

Stanford



Vinit Mahajan, MD, PhD

Associate Professor of Ophthalmology

CLINICAL OFFICES

- **Stanford Byers Eye Institute**

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ACADEMIC CONTACT INFORMATION

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

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Bio

BIO

Dr. Mahajan is an Associate Professor and vitreoretinal surgeon and scientist in the Department of Ophthalmology at Stanford University. He directs the NIH-funded 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.

CLINICAL FOCUS

- Ophthalmology
- Vitreoretinal diseases and Surgery
- Macular Degeneration
- Retina Genetics and Gene Therapy
- Uveitis
- Macular Hole
- Epiretinal Membrane
- Retinitis Pigmentosa
- Diabetic Retinopathy
- Retinal Detachment

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Ophthalmology
- Member, Bio-X
- Faculty Fellow, Sarafan ChEM-H
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

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

HONORS AND AWARDS

- Clinician Scientist Award, Doris Duke Charitable Foundation (2013)
- Alumni Achievement Award, Fight for Sight (2017)

PROFESSIONAL EDUCATION

- Fellowship: University of Iowa Ophthalmology Fellowships (2008) IA
- Residency: UCLA Stein Eye Institute Ophthalmology Residency (2006) CA
- Internship: Harbor UCLA Transitional Year (2002) CA
- Medical Education: University of California at Irvine School of Medicine Registrar (2001) CA

LINKS

- Mahajan lab: <https://mahajanlab.stanford.edu>
- Mahajan Clinic and Surgery: <https://mahajanlab.stanford.edu/patients>

Research & Scholarship

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. Protein crystallography of Calpain-5 and its signaling mechanisms in the retina. 2. Proteomics of vitreoretinal disease. 3. Genome-wide knockout screen of mouse eye phenotypes. 4. CRISPR 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 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 exploring the application of CRISPR to treat blinding conditions.

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

- EXPLORE: A Phase II Study to Evaluate the Safety and Efficacy of Two Doses of GT005, Recruiting
- GTSCOPE - To Evaluate the Natural Progression of Dry Age-related Macular Degeneration (AMD), Recruiting
- HORIZON: A Phase II Study to Evaluate the Safety and Efficacy of Two Doses of GT005, Recruiting
- National Eye Institute Biorepository for Retinal Diseases, Recruiting
- Natural History Study of Patients With X-linked Retinal Dystrophy Associated With Mutations in Retinitis Pigmentosa GTPase Regulator (RPGR), Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

David Dennis, 'Young Joo' Sun, Julian Wolf

Postdoctoral Research Mentor

'Young Joo' Sun

Publications

PUBLICATIONS

- **Retinal artery and vein occlusion in calciphylaxis.** *American journal of ophthalmology case reports*
Naranjo, A., Rayess, N., Ryan, E., Iv, M., Mahajan, V. B.
2022; 26: 101433
- **Proteomic analysis of autoimmune retinopathy implicates NrCAM as a potential biomarker.** *Ophthalmology science*
Al-Moujahed, A., Velez, G., Vu, J. T., Lima de Carvalho, J. R., Levi, S. R., Bassuk, A. G., Sepah, Y. J., Tsang, S. H., Mahajan, V. B.
2022; 2 (2)
- **Bacillary Layer Detachment after Photodynamic Therapy.** *Ophthalmology. Retina*
Mishra, K., Mahajan, V. B.
2022; 6 (6): 500
- **Multimodal imaging reveals retinoschisis masquerading as retinal detachment in patients with choroideremia.** *American journal of ophthalmology case reports*
Greig, L. C., Gutierrez, K. G., Oh, J. K., Levi, S. R., Korot, E., Tsang, S. H., Mahajan, V. B.
2022; 26: 101543
- **Calpains as mechanistic drivers and therapeutic targets for ocular disease.** *Trends in molecular medicine*
Vu, J. T., Wang, E., Wu, J., Sun, Y. J., Velez, G., Bassuk, A. G., Lee, S. H., Mahajan, V. B.
2022
- **Author Correction: Investigation of Cas9 antibodies in the human eye.** *Nature communications*
Toral, M. A., Charlesworth, C. T., Ng, B., Chemudupati, T., Homma, S., Nakauchi, H., Bassuk, A. G., Porteus, M. H., Mahajan, V. B.
2022; 13 (1): 2109
- **Expanding the phenotype of TLL5-associated retinal dystrophy: a case series.** *Orphanet journal of rare diseases*
Oh, J. K., Vargas Del Valle, J. G., Lima de Carvalho, J. R., Sun, Y. J., Levi, S. R., Ryu, J., Yang, J., Nagasaki, T., Emanuelli, A., Rasool, N., Allikmets, R., Sparrow, J. R., Izquierdo, et al
2022; 17 (1): 146
- **A protocol to inject ocular drug implants into mouse eyes.** *STAR protocols*
Lin, C., Sun, Y. J., Lee, S. H., Mujica, E. M., Kunchur, C. R., Wu, M., Yang, J., Jung, Y. S., Chiang, B., Wang, S., Mahajan, V. B.
2022; 3 (1): 101143
- **New COL6A6 Variant Causes Autosomal Dominant Retinitis Pigmentosa in a Four-Generation Family.** *Investigative ophthalmology & visual science*
Vaclavik, V., Tiab, L., Sun, Y. J., Mahajan, V. B., Moulin, A., Allaman-Pillet, N., Munier, F. L., Schorderet, D. F.
2022; 63 (3): 23
- **Surgical management of acanthamoeba chorioretinitis.** *American journal of ophthalmology case reports*
Mishra, K., Velez, G., Roybal, C. N., Mahajan, V. B.
2022; 25: 101388
- **Investigation of Cas9 antibodies in the human eye.** *Nature communications*
Toral, M. A., Charlesworth, C. T., Ng, B., Chemudupati, T., Homma, S., Nakauchi, H., Bassuk, A. G., Porteus, M. H., Mahajan, V. B.
2022; 13 (1): 1053
- **Proteomics in uveal melanoma.** *Current opinion in ophthalmology*
Heiferman, M. J., Mahajan, V. B., Mruthyunjaya, P.
1800
- **An intravitreal implant injection method for sustained drug delivery into mouse eyes.** *Cell reports methods*
Sun, Y. J., Lin, C., Wu, M., Lee, S. H., Yang, J., Kunchur, C. R., Mujica, E. M., Chiang, B., Jung, Y. S., Wang, S., Mahajan, V. B.
2021; 1 (8)

- **The Present and Future of Mitochondrial-Based Therapeutics for Eye Disease.** *Translational vision science & technology*
Ji, M. H., Kreymerman, A., Belle, K., Ghiam, B. K., Muscat, S. P., Mahajan, V. B., Enns, G. M., Mercola, M., Wood, E. H.
2021; 10 (8): 4
- **Molecular Characterization of a Rare Case of Bilateral Vitreoretinal T Cell Lymphoma through Vitreous Liquid Biopsy.** *International journal of molecular sciences*
Cani, A. K., Toral, M. A., Balikov, D. A., Betz, B. L., Hu, K., Liu, C. J., Prifti, M. V., Chinnaiyan, A. M., Tomlins, S. A., Mahajan, V. B., Rao, R. C.
2021; 22 (11)
- **Molecular Characterization of a Rare Case of Bilateral Vitreoretinal T Cell Lymphoma through Vitreous Liquid Biopsy** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*
Cani, A. K., Toral, M. A., Balikov, D. A., Betz, B. L., Hu, K., Liu, C., Prifti, M. V., Chinnaiyan, A. M., Tomlins, S. A., Mahajan, V. B., Rao, R. C.
2021; 22 (11)
- **Telegenetics for Inherited Retinal Diseases during the COVID-19 pandemic**
Kumar, A., Al Moujahed, A., Chemudupati, T., Tsang, S. H., Mahajan, V. B.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **Proteomic identification of candidate biomarkers that distinguish lens-induced uveitis from infectious endophthalmitis**
Al Moujahed, A., Velez, G., Vu, J., Ferguson, P., Bassuk, A., Mahajan, V. B.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **Telegenetics for inherited retinal diseases in the COVID-19 environment.** *International journal of retina and vitreous*
Al-Moujahed, A., Kumar, A., Chemudupati, T., Tsang, S. H., Mahajan, V. B.
2021; 7 (1): 25
- **Peptidomimetics Therapeutics for Retinal Disease.** *Biomolecules*
Parsons, D. E., Lee, S. H., Sun, Y. J., Velez, G., Bassuk, A. G., Smith, M., Mahajan, V. B.
2021; 11 (3)
- **Liquid biopsy proteomics of uveal melanoma reveals biomarkers associated with metastatic risk.** *Molecular cancer*
Velez, G., Nguyen, H. V., Chemudupati, T., Ludwig, C. A., Toral, M., Reddy, S., Mruthyunjaya, P., Mahajan, V. B.
2021; 20 (1): 39
- **Genetics of Uveitis.** *Ocular immunology and inflammation*
Cunningham, E. T., Pichi, F., Mahajan, V. B., Rosenbaum, J. T., Zierhut, M.
2021; 29 (2): 215–18
- **Structure-based phylogeny identifies Avoralstat as a TMPRSS2 inhibitor that prevents SARS-CoV-2 infection in mice.** *The Journal of clinical investigation*
Sun, Y. J., Velez, G. n., Parsons, D. E., Li, K. n., Ortiz, M. E., Sharma, S. n., McCray, P. B., Bassuk, A. G., Mahajan, V. B.
2021
- **Molecular Surgery: Proteomics of a Rare Genetic Disease Gives Insight into Common Causes of Blindness.** *iScience*
Velez, G., Mahajan, V. B.
2020; 23 (11): 101667
- **Retinal Manifestations of Mitochondrial Oxidative Phosphorylation Disorders.** *Investigative ophthalmology & visual science*
Oh, J. K., Lima de Carvalho, J. R., Nuzbrokh, Y., Ryu, J., Chemudupati, T., Mahajan, V. B., Sparrow, J. R., Tsang, S. H.
2020; 61 (12): 12
- **Untitled Reply** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
Mahajan, V. B., Wood, E.
2020; 40 (8): E37
- **Whole-Exome Sequencing of Patients with Posterior Segment Uveitis.** *American journal of ophthalmology*
Li, A. S., Velez, G., Darbro, B., Toral, M. A., Yang, J., Tsang, S. H., Ferguson, P. J., Folk, J. C., Bassuk, A. G., Mahajan, V. B.
2020
- **Novel PRPF31 gene loss of function for retinitis pigmentosa 11**
Chemudupati, T., Sun, Y., Yang, J., Ng, B., Mahajan, V. B.

ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020

- **Structural Insights into the Unique Activation Mechanisms of a Non-classical Calpain and Its Disease-Causing Variants.** *Cell reports*
Velez, G., Sun, Y. J., Khan, S., Yang, J., Herrmann, J., Chemudupati, T., MacLaren, R. E., Gakhar, L., Wakatsuki, S., Bassuk, A. G., Mahajan, V. B.
2020; 30 (3): 881
- **Metabolite therapy guided by liquid biopsy proteomics delays retinal neurodegeneration.** *EBioMedicine*
Wert, K. J., Velez, G. n., Kanchustambham, V. L., Shankar, V. n., Evans, L. P., Sengillo, J. D., Zare, R. N., Bassuk, A. G., Tsang, S. H., Mahajan, V. B.
2020; 52: 102636
- **Optical Gap Biomarker in Cone-Dominant Retinal Dystrophy.** *American journal of ophthalmology*
Oh, J. K., Ryu, J. n., Lima de Carvalho, J. R., Levi, S. R., Lee, W. n., Tsamis, E. n., Greenstein, V. C., Mahajan, V. B., Allikmets, R. n., Tsang, S. H.
2020
- **Reply.** *Retina (Philadelphia, Pa.)*
Mahajan, V. B., Wood, E. n.
2020
- **Phenotypic variance in Calpain-5 retinal degeneration.** *American journal of ophthalmology case reports*
Tang, P. H., Chemudupati, T. n., Wert, K. J., Folk, J. C., Mahajan, M. n., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
2020; 18: 100627
- **Proteomic analysis of intermediate uveitis suggests myeloid cell recruitment and implicates IL-23 as a therapeutic target.** *American journal of ophthalmology case reports*
Sepah, Y. J., Velez, G. n., Tang, P. H., Yang, J. n., Chemudupati, T. n., Li, A. S., Nguyen, Q. D., Bassuk, A. G., Mahajan, V. B.
2020; 18: 100646
- **Intravitreal methotrexate and fluocinolone acetonide implantation for Vogt-Koyanagi-Harada uveitis.** *American journal of ophthalmology case reports*
Park, J. G., Callaway, N. F., Ludwig, C. A., Mahajan, V. B.
2020; 19: 100859
- **Modulation of post-traumatic immune response using the IL-1 receptor antagonist anakinra for improved visual outcomes.** *Journal of neurotrauma*
Evans, L. P., Woll, A. W., Wu, S. n., Todd, B. P., Hehr, N. N., Hedberg-Buenz, A. n., Anderson, M. G., Newell, E. A., Ferguson, P. J., Mahajan, V. B., Harper, M. M., Bassuk, A. G.
2020
- **Sex Does Not Influence Visual Outcomes After Blast-Mediated Traumatic Brain Injury but IL-1 Pathway Mutations Confer Partial Rescue.** *Investigative ophthalmology & visual science*
Evans, L. P., Boehme, N. n., Wu, S. n., Burghardt, E. L., Akurathi, A. n., Todd, B. P., Newell, E. A., Ferguson, P. J., Mahajan, V. B., Dutca, L. M., Harper, M. M., Bassuk, A. G.
2020; 61 (12): 7
- **Quantitative Autofluorescence Following Gene Therapy With Voretigene Neparvovec.** *JAMA ophthalmology*
Levi, S. R., Oh, J. K., de Carvalho, J. R., Mahajan, V. B., Tsang, S. H., Sparrow, J. R.
2020
- **Sex Differences in the Repair of Retinal Detachments in the United States.** *American journal of ophthalmology*
Callaway, N. F., Vail, D. n., Al-Moujahed, A. n., Ludwig, C. n., Ji, M. H., Mahajan, V. B., Pershing, S. n., Moshfeghi, D. M.
2020
- **Fundoscopy-directed genetic testing to re-evaluate negative whole exome sequencing results.** *Orphanet journal of rare diseases*
Cho, A. n., Lima de Carvalho, J. R., Tanaka, A. J., Jauregui, R. n., Levi, S. R., Bassuk, A. G., Mahajan, V. B., Tsang, S. H.
2020; 15 (1): 32
- **Compound heterozygous novel frameshift variants in the PROM1 gene result in Leber congenital amaurosis.** *Cold Spring Harbor molecular case studies*
Ragi, S. D., Lima de Carvalho, J. R., Tanaka, A. J., Park, K. S., Mahajan, V. B., Maumenee, I. H., Tsang, S. H.
2019; 5 (6)
- **A Reversible Silicon Oil-Induced Ocular Hypertension Model in Mice.** *Journal of visualized experiments : JoVE*
Zhang, J., Fang, F., Li, L., Huang, H., Webber, H. C., Sun, Y., Mahajan, V. B., Hu, Y.
2019

- **Limbal Trocar-Cannulas for Complex Vitrectomy Surgery** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
Mears, K. A., Mahajan, V. B.
2019; 39: 119–22
- **Hypoxic drive caused Type 3 neovascularization in a preclinical model of exudative age-related macular degeneration.** *Human molecular genetics*
Zhang, L., Cui, X., Han, Y., Park, K. S., Gao, X., Zhang, X., Yuan, Z., Hu, Y., Hsu, C., Li, X., Bassuk, A. G., Mahajan, V. B., Wang, et al
2019
- **Mechanisms of neurodegeneration in a preclinical autosomal dominant retinitis pigmentosa knock-in model with a Rho(D190N) mutation** *CELLULAR AND MOLECULAR LIFE SCIENCES*
Sancho-Pelluz, J., Cui, X., Lee, W., Tsai, Y., Wu, W., Justus, S., Washington, I., Hsu, C., Park, K., Koch, S., Velez, G., Bassuk, A. G., Mahajan, et al
2019; 76 (18): 3657–65
- **CAPN5 genetic inactivation phenotype supports therapeutic inhibition trials.** *Human mutation*
Wert, K. J., Koch, S. F., Velez, G., Hsu, C., Mahajan, M., Bassuk, A. G., Tsang, S. H., Mahajan, V. B.
2019
- **A novel inducible and reversible mouse glaucoma model: Silicone Oil-Induced Ocular Hypertension Under-detected (SOHU)**
Zhang, J., Li, L., Huang, H., Webber, H., Li, S., Tang, P., Mahajan, V. B., Sun, Y., Zhang, M., Hu, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **Comparison of structural progression between ciliopathy and non-ciliopathy associated with autosomal recessive retinitis pigmentosa**
Xu, C. L., Takahashi, V., Ben Apatoff, M., Takiuti, J., Duong, J. K., Mahajan, V. B., Tsang, S.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **Visual Function Questionnaire Responses in the Voretigene Neparvec Phase 3 Trial**
Russell, S. R., Maguire, A. M., Bennett, J., Falabella, P., Sohn, E. H., Mahajan, V. B., Chung, D. C., Reape, K. Z., High, K. A.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **Ophthalmic specimens from bedside to bench: An integrated biorepository platform to bridge the gap between the operating room and laboratory**
Chemudupati, S., Mahajan, V. B., Mruthyunjaya, P.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **Characterization of primary cilia in mouse retina during retinal development**
Ning, K., Kowal, T., Chang, K., Alvarado, J., Silva, R., Kreymerman, A., Mahajan, V. B., Hu, Y., Sun, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **CAPN5 genetic inactivation phenotype supports therapeutic inhibition trials**
Wert, K., Koch, S. F., Velez, G., Hsu, C., Mahajan, M., Bassuk, A. G., Tsang, S. H., Mahajan, V. B.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **Therapeutic Window for Phosphodiesterase 6-Related Retinitis Pigmentosa** *JAMA OPHTHALMOLOGY*
Wang, N., Mahajan, V. B., Tsang, S. H.
2019; 137 (6): 679–80
- **Traumatic chorioretinitis sclopetaria: Risk factors, management, and prognosis.** *American journal of ophthalmology case reports*
Ludwig, C. A., Shields, R. A., Do, D. V., Moshfeghi, D. M., Mahajan, V. B.
2019; 14: 39–46
- **Gain-of-function mutations in a member of the Src family kinases cause autoinflammatory bone disease in mice and humans.** *Proceedings of the National Academy of Sciences of the United States of America*
Abe, K., Cox, A., Takamatsu, N., Velez, G., Laxer, R. M., Tse, S. M., Mahajan, V. B., Bassuk, A. G., Fuchs, H., Ferguson, P. J., Hrabe de Angelis, M.
2019
- **Silicone oil-induced ocular hypertension and glaucomatous neurodegeneration in mouse** *ELIFE*
Zhang, J., Li, L., Huang, H., Fang, F., Webber, H. C., Zhuang, P., Liu, L., Dalal, R., Tang, P. H., Mahajan, V. B., Sun, Y., Li, S., Zhang, et al
2019; 8
- **Silicone oil-induced ocular hypertension and glaucomatous neurodegeneration in mouse.** *eLife*
Zhang, J., Li, L., Huang, H., Fang, F., Webber, H. C., Zhuang, P., Liu, L., Dalal, R., Tang, P. H., Mahajan, V. B., Sun, Y., Li, S., Zhang, et al

2019; 8

- **Insights into Retinal Development Using Live Imaging in Female Carriers of Choroideremia.** *Ophthalmic surgery, lasers & imaging retina*
Wert, K. J., Bakall, B., Bassuk, A. G., Tsang, S. H., Mahajan, V. B.
2019; 50 (5): e158-e162
- **Therapeutic Window for Phosphodiesterase 6-Related Retinitis Pigmentosa.** *JAMA ophthalmology*
Wang, N., Mahajan, V. B., Tsang, S. H.
2019
- **Early Onset Neovascular Inflammatory Vitreoretinopathy Due to a De Novo CAPN5 Mutation: Report of a Case** *OCULAR IMMUNOLOGY AND INFLAMMATION*
O'Keefe, G., Hanif, A. M., Mahajan, V. B., Jain, N.
2019
- **Early Onset Neovascular Inflammatory Vitreoretinopathy Due to a De Novo CAPN5 Mutation: Report of a Case.** *Ocular immunology and inflammation*
O'Keefe, G., Hanif, A. M., Mahajan, V. B., Jain, N.
2019: 1–3
- **Fundus autofluorescence and ellipsoid zone (EZ) line width can be an outcome measurement in RHO-associated autosomal dominant retinitis pigmentosa** *GRAEFES ARCHIVE FOR CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY*
Takahashi, V. L., Takiuti, J. T., Carvalho, J. L., Xu, C. L., Duong, J. K., Mahajan, V. B., Tsang, S. H.
2019; 257 (4): 725–31
- **SCAPER-associated nonsyndromic autosomal recessive retinitis pigmentosa** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
Jauregui, R., Thomas, A. L., Liechty, B., Velez, G., Mahajan, V. B., Clark, L., Tsang, S. H.
2019; 179 (2): 312–16
- **Optical Coherence Tomography Angiography of RPGR- Associated Retinitis Pigmentosa Suggests Foveal Avascular Zone is a Biomarker for Vision Loss** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
Tang, P. H., Jauregui, R., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
2019; 50 (2): E44–E48
- **Fundus autofluorescence and ellipsoid zone (EZ) line width can be an outcome measurement in RHO-associated autosomal dominant retinitis pigmentosa.** *Graefe's archive for clinical and experimental ophthalmology = Albrecht von Graefes Archiv fur klinische und experimentelle Ophthalmologie*
Takahashi, V. K., Takiuti, J. T., Carvalho-Jr, J. R., Xu, C. L., Duong, J. K., Mahajan, V. B., Tsang, S. H.
2019
- **Viral Delivery Systems for CRISPR.** *Viruses*
Xu, C. L., Ruan, M. Z., Mahajan, V. B., Tsang, S. H.
2019; 11 (1)
- **Novel mutations in the 3-box motif of the BACK domain of KLHL7 associated with nonsyndromic autosomal dominant retinitis pigmentosa.** *Orphanet journal of rare diseases*
Oh, J. K., Lima de Carvalho, J. R., Sun, Y. J., Ragi, S. n., Yang, J. n., Levi, S. R., Ryu, J. n., Bassuk, A. G., Mahajan, V. B., Tsang, S. H.
2019; 14 (1): 295
- **Novel REEP6 gene mutation associated with autosomal recessive retinitis pigmentosa.** *Documenta ophthalmologica. Advances in ophthalmology*
Lin, Y. n., Xu, C. L., Velez, G. n., Yang, J. n., Tanaka, A. J., Breazzano, M. P., Mahajan, V. B., Sparrow, J. R., Tsang, S. H.
2019
- **Opposing T cell responses in experimental autoimmune encephalomyelitis.** *Nature*
Saligrama, N. n., Zhao, F. n., Sikora, M. J., Serratelli, W. S., Fernandes, R. A., Louis, D. M., Yao, W. n., Ji, X. n., Idoyaga, J. n., Mahajan, V. B., Steinmetz, L. M., Chien, Y. H., Hauser, et al
2019
- **In Vivo Expression of Mutant Calpains in the Eye Using Lentivirus** *CALPAIN: METHODS AND PROTOCOLS*
Wert, K. J., Mahajan, V. B., Messer, J. S.
2019; 1915: 233–47
- **VCAN Canonical Splice Site Mutation is Associated With Vitreoretinal Degeneration and Disrupts an MMP Proteolytic Site.** *Investigative ophthalmology & visual science*

- Tang, P. H., Velez, G. n., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
2019; 60 (1): 282–93
- **In Vivo Expression of Mutant Calpains in the Eye Using Lentivirus.** *Methods in molecular biology (Clifton, N.J.)*
Wert, K. J., Mahajan, V. B.
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