



## Vinit B. Mahajan, MD, PhD

Professor of Ophthalmology

### CONTACT INFORMATION

- **ADMINISTRATIVE CONTACT (No clinic appointments)**

Sara Horca

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**Tel** 650-497-1182

### Bio

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#### BIO

Dr. Mahajan is a Professor and vitreoretinal surgeon and scientist in the Department of Ophthalmology at Stanford University. He directs the NIH-funded Molecular Surgery and Omics Laboratory that uses high-throughput methods in genomics, proteomics, and phenomics to identify molecules involved in vitreoretinal disease.

His research team discovered the first gene to cause non syndromic uveitis and is now using protein crystallography to design therapeutic inhibitors for calpain-5. Mahajan and his team performed the first CRISPR gene editing therapy for eye disease in human stem cells. They have also created in vivo models for diabetic retinopathy and uveitis.

Using translational proteomics, Mahajan's multidisciplinary team is developing new precision health approaches using molecular biomarkers to diagnose retinal disease, select personalized therapies, and decode the anatomic structures of the human eye.

Dr. Mahajan has trained numerous surgical fellows that now operate around the world. He has developed enhanced surgeries for complex cases of retinal detachment, macular hole, macular edema, diabetes, macular degeneration, proliferative vitreoretinopathy, optic maculopathy, uveitis, and others. He has identified safer approaches for vitreoretinal surgery in children and adults, and provides second opinions for complex cases. Dr. Mahajan is among only a handful of surgeons to perform human gene therapy for retinal disease. He has published new surgical biomarker studies that are the first to use personalized proteomics to precisely diagnose and treat otherwise problematic retinal diseases.

Dr. Mahajan earned his bachelor's degree in Molecular and Cell Biology at the University of California, Berkeley. He then entered the Medical Scientist Training Program at the University of California, Irvine. Upon completion, he joined the residency program at the Jules Stein Eye Institute at the University of California, Los Angeles. At UCLA he completed post doctoral laboratory research as an EyeSTAR Fellow. He next specialized in vitreoretinal diseases and surgery at the University of Iowa's Retina Fellowship Program and joined as faculty in 2008. He joined Stanford University in 2017.

## ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Ophthalmology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H
- Member, Wu Tsai Neurosciences Institute

## ADMINISTRATIVE APPOINTMENTS

- Vice Chair for Research, Department of Ophthalmology, (2019- present)

## HONORS AND AWARDS

- 16th Straatsma Lecturer Award, Stein Eye Institute, UCLA (2018)
- Alumni Achievement Award, Fight for Sight (2017)
- Staff Student Volunteer Supervisor Leadership Award, University of Iowa (2015)
- Clinician Scientist Award, Doris Duke Charitable Foundation (2013)
- Doris Duke Physician Scientist Fellowship, Doris Duke Foundation (2013)
- P.J. Leinfelder Research Award, University of Iowa (2008)
- Heed Fellowship Merit Award, Heed Foundation (2006)
- Nesburn Resident Research Award, UCLA (2006)
- Giannini Foundation Fellowship Award, Giannini Foundation (2005)

## LINKS

- Mahajan lab: <https://mahajanlab.stanford.edu>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our focus is the development of personalized medicine for eye diseases through translation of our discoveries in proteomics, genomics, and phenomics in humans, mice and tissue culture models.

My laboratory team is composed of scientists, surgeons, engineers, and students who are dedicated to curing blindness. We use high-throughput technologies (proteomics, genomics, phenomics) to identify candidate disease molecules. These are validated using biochemistry, tissue culture, and animal models. The findings are then directly translated into personalized medical therapies in humans. Major projects include: 1. Proteomics of vitreoretinal disease. 2. Protein biomarkers and therapeutics for uveal melanoma. 3. Drug development for inflammation. 4. Gene therapy for eye disease.

We identified CAPN5 as the first gene to cause uveitis. The gene encodes the calcium-activated cysteine protease. We are investigating the structure-function effects of mutations on its crystal structure and enzymatic activity, structure, function within photoreceptor cells, and activation of intracellular signaling pathways. We also conduct clinical and human genetic studies into the etiology and therapy of autoimmune eye disease.

Our unique access to human surgical eye fluid and tissues allowed us to map the human proteome in normal and diseased eyes with vitreoretinal conditions. We have identified major enzymatic pathways associated with diseases such as age-related macular degeneration, diabetic retinopathy, and autoimmunity. Specific molecules have been validated in mice and in cultured cells.

In partnership with the Sanger Institute, we are conducting a high-throughput phenotype screen in genetically modified mice. We have identified numerous genes that cause eye diseases in mice and their human correlates. The strategic integration of this genotype-phenotype platform provides excellent projects for mechanistic investigations.

Using mouse models of eye disease and human stem cells, we are creating new drugs to treat treat blinding conditions like AMD, diabetic retinopathy, and retinitis pigmentosa.

The laboratory allows highly motivated individuals to be creative in an immersive, interactive environment intensely focused on the restoration of sight. Please contact us to learn more.

## CLINICAL TRIALS

- National Eye Institute Biorepository for Retinal Diseases, Recruiting
- Oral N-acetylcysteine for Retinitis Pigmentosa, Recruiting
- EXPLORE: A Phase II Study to Evaluate the Safety and Efficacy of Two Doses of GT005, Not Recruiting
- GTSCOPE - To Evaluate the Natural Progression of Dry Age-related Macular Degeneration (AMD), Not Recruiting
- HORIZON: A Phase II Study to Evaluate the Safety and Efficacy of Two Doses of GT005, Not Recruiting
- Natural History Study of Patients With X-linked Retinal Dystrophy Associated With Mutations in Retinitis Pigmentosa GTPase Regulator (RPGR), Not Recruiting
- Stratified Pharmacological Approaches for Regulating Circuit-Level Effects, Not Specified

## Teaching

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### STANFORD ADVISEES

#### Med Scholar Project Advisor

Charlotte Weixel

#### Postdoctoral Faculty Sponsor

Madhumeeta Chadha, Gabriel Velez, Tsai-Chu Yeh

#### Postdoctoral Research Mentor

. Akanksha

## Publications

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### PUBLICATIONS

- **Preoperative Classification of Submembrane Spaces for Optical Coherence Tomography-Guided Epiretinal Membranectomy.** *Journal of vitreoretinal diseases*  
Almeida, D. R., Chin, E. K., Mahajan, V. B.  
2026: 24741264261428309
- **A Simplified Classification for Age-Related Macular Degeneration Based on Optical Coherence Tomography.** *medRxiv : the preprint server for health sciences*  
Yeh, T. C., Lin, J. B., Mruthyunjaya, P., Leng, T., DeBoer, C., Sepah, Y. J., Almeida, D. R., Smith, S., Mahajan, V. B.

2026

- **Epidemiology of Inherited Retinal Diseases in the United States: IRIS® Registry (Intelligent Research in Sight) Analysis.** *Ophthalmic surgery, lasers & imaging retina*  
Al-Moujahed, A., Haque, M. E., Mahajan, V. B., Huckfeldt, R., Pershing, S.  
2026: 1-7
- **Multi-omics liquid biopsy identifies mitochondrial dysfunction in geographic atrophy and supports the longevity-associated metabolite  $\alpha$ -ketoglutarate as a therapeutic strategy.** *medRxiv : the preprint server for health sciences*  
Yeh, T. C., Velez, G., Prasad, A., Lee, S. H., Rasmussen, D. K., Kumar, A., Chadha, M., Dabaja, M. Z., Singh, A. M., Sanislo, S., Smith, S., Mruthyunjaya, P., Montague, et al  
2026
- **Multimodal AI fuses proteomic and EHR data for rational prioritization of protein biomarkers in diabetic retinopathy.** *medRxiv : the preprint server for health sciences*  
Lin, J. B., Mataraso, S. J., Chadha, M., Velez, G., Mruthyunjaya, P., Aghaeepour, N., Mahajan, V. B.  
2026
- **Implantable ocular therapeutic systems: an insight into their clinical potential in the long-term treatment of ocular diseases.** *Biofabrication*  
Kim, H., Kang, N. W., Hong, W., Abdollahramezani, S., Ngo, G. H., Raja, D., Peters, O., Mahajan, V. B., Myung, D., Deboer, C.  
2026
- **Shaping the future of myopia: artificial intelligence for vitreoretinal complications of high and pathologic myopia.** *Graefe's archive for clinical and experimental ophthalmology = Albrecht von Graefes Archiv fur klinische und experimentelle Ophthalmologie*  
Mesfin, Y., Salvi, A., Arnal, L., Langlotz, C., Mahajan, V., Ludwig, C. A.  
2026
- **A multimodal retinal aging clock for biological age prediction and systemic health assessment via OCT and fundus imaging.** *Scientific reports*  
Ludwig, C. A., Salvi, A., Mesfin, Y., Arnal, L., Langlotz, C., Mahajan, V.  
2026
- **Oculomics and AI: The eye as a biomarker for health span.** *Asia-Pacific journal of ophthalmology (Philadelphia, Pa.)*  
Le Yi Wong, J., Cheng, H., Peh, W. J., Ho, D., Wong, T. Y., Hui, C. Y., Ting, D. S., Bee, Y. M., Goh, S. Y., Apte, R. S., Mahajan, V. B., Goldberg, J. L., Bischof, et al  
2026: 100282
- **Gene therapy for Bietti crystalline corneoretinal dystrophy: a phase 1/2 clinical trial.** *Molecular therapy : the journal of the American Society of Gene Therapy*  
Yang, L., Xing, D., Zhang, J., Liu, B., Jiang, X., Chen, S., Li, W., Qu, B., Qiao, J., Feng, X., Jia, H., Hu, X., Yu, et al  
2026
- **Automated animal gimbal steering for retinal imaging and stimulation.** *Biomedical optics express*  
Kunala, K., Ayubi, G. A., Franco, J. A., Mahajan, V. B., Dubra, A.  
2026; 17 (1): 502-510
- **Deep Learning Algorithm Prognosticating Retinal Tears and Detachments From Optical Coherence Tomography.** *Translational vision science & technology*  
Salvi, A., Mesfin, Y., Arnal, L., Langlotz, C., Mahajan, V., Ludwig, C. A.  
2025; 14 (11): 18
- **Protocol to extract tear fluid for proteomics using Schirmer strips.** *STAR protocols*  
Ngo, G. H., Chadha, M., Sun, Y. J., Yu, G., Lee, S. H., Yeh, T. C., Almeida, D. R., Bassuk, A. G., Mruthyunjaya, P., Dufour, A., Mahajan, V. B.  
2025; 6 (4): 104146
- **3D Bioprinting of Cellular Therapeutic Systems in Ophthalmology: from Bioengineered Tissue to Personalized Drug Delivery.** *Current ophthalmology reports*  
Kim, H., Ngo, G. H., Hong, W., Lee, S. H., Mahajan, V. B., DeBoer, C.  
2025; 13 (1): 10
- **Ophthalmic drug discovery and development using artificial intelligence and digital health technologies.** *NPJ digital medicine*  
Cheng, H., Wong, J. L., Quek, C. W., Goldberg, J. L., Mahajan, V. B., Wong, T. Y., Mehta, J. S., Ting, D. S., Ting, D. S.

2025; 8 (1): 573

- **Discovery of a selective alpha-kinase 1 inhibitor for the rare genetic disease ROSAH syndrome.** *Nature communications*  
Fan, J., Liu, D., Ming, Z., Yan, C., Dang, H., Pan, Y., Wei, X., Zhao, Z., Wang, W., Zhang, S., Chen, L., Cai, S., Ke, et al  
2025; 16 (1): 8251
- **Near-Real Surgical Specimens (NRSS): A Novel Platform for Standardized Assessment of Suprachoroidal Drug Delivery.** *Translational vision science & technology*  
Mahajan, V. B., Barak, Y., Almeida, D. R.  
2025; 14 (9): 6
- **Safety and efficacy of MCO-010 optogenetic therapy in patients with Stargardt disease in USA (STARLIGHT): an open-label multi-center Ph2 trial.** *EClinicalMedicine*  
Lam, B. L., Zak, V., Gonzalez, V. H., Gregori, N. Z., Chavala, S. H., Batabyal, S., Carlson, M., Kim, S., Ayyagari, A., Chang, J., Lane, H., Choudry, N., Koester, et al  
2025; 87: 103430
- **Elevated PRDM13 Disrupts Photoreceptor Function and Survival in the Mammalian Retina.** *Investigative ophthalmology & visual science*  
Nettesheim, E. R., Rowe, A. A., Yee, T., Alshaikhsalama, A., Cepica, T., Dutt, V., Virani, S. S., Wickersham, G., Mahajan, V. B., Small, K. W., Wert, K. J.  
2025; 66 (11): 38
- **Gestational hypertension increases risk of seizures in children and mice.** *The Journal of clinical investigation*  
Xue, B., Gumusoglu, S. B., Tiarks, G., Todd, B. P., Wong, A., Santillan, D. A., Kuo, C. C., Chiang, H. Y., Ravindranath, R., Wang, S. Y., Mahajan, V. B., Johnson, A. K., Davis, et al  
2025; 135 (12)
- **Unravelling CYP4V2: Clinical Features, Genetic Insights, Pathogenic Mechanisms and Therapeutic Strategies in Bietti Crystalline Corneoretinal Dystrophy.** *Progress in retinal and eye research*  
Jia, R., Chen, S., Li, W., Zhang, J., Qu, B., Qiao, J., Meng, X., Yu, S., Liu, X., Xu, B., Chen, T., Shen, X., Sun, et al  
2025: 101377
- **Vitreous Abnormalities in Retinitis Pigmentosa**  
Ameri, H., Rustam, Z., Ibukun, F., Jain, N., Han, I., Grover, S., Kochhar, S., Mahajan, V. B., Ahrens, H., Rabiee, R., Montezuma, S., Aychoua, N., Lee, et al  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Megalyn ablation in the retinal pigment epithelium results in degeneration of the retina reminiscent of age-related macular degeneration**  
Rasmussen, D., Sorensen, P., Askou, A., Corydon, T., Lee, S., Mahajan, V. B., Nielsen, R.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Enhanced genotype-phenotype analysis using multimodal adaptive optics and 3D protein structure in Bietti Crystalline Dystrophy.** *American journal of ophthalmology case reports*  
Kumar, A., Sun, Y. J., Rasmussen, D. K., Hargrave, A., Phillips, C., Vu, J. T., Costa, M. G., Leung, L. B., Yu, C., Dubra, A., Mahajan, V. B.  
2025; 38: 102312
- **Structure-function analysis of CNGA3-associated achromatopsia patient variants complements clinical genomics in pathogenicity determination.** *Orphanet journal of rare diseases*  
Rasmussen, D. K., Sun, Y. J., Franco, J. A., Kumar, A., Vu, J. T., Bassuk, A. G., Mahajan, V. B.  
2025; 20 (1): 261
- **N-terminomics and proteomics analysis of Calpain-2 reveal key proteolytic processing of metabolic and cell adhesion proteins.** *Protein science : a publication of the Protein Society*  
Kaplan, A., Bulluss, M., Ziegler, A. R., Dabaja, M., Derakhshani, A., Anowai, A., Armstrong, V., Campden, R., Young, D., Sun, Y. J., Scott, N. E., Edgington-Mitchell, L. E., Mahajan, et al  
2025; 34 (5): e70144
- **Artificial intelligence's contribution to biomedical literature search: revolutionizing or complicating?** *PLOS digital health*  
Yip, R., Sun, Y. J., Bassuk, A. G., Mahajan, V. B.  
2025; 4 (5): e0000849

- **Targeted Interventions Lead to Quality Improvement in Year 2 of an Artificial Intelligence-Based Diabetic Retinopathy Detection Program in Northern California.** *Retina (Philadelphia, Pa.)*  
Chen, K. M., Zhao, C. S., Knapp, A., Dow, E., Phadke, A., Tan, M., Desai, K., Or, C., Mahajan, V., Do, D. V., Mruthyunjaya, P., Leng, T., Myung, et al  
2025
- **Human Retinal Cell Delivery of a Bioengineered, Synthetic Protein Sensitive to Multiple Wavelengths of Light in Patients with Stargardt Disease**  
Mahajan, V., Lam, B., Zak, V., Gonzalez, V., Gregori, N., Sai, C., Batabyal, S., Carlson, M., Kim, S., Ayyagari, A., Hu, J., Sharif, N., Tsang, et al  
CELL PRESS.2025
- **Response: Promise and open questions of optogenetic vision restoration by MCO.** *Molecular therapy : the journal of the American Society of Gene Therapy*  
Mohanty, S. K., Mahapatra, S., Batabyal, S., Carlson, M., Kanungo, G., Ayyagari, A., Tchedre, K., Franco, J. A., Singer, M., Barone, S., Chavala, S., Mahajan, V. B.  
2025
- **SAFETY AND PHARMACOKINETICS OF DF-003, A TARGETED, FIRST-IN-CLASS ALPHA-KINASE 1 INHIBITOR FOR TREATMENT OF THE RARE GENETIC DISEASE, ROSAH SYNDROME**  
Guttendorf, R., Mahajan, V., Kim, Y., Cook, C., Parker, S., Fan, J., Liu, D., Zhao, Z., Xu, T., Xu, C., Lichenstein, H., Yogaratnam, J.  
WILEY.2025: S63
- **A synthetic opsin restores vision in patients with severe retinal degeneration.** *Molecular therapy : the journal of the American Society of Gene Therapy*  
Mohanty, S. K., Mahapatra, S., Batabyal, S., Carlson, M., Kanungo, G., Ayyagari, A., Tchedre, K., Franco, J. A., Singer, M., Barone, S., Chavala, S., Mahajan, V. B.  
2025
- **In-clinic vitreous biopsy peel pack technique.** *International journal of retina and vitreous*  
DeBoer, C., Zhao, C., Mruthyunjaya, P., Mahajan, V. B., Wai, K. M., Sanislo, S. R.  
2025; 11 (1): 15
- **Trends in Specialty Training and National Institutes of Health Funding Among Surgeon-Scientists.** *Annals of surgery open : perspectives of surgical history, education, and clinical approaches*  
Velez, G., Mahajan, V. B., Weigel, R. J., Lentz, S. R.  
2024; 5 (4): e521
- **Emerging Oral Pharmaceuticals for Dry Age-Related Macular Degeneration: Mechanism of Action, Current Clinical Status, and Future Directions** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Deboer, C. M. T., Rasmussen, D. K., Franco, J. A., Mahajan, V. B.  
2024; 55 (9): 528-534
- **Endogenous Fusarium Endophthalmitis after Bone Marrow Transplant: A Case Report and Literature Review.** *Vision (Basel, Switzerland)*  
Zhao, C. S., Wai, K., Koo, E. B., Rahimy, E., Mruthyunjaya, P., Mahajan, V. B., DeBoer, C. M.  
2024; 8 (3)
- **Neuroprotective effects of naltrexone in a mouse model of post-traumatic seizures.** *Scientific reports*  
Rodriguez, S., Sharma, S., Tiarks, G., Peterson, Z., Jackson, K., Thedens, D., Wong, A., Keffala-Gerhard, D., Mahajan, V. B., Ferguson, P. J., Newell, E. A., Glykys, J., Nickl-Jockschat, et al  
2024; 14 (1): 13507
- **Simplified Clinic-Based Vitreous Biopsy Technique Using A Vitreous Cutter and Manual Actuation**  
DeBoer, C., Knapp, A. N., Wai, K., Mruthyunjaya, P., Mahajan, V. B., Sanislo, S.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Protein structure analysis of <i>CNGA3</i> variants in achromatopsia**  
Rasmussen, D. K., Sun, Y., Franco, J., Kumar, A., Vu, J. T., Mahajan, V. B.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **The Structure -pathology relationship for calpain hyperactivity in inflammatory eye disease**  
Sun, Y., Velez, G., Lee, S., Ngo, G., Bassuk, A., Costa, M., Mahajan, V. B.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024

- **Calpain-5 regulates inflammatory gene expression through IRX3**  
Franco, J., Toral, M., Sun, Y., Lee, S., Velez, G., Bassuk, A., Mahajan, V. B.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Liquid biopsy safety in ophthalmic surgery for clinical diagnostics and research**  
Kumar, A., Wolf, J., Chemudupati, T., Mruthyunjaya, P., Mahajan, V. B.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **High-resolution proteomic profiling of aqueous humor liquid biopsies from patients with uveitis**  
Wolf, J., Rasmussen, D. K., Sun, Y., Mruthyunjaya, P., Dufour, A., Bassuk, A., Mahajan, V. B.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Multi-modal proteomic characterization of liquid biopsies from uveal melanoma patients identifies protein signatures and pathways associated with metastatic risk**  
Velez, G., Wolf, J., Dufour, A., Mruthyunjaya, P., Mahajan, V. B.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Longitudinal BCVA Analysis of Patients With Stargardt Disease and Macular Degeneration Treated With MCO-010, a Mutation-Agnostic Optogenetic Therapy: 48-Week Results From a Phase 2a Clinical Trial (STARLIGHT)**  
Mahajan, V. B.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Crystalline Hepatopathy Associated With Bietti Crystalline Dystrophy: A Striking Manifestation of Disordered Fatty Acid Metabolism. *The American journal of surgical pathology***  
Dulken, B. W., Bahceci, D., Leung, L. S., Mahajan, V. B., Choi, W. T., Tan, S. Y.  
2024
- **Identification of highly potent and selective HTRA1 inhibitors. *Bioorganic & medicinal chemistry letters***  
Dennis, D. G., Joo Sun, Y., Parsons, D. E., Mahajan, V. B., Smith, M.  
2024: 129814
- **Integrating the analysis of human biopsies using post-translational modifications proteomics. *Protein science : a publication of the Protein Society***  
Bhardwaj, S., Bulluss, M., D'Aubeterre, A., Derakhshani, A., Penner, R., Mahajan, M., Mahajan, V. B., Dufour, A.  
2024; 33 (4): e4979
- **Using Electronic Health Record Data to Determine the Safety of Aqueous Humor Liquid Biopsies for Molecular Analyses. *Ophthalmology science***  
Wolf, J., Chemudupati, T., Kumar, A., Franco, J. A., Montague, A. A., Lin, C. C., Lee, W. S., Fisher, A. C., Goldberg, J. L., Mruthyunjaya, P., Chang, R. T., Mahajan, V. B.  
2024; 4 (5): 100517
- **In-Office Vitreous Biopsy With a Vitreous Cutter and Manual Actuation *OPHTHALMIC SURGERY LASERS & IMAGING RETINA***  
Deboer, C. M. T., Mahajan, V. B., Sanislo, S. R.  
2024; 55 (2): 116-118
- **Macular dystrophy in Kabuki syndrome due to de novo KMT2D variants: refining the phenotype with multimodal imaging and follow-up over 10 years: insight into pathophysiology. *Graefe's archive for clinical and experimental ophthalmology = Albrecht von Graefes Archiv fur klinische und experimentelle Ophthalmologie***  
Vaclavik, V., Navarro, A., Jacot-Guillarmod, A., Bottani, A., Sun, Y. J., Franco, J. A., Mahajan, V. B., Smirnov, V., Bouvet-Drumare, I.  
2024
- **Ocular Biometry OCR: a machine learning algorithm leveraging optical character recognition to extract intra ocular lens biometry measurements. *Frontiers in artificial intelligence***  
Salvi, A., Arnal, L., Ly, K., Ferreira, G., Wang, S. Y., Langlotz, C., Mahajan, V., Ludwig, C. A.  
2024; 7: 1428716
- **Liquid Biopsy Proteomics in Ophthalmology. *Journal of proteome research***  
Wolf, J., Franco, J. A., Yip, R., Dabaja, M. Z., Velez, G., Liu, F., Bassuk, A. G., Mruthyunjaya, P., Dufour, A., Mahajan, V. B.  
2024

- **AI-Human Hybrid Workflow Enhances Teleophthalmology for the Detection of Diabetic Retinopathy.** *Ophthalmology science*  
Dow, E. R., Khan, N. C., Chen, K. M., Mishra, K., Perera, C., Narala, R., Basina, M., Dang, J., Kim, M., Levine, M., Phadke, A., Tan, M., Weng, et al  
2023; 3 (4): 100330
- **Artificial Intelligence Improves Patient Follow-Up in a Diabetic Retinopathy Screening Program.** *Clinical ophthalmology (Auckland, N.Z.)*  
Dow, E. R., Chen, K. M., Zhao, C. S., Knapp, A. N., Phadke, A., Weng, K., Do, D. V., Mahajan, V. B., Mruthyunjaya, P., Leng, T., Myung, D.  
2023; 17: 3323-3330
- **Cross-Platform Identification and Validation of Uveal Melanoma Vitreous Protein Biomarkers.** *Investigative ophthalmology & visual science*  
Velez, G., Wolf, J., Dufour, A., Mruthyunjaya, P., Mahajan, V. B.  
2023; 64 (14): 14
- **Liquid-biopsy proteomics combined with AI identifies cellular drivers of eye aging and disease in vivo.** *Cell*  
Wolf, J., Rasmussen, D. K., Sun, Y. J., Vu, J. T., Wang, E., Espinosa, C., Bigini, F., Chang, R. T., Montague, A. A., Tang, P. H., Mruthyunjaya, P., Aghaepour, N., Dufour, et al  
2023
- **Autosomal dominant neovascular inflammatory vitreoretinopathy with CAPN5 c.731T > C gene mutation; clinical management of a family cohort and review of the literature.** *Ophthalmic genetics*  
Tabbaa, T., Mehra, A. A., Kesav, N. P., Mahajan, V. B., Swanson, R. D., Zubricky, R., Sobol, W. M.  
2023; 1-9
- **Simultaneous Bilateral Open-Globe Repair and Vitreoretinal Surgery for Explosive-Related Ocular Injury.** *Journal of vitreoretinal diseases*  
Mishra, K., Roybal, C. N., Mahajan, V. B.  
2023; 7 (6): 540-544
- **Unleashing the potential of CRISPR multiplexing: Harnessing Cas12 and Cas13 for precise gene modulation in eye diseases.** *Vision research*  
Bigini, F., Lee, S. H., Sun, Y. J., Sun, Y., Mahajan, V. B.  
2023; 213: 108317
- **Biobanking of Human Aqueous and Vitreous Liquid Biopsies for Molecular Analyses.** *Journal of visualized experiments : JoVE*  
Wolf, J., Chemudupati, T., Kumar, A., Rasmussen, D. K., Wai, K. M., Chang, R. T., Montague, A. A., Tang, P. H., Bassuk, A. G., Dufour, A., Mruthyunjaya, P., Mahajan, V. B.  
2023
- **Hardwiring tissue-specific AAV transduction in mice through engineered receptor expression.** *Nature methods*  
Zengel, J., Wang, Y. X., Seo, J. W., Ning, K., Hamilton, J. N., Wu, B., Raie, M., Holbrook, C., Su, S., Clements, D. R., Pillay, S., Puschnik, A. S., Winslow, et al  
2023
- **Overexpression of PRDM13 Leads to Photoreceptor Degeneration in a Novel, Inducible Murine Model**  
Nettesheim, E., Rowe, A., Cepica, T., Yee, T., Alshaikhsalama, A., Wickersham, G., Mahajan, V., Small, K., Wert, G.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Real world outcomes from artificial intelligence to detect diabetic retinopathy in the primary care setting: 12 month experience**  
Knapp, A. N., Dow, E., Chen, K., Khan, N. C., Do, D. V., Mahajan, V., Mruthyunjaya, P., Leng, T., Myung, D.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Cilia-associated wound repair mediated by IFT88 in retinal pigment epithelium.** *Scientific reports*  
Ning, K., Bhuckory, M. B., Lo, C. H., Sendayen, B. E., Kowal, T. J., Chen, M., Bansal, R., Chang, K. C., Vollrath, D., Berbari, N. F., Mahajan, V. B., Hu, Y., Sun, et al  
2023; 13 (1): 8205
- **Intraoperative Complications With Vitreous Biopsy for Molecular Proteomics** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
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