton E., Franch I. M., Alawa K. and Wall M. Smartphone Perimetry: Comparison to Standard Automated Perimetry and Assessment of Size-Modulation Strategy with Frequency-Of-Seeing Curves in Healthy Subjects.

Hou K., Bradley C., Herbert P., Johnson C., Wall M., Ramulu P. Y., Unberath M. and Yohannan J. Predicting Visual Field Worsening with Longitudinal Optical Coherence Tomography Data Using a Gated Transformer Network (OPHTHA-D-22-01964)s. *Ophthalmology*. 2023 Mar;130(8): 854-862. PMID: 37003520 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37003520/>

<https://www.sciencedirect.com/science/article/pii/S0161642023001963?via%3Dihub> doi: 10.1016/j.ophtha.2023.03.019

Derdeyn C. P. and Wall M. Counterpoint: stenting for idiopathic intracranial hypertension should be trialed. *J Neurointerv Surg.* 2023 Nov;15(11): 1063-1064. PMID: 37344173 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37344173/> doi: 10.1136/jnis-2023-020404

Heinzman Z., Linton E., Marín-Franch I., Turpin A., Alawa K., Wijayagunaratne A. and Wall M. Validation of the Iowa Head-Mounted Open-Source Perimeter. *Transl Vis Sci Technol.* 2023 Sep 1;12(9): 19. PMID: 37747414 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/37747414/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10528495/pdf/tvst-12-9-19.pdf> doi: 10.1167/tvst.12.9.19

Luke Wiley

Han I. C., Wiley L. A., Ochoa D., Lang M. J., Harman B. E., Sheehan K. M., Mullins R. F., Stone E. M. and Tucker B. A. Characterization of a novel Pde6b-deficient rat model of retinal degeneration and treatment with adeno-associated virus (AAV) gene therapy. *Gene Ther.* 2023 Apr;30(3-4): 362-368. PMID: 36175490 PMCID: url: <https://pubmed.ncbi.nlm.nih.gov/36175490/> doi: 10.1038/s41434-022-00365-y

Wiley L. A., Boyce T. M., Meyering E. E., Ochoa D., Sheehan K. M., Stone E., Mullins R. F., Tucker B. A. and Han I. C. The degree of AAV-induced retinal inflammation varies based on serotype and route of delivery: intravitreal, subretinal or suprachoroidal. *Hum Gene Ther.* 2023 Jun;34(11-12): 530-539. PMID: 36793189 PMCID: PMC10282814 url: <https://pubmed.ncbi.nlm.nih.gov/36793189/> doi: 10.1089/hum.2022.222