Stanford

Vinit Mahajan

Associate Professor of Ophthalmology at the Stanford University Medical Center

CLINICAL OFFICES

- **Stanford Byers Eye Institute**

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ACADEMIC CONTACT INFORMATION

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

  Sara Horca - Administrative Associate II

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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 Disease and Surgery
- Macular Degeneration
- Retinal Detachment
- Uveitis
- Macular Hole
- Epiretinal Membrane

ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Ophthalmology
- Member, Bio-X
- Faculty Fellow, Stanford ChEM-H
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

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

PROFESSIONAL EDUCATION

- Medical Education: University of California at Irvine Post Graduate Training (2001) CA
- Fellowship: University of Iowa College of Medicine (2008) IA
- Residency: University of California Los Angeles School of Medicine (2006) CA
- Internship: University of California Los Angeles School of Medicine (2002) 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.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

'Young Joo' Sun, Katherine Wert

Postdoctoral Research Mentor

'Young Joo' Sun

Publications

PUBLICATIONS

- **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
- **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)
- **Bilateral Endophthalmitis after Immediately Sequential Bilateral Cataract Surgery.** *Ophthalmology. Retina*
  Callaway, N. F., Ji, M. H., Mahajan, V. B., Moshfeghi, D. M.
  2019
- **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., 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.
  2019; 1915: 233–47
- **Mechanisms of neurodegeneration in a preclinical autosomal dominant retinitis pigmentosa knock-in model with a RhoD190N mutation.** *Cellular and molecular life sciences : CMLS*
  Sancho-Pelluz, J., Cui, X., Lee, W., Tsai, Y. T., Wu, W. H., Justus, S., Washington, I., Hsu, C. W., Park, K. S., Koch, S., Velez, G., Bassuk, A. G., Mahajan, et al
  2019
- **In trans variant calling reveals enrichment for compound heterozygous variants in genes involved in neuronal development and growth.** *Genetics research*
  Cox, A. J., Grady, F., Velez, G., Mahajan, V. B., Ferguson, P. J., Kitchen, A., Darbro, B. W., Bassuk, A. G.
  2019; 101: e8
- **Viral Delivery Systems for CRISPR** *VIRUSES-BASEL*
  Xu, C. L., Ruan, M. C., Mahajan, V. B., Tsang, S. H.
  2019; 11 (1)
- **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., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.

2019; 60 (1): 282–93

- **Proteomic insight into the pathogenesis of CAPN5-vitreoretinopathy.** *Scientific reports*
  Velez, G., Yang, J., Li, A. S., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
  2019; 9 (1): 7608

- **CRISPR Base Editing in Induced Pluripotent Stem Cells.** *Methods in molecular biology (Clifton, N.J.)*
  Chang, Y. J., Xu, C. L., Cui, X., Bassuk, A. G., Mahajan, V. B., Tsai, Y. T., Tsang, S. H.
  2019

- **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.
  2018

- **Review of Ocular Manifestations of Joubert Syndrome.** *Genes*
  Wang, S. F., Kowal, T. J., Ning, K., Koo, E. B., Wu, A. Y., Mahajan, V. B., Sun, Y.
  2018; 9 (12)

- **Review of Ocular Manifestations of Joubert Syndrome** *GENES*
  Wang, S. F., Kowal, T. J., Ning, K., Koo, E. B., Wu, A. Y., Mahajan, V. B., Sun, Y.
  2018; 9 (12)

- **ProSave: an application for restoring quantitative data to manipulated subsets of protein lists** *SOURCE CODE FOR BIOLOGY AND MEDICINE*
  Machlab, D. A., Velez, G., Bassuk, A. G., Mahajan, V. B.
  2018; 13

- **Rates of Bone Spicule Pigment Appearance in Patients With Retinitis Pigmentosa Sine Pigmento** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
  Takahashi, V. L., Takiuti, J. T., Jauregui, R., Mahajan, V. B., Tsang, S. H.
  2018; 195: 176–80

- **PROGRESSION OF SCOTOPIC SINGLE-FLASH ELECTRORETINOGRAPHY IN THE STAGES OF CAPN5 VITREORETINOPATHY.** *Retinal cases & brief reports*
  Tang, P. H., Kinnick, T. R., Folk, J. C., Mahajan, M., Bassuk, A. G., Tsang, S. H., Mahajan, V. B.
  2018

- **Quantitative progression of retinitis pigmentosa by optical coherence tomography angiography** *SCIENTIFIC REPORTS*
  Jauregui, R., Park, K., Duong, J. K., Mahajan, V. B., Tsang, S. H.
  2018; 8: 13130

- **Personalized Proteomics for Precision Health: Identifying Biomarkers of Vitreoretinal Disease** *TRANSLATIONAL VISION SCIENCE & TECHNOLOGY*
  Velez, G., Tang, P. H., Cabral, T., Cho, G. Y., Machlab, D. A., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
  2018; 7 (5)

- **Personalized Proteomics for Precision Health: Identifying Biomarkers of Vitreoretinal Disease.** *Translational vision science & technology*
  Velez, G., Tang, P. H., Cabral, T., Cho, G. Y., Machlab, D. A., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
  2018; 7 (5): 12

- **Extracellular superoxide dismutase (SOD3) regulates oxidative stress at the vitreoretinal interface** *FREE RADICAL BIOLOGY AND MEDICINE*
  Wert, K. J., Velez, G., Cross, M. R., Wagner, B. A., Teoh-Fitzgerald, M. L., Buettner, G. R., McAnany, J., Olivier, A., Tsang, S. H., Harper, M. M., Domann, F. E., Bassuk, A. G., Mahajan, et al
  2018; 124: 408–19

- **Missense mutation in SLIT2 associated with congenital myopia, anisometropia, connective tissue abnormalities, and obesity** *ORPHANET JOURNAL OF RARE DISEASES*
  Liu, K. Y., Sengillo, J. D., Velez, G., Jauregui, R., Sakai, L. Y., Maumenee, I. H., Bassuk, A. G., Mahajan, V. B., Tsang, S. H.
  2018; 13: 138

- **Deferoxamine-induced electronegative ERG responses** *DOCUMENTA OPHTHALMOLOGICA*
  Jauregui, R., Park, K., Bassuk, A. G., Mahajan, V. B., Tsang, S. H.
  2018; 137 (1): 15–23

- **CRISPR GENOME SURGERY IN THE RETINA IN LIGHT OF OFF-TARGETING** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Cho, G. Y., Schaefer, K. A., Bassuk, A. G., Tsang, S. H., Mahajan, V. B.
  2018; 38 (8): 1443–55

- **HTRA1, an age-related macular degeneration protease, processes extracellular matrix proteins EFEMP1 and TSP1** *AGING CELL*
  Lin, M. K., Yang, J., Hsu, C., Gore, A., Bassuk, A. G., Brown, L. M., Colligan, R., Sengillo, J. D., Mahajan, V. B., Tsang, S. H.
  2018; 17 (4): e12710

- **RPGR-associated retinitis pigmentosa display unique outer retinal and choroidal vascular changes on optical coherence tomography angiography**
  Tang, P., Tsang, S., Bassuk, A., Do, D. V., Mahajan, V. B.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018

- **Gene therapy and genome surgery in the retina** *JOURNAL OF CLINICAL INVESTIGATION*
  DiCarlo, J. E., Mahajan, V. B., Tsang, S. H.
  2018; 128 (6): 2177–88

- **A novel de novo CAPN5 mutation in a patient with inflammatory vitreoretinopathy, hearing loss, and developmental delay** *COLD SPRING HARBOR MOLECULAR CASE STUDIES*
  Velez, G., Bassuk, A. G., Schaefer, K. A., Brooks, B., Gakhar, L., Mahajan, M., Kahn, P., Tsang, S. H., Ferguson, P. J., Mahajan, V. B.
  2018; 4 (3)

- **A novel de novo CAPN5 mutation in a patient with inflammatory vitreoretinopathy, hearing loss, and developmental delay.** *Cold Spring Harbor molecular case studies*
  Velez, G., Bassuk, A. G., Schaefer, K. A., Brooks, B., Gakhar, L., Mahajan, M., Kahn, P., Tsang, S. H., Ferguson, P. J., Mahajan, V. B.
  2018; 4 (3)

- **Translation of CRISPR Genome Surgery to the Bedside for Retinal Diseases** *FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY*
  Xu, C. L., Cho, G. Y., Sengillo, J. D., Park, K. S., Mahajan, V. B., Tsang, S. H.
  2018; 6: 46

- **Caring for Hereditary Childhood Retinal Blindness** *ASIA-PACIFIC JOURNAL OF OPHTHALMOLOGY*
  Jauregui, R., Cho, G. Y., Takahashi, V. L., Takiuti, J. T., Bassuk, A. G., Mahajan, V. B., Tsang, S. H.
  2018; 7 (3): 183–91

- **Acute vitreoretinal trauma and inflammation after traumatic brain injury in mice** *ANNALS OF CLINICAL AND TRANSLATIONAL NEUROLOGY*
  Evans, L. P., Newell, E. A., Mahajan, M., Tsang, S. H., Ferguson, P. J., Mahoney, J., Hue, C. D., Vogel, E. W., Morrison, B., Arancio, O., Nichols, R., Bassuk, A. G., Mahajan, et al
  2018; 5 (3): 240–51

- **Proteomic analysis of the human retina reveals region-specific susceptibilities to metabolic-and oxidative stress-related diseases** *PLOS ONE*
  Velez, G., Machlab, D. A., Tang, P. H., Sun, Y., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
  2018; 13 (2): e0193250

- **CRISPR Repair Reveals Causative Mutation in a Preclinical Model of Retinitis Pigmentosa: A Brief Methodology.** *Methods in molecular biology (Clifton, N.J.)*
  Wu, W. H., Tsai, Y. T., Justus, S., Cho, G. Y., Sengillo, J. D., Xu, Y., Cabral, T., Lin, C. S., Bassuk, A. G., Mahajan, V. B., Tsang, S. H.
  2018; 1715: 191–205

- **Bevacizumab Injection in Patients with Neovascular Age-Related Macular Degeneration Increases Angiogenic Biomarkers.** *Ophthalmology. Retina*
  Cabral, T., Lima, L. H., Mello, L. G., Polido, J., Correa, É. P., Oshima, A., Duong, J., Serracarbassa, P., Regatieri, C. V., Mahajan, V. B., Belfort, R.
  2018; 2 (1): 31–37

- **ProSave: an application for restoring quantitative data to manipulated subsets of protein lists.** *Source code for biology and medicine*
  Machlab, D. A., Velez, G., Bassuk, A. G., Mahajan, V. B.
  2018; 13: 3

- **Fibrin Glue and Internal Limiting Membrane Abrasion for Optic Disc Pit Maculopathy.** *Ophthalmic surgery, lasers & imaging retina*
  Almeida, D. R., Chin, E. K., Arjmand, P., Velez, G., Evans, L. P., Mahajan, V. B.
  2018; 49 (12): e271–e277

- **Autologous stem cell therapy for inherited and acquired retinal disease** *REGENERATIVE MEDICINE*
  Apatoff, M. L., Sengillo, J. D., White, E. C., Bakhoum, M. F., Bassuk, A. G., Mahajan, V. B., Tsang, S. H.
  2018; 13 (1): 89–96

- **Extracellular superoxide dismutase 3 (SOD3) regulates oxidative stress at the vitreoretinal interface.** *Free radical biology & medicine*
  Wert, K. J., Velez, G., Cross, M. R., Wagner, B. A., Teoh-Fitzgerald, M. L., Buettner, G. R., McAnany, J., Olivier, A., Tsang, S. H., Harper, M. M., Domann, F. E., Bassuk, A. G., Mahajan, et al
  2018

- **Therapeutic drug repositioning using personalized proteomics of liquid biopsies.** *JCI insight*
  Velez, G., Bassuk, A. G., Colgan, D., Tsang, S. H., Mahajan, V. B.
  2017; 2 (24)

- **Therapeutic drug repositioning using personalized proteomics of liquid biopsies** *JCI INSIGHT*
  Velez, G., Bassuk, A. G., Colgan, D., Tsang, S. H., Mahajan, V. B.
  2017; 2 (24)

- **Calpain-5 gene expression in the mouse eye and brain.** *BMC research notes*
  Schaefer, K., Mahajan, M., Gore, A., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
  2017; 10 (1): 602

- **Electroretinography Reveals Difference in Cone Function between Syndromic and Nonsyndromic USH2A Patients** *SCIENTIFIC REPORTS*
  Sengillo, J. D., Cabral, T., Schuerch, K., Duong, J., Lee, W., Boudreault, K., Xu, Y., Justus, S., Sparrow, J. R., Mahajan, V. B., Tsang, S. H.
  2017; 7: 11170

- **CRISPR-Cas Genome Surgery in Ophthalmology.** *Translational vision science & technology*
  DiCarlo, J. E., Sengillo, J. D., Justus, S., Cabral, T., Tsang, S. H., Mahajan, V. B.
  2017; 6 (3): 13-?

- **ACANTHAMOEBA ENDOPHTHALMITIS AFTER RECURRENT KERATITIS AND NODULAR SCLERITIS.** *Retinal cases & brief reports*
  Mammo, Z., Almeida, D. R., Cunningham, M. A., Chin, E. K., Mahajan, V. B.
  2017; 11 (2): 180-182

- **Recessive coding and regulatory mutations in FBLIM1 underlie the pathogenesis of chronic recurrent multifocal osteomyelitis (CRMO)** *PLOS ONE*
  Cox, A. J., Darbro, B. W., Laxer, R. M., Velez, G., Bing, X., Finer, A. L., Erives, A., Mahajan, V. B., Bassuk, A. G., Ferguson, P. J.
  2017; 12 (3)

- **Efficacy and safety of voretigene neparvovec (AAV2-hRPE65v2) in patients with RPE65-mediated inherited retinal dystrophy: a randomised, controlled, open-label, phase 3 trial.** *Lancet (London, England)*
  Russell, S., Bennett, J., Wellman, J. A., Chung, D. C., Yu, Z. F., Tillman, A., Wittes, J., Pappas, J., Elci, O., McCague, S., Cross, D., Marshall, K. A., Walshire, et al
  2017

- **Retrospective Analysis of Structural Disease Progression in Retinitis Pigmentosa Utilizing Multimodal Imaging.** *Scientific reports*
  Cabral, T., Sengillo, J. D., Duong, J. K., Justus, S., Boudreault, K., Schuerch, K., Belfort, R., Mahajan, V. B., Sparrow, J. R., Tsang, S. H.
  2017; 7 (1): 10347

- **Genome Surgery and Gene Therapy in Retinal Disorders.** *The Yale journal of biology and medicine*
  Chan, L., Mahajan, V. B., Tsang, S. H.
  2017; 90 (4): 523–32

- **Personalized Proteomics in Proliferative Vitreoretinopathy Implicate Hematopoietic Cell Recruitment and mTOR as a Therapeutic Target** *American Journal of Ophthalmology*
  Roybal, C. N., Velez, G., Toral, M. A., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
  2017: 30521-4

- **Retinal and choroidal angiogenesis: a review of new targets.** *International journal of retina and vitreous*
  Cabral, T., Mello, L. G., Lima, L. H., Polido, J., Regatieri, C. V., Belfort, R., Mahajan, V. B.
  2017; 3: 31

- **Dissection of Human Retina and RPE-Choroid for Proteomic Analysis.** *Journal of visualized experiments : JoVE*

Cabral, T., Toral, M. A., Velez, G., DiCarlo, J. E., Gore, A. M., Mahajan, M., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
2017

- **CRISPR-mediated Ophthalmic Genome Surgery.** *Current ophthalmology reports*
  Cho, G. Y., Abdulla, Y., Sengillo, J. D., Justus, S., Schaefer, K. A., Bassuk, A. G., Tsang, S. H., Mahajan, V. B.
  2017; 5 (3): 199–206

- **Gene Therapy Restores Mfrp and Corrects Axial Eye Length.** *Scientific reports*
  Velez, G., Tsang, S. H., Tsai, Y. T., Hsu, C. W., Gore, A., Abdelhakim, A. H., Mahajan, M., Silverman, R. H., Sparrow, J. R., Bassuk, A. G., Mahajan, V. B.
  2017; 7 (1): 16151

- **Personalized proteomics in proliferative vitreoretinopathy implicate hematopoietic cell recruitment and mTOR as a therapeutic target.** *American journal of ophthalmology*
  Roybal, C. N., Velez, G., Toral, M., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
  2017

- **Limbal Trocar-Cannulas for Complex Vitrectomy Surgery.** *Retina (Philadelphia, Pa.)*
  Mears, K. A., Mahajan, V. B.
  2017

- **Small-angle X-ray scattering of calpain-5 reveals a highly open conformation among calpains** *JOURNAL OF STRUCTURAL BIOLOGY*
  Gakhar, L., Bassuk, A. G., Velez, G., Khan, S., Yang, J., Tsang, S. H., Mahajan, V. B.
  2016; 196 (3): 309-318

- **Reprogramming metabolism by targeting sirtuin 6 attenuates retinal degeneration** *JOURNAL OF CLINICAL INVESTIGATION*
  Zhang, L., Du, J., Justus, S., Hsu, C., Bonet-Ponce, L., Wu, W., Tsai, Y., Wu, W., Jia, Y., Duong, J. K., Mahajan, V. B., Lin, C., Wang, et al
  2016; 126 (12): 4659-4673

- **Management of Pediatric Aphakic Glaucoma With Vitrectomy and Tube Shunts** *JOURNAL OF PEDIATRIC OPHTHALMOLOGY & STRABISMUS*
  Elshatory, Y. M., Gauger, E. H., Kwon, Y. H., Alward, W. L., Boldt, H. C., Russell, S. R., Mahajan, V. B.
  2016; 53 (6): 339-343

- **COMBINED VITRECTOMY AND INTRAVITREAL DEXAMETHASONE (OZURDEX) SUSTAINED-RELEASE IMPLANT** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Zheng, A., Chin, E. K., Almeida, D. R., Tsang, S. H., Mahajan, V. B.
  2016; 36 (11): 2087-2092

- **Catenin delta-1 (CTNND1) phosphorylation controls the mesenchymal to epithelial transition in astrocytic tumors** *HUMAN MOLECULAR GENETICS*
  Yang, J., Bassuk, A. G., Merl-Pham, J., Hsu, C., Colgan, D. F., Li, X., Au, K. S., Zhang, L., Smemo, S., Justus, S., Nagahama, Y., Grossbach, A. J., Howard, et al
  2016; 25 (19): 4201-4210

- **ELEVATED INTRAOCULAR PRESSURE FOLLOWING PARS PLANA VITRECTOMY DUE TO TRAPPED GAS IN THE POSTERIOR CHAMBER.** *Retinal cases & brief reports*
  Chin, E. K., Almeida, D. R., Strohbehn, A. L., Mahajan, V. B., Russell, S. R., Folk, J. C.
  2016; 10 (4): 334-337

- **SURGICAL EMBOLECTOMY FOR FOVEA-THREATENING ACUTE RETINAL ARTERY OCCLUSION.** *Retinal cases & brief reports*
  Almeida, D. R., Mammo, Z., Chin, E. K., Mahajan, V. B.
  2016; 10 (4): 331-333

- **Reprogramming towards anabolism impedes degeneration in a preclinical model of retinitis pigmentosa** *HUMAN MOLECULAR GENETICS*
  Zhang, L., Justus, S., Xu, Y., Pluchenik, T., Hsu, C., Yang, J., Duong, J. K., Lin, C., Jia, Y., Bassuk, A. G., Mahajan, V. B., Tsang, S. H.
  2016; 25 (19): 4244-4255

- **CRISPR Repair Reveals Causative Mutation in a Preclinical Model of Retinitis Pigmentosa** *MOLECULAR THERAPY*
  Wu, W., Tsai, Y., Justus, S., Lee, T., Zhang, L., Lin, C., Bassuk, A. G., Mahajan, V. B., Tsang, S. H.
  2016; 24 (8): 1388-1394

- **BESTROPHIN1 mutations cause defective chloride conductance in patient stem cell-derived RPE** *HUMAN MOLECULAR GENETICS*
  Moshfegh, Y., Velez, G., Li, Y., Bassuk, A. G., Mahajan, V. B., Tsang, S. H.
  2016; 25 (13): 2672-2680

- **Complication of Autologous Stem Cell Transplantation in Retinitis Pigmentosa** *JAMA OPHTHALMOLOGY*
  Boudreault, K., Justus, S., Lee, W., Mahajan, V. B., Tsang, S. H.
  2016; 134 (6): 711-712

- **Calpain-5 Expression in the Retina Localizes to Photoreceptor Synapses** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*
  Schaefer, K. A., Toral, M. A., Velez, G., Cox, A. J., Baker, S. A., Borcherding, N. C., Colgan, D. F., Bondada, V., Mashburn, C. B., Yu, C., Geddes, J. W., Tsang, S. H., Bassuk, et al
  2016; 57 (6): 2509-2521

- **Chronic Recurrent Pseudophakic Endophthalmitis** *JAMA OPHTHALMOLOGY*
  Chin, E. K., Almeida, D. R., Mahajan, V. B.
  2016; 134 (4): 455-456

- **Precision Medicine Personalized Proteomics for the Diagnosis and Treatment of Idiopathic Inflammatory Disease** *JAMA OPHTHALMOLOGY*
  Velez, G., Roybal, C. N., Colgan, D., Tsang, S. H., Bassuk, A. G., Mahajan, V. B.
  2016; 134 (4): 444-448

- **Response to Sandford et al.: PRICKLE2 Variants in Epilepsy: A Call for Precision Medicine** *AMERICAN JOURNAL OF HUMAN GENETICS*
  Mahajan, V. B., Bassuk, A. G.
  2016; 98 (3): 590-591

- **Autism Linked to Increased Oncogene Mutations but Decreased Cancer Rate** *PLOS ONE*
  Darbro, B. W., Singh, R., Zimmerman, M. B., Mahajan, V. B., Bassuk, A. G.
  2016; 11 (3)

- **Precision Medicine: Genetic Repair of Retinitis Pigmentosa in Patient-Derived Stem Cells** *SCIENTIFIC REPORTS*
  Bassuk, A. G., Zheng, A., Li, Y., Tsang, S. H., Mahajan, V. B.
  2016; 6

- **Neuroretinal hypoxic signaling in a new preclinical murine model for proliferative diabetic retinopathy.** *Signal transduction and targeted therapy*
  Wert, K. J., Mahajan, V. B., Zhang, L., Yan, Y., Li, Y., Tosi, J., Hsu, C. W., Nagasaki, T., Janisch, K. M., Grant, M. B., Mahajan, M., Bassuk, A. G., Tsang, et al
  2016; 1

- **Comparison of microbiology and visual outcomes of patients undergoing small-gauge and 20-gauge vitrectomy for endophthalmitis.** *Clinical ophthalmology (Auckland, N.Z.)*
  Almeida, D. R., Chin, E. K., Shah, S. S., Bakall, B., Gehrs, K. M., Boldt, H. C., Russell, S. R., Folk, J. C., Mahajan, V. B.
  2016; 10: 167-172

- **Secondary glaucoma in CAPN5-associated neovascular inflammatory vitreoretinopathy.** *Clinical ophthalmology (Auckland, N.Z.)*
  Cham, A., Bansal, M., Banda, H. K., Kwon, Y., Tlucek, P. S., Bassuk, A. G., Tsang, S. H., Sobol, W. M., Folk, J. C., Yeh, S., Mahajan, V. B.
  2016; 10: 1187-1197

- **Intravitreal Anti-VEGF Injections in Pregnancy: Case Series and Review of Literature** *JOURNAL OF OCULAR PHARMACOLOGY AND THERAPEUTICS*
  Polizzi, S., Mahajan, V. B.
  2015; 31 (10): 605-610

- **Management of Choroidal Granulomas Involving the Macula in Corticosteroid-Intolerant Patients** *JAMA OPHTHALMOLOGY*
  Chin, E. K., Almeida, D. R., Mahajan, V. B.
  2015; 133 (11): 1351-1352

- **CAPN5 mutation in hereditary uveitis: the R243L mutation increases calpain catalytic activity and triggers intraocular inflammation in a mouse model** *HUMAN MOLECULAR GENETICS*
  Wert, K. J., Bassuk, A. G., Wu, W., Gakhar, L., Coglan, D., Mahajan, M., Wu, S., Yang, J., Lin, C., Tsang, S. H., Mahajan, V. B.
  2015; 24 (16): 4584-4598

- **Macular Hole Closure With Internal Limiting Membrane Abrasion Technique** *JAMA OPHTHALMOLOGY*
  Mahajan, V. B., Chin, E. K., Tarantola, R. M., Almeida, D. R., Somani, R., Boldt, H. C., Folk, J. C., Gehrs, K. M., Russell, S. R.
  2015; 133 (6): 635-641

- **Proteomic Insight into the Molecular Function of the Vitreous** *PLOS ONE*

Skeie, J. M., Roybal, C. N., Mahajan, V. B.
2015; 10 (5)

- **Effect of Internal Limiting Membrane Abrasion on Retinal Tissues in Macular Holes** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*
  Almeida, D. R., Chin, E. K., Tarantola, R. M., Folk, J. C., Boldt, H. C., Skeie, J. M., Mullins, R. F., Russell, S. R., Mahajan, V. B.
  2015; 56 (5): 2783-2789
- **Structural Modeling of a Novel CAPN5 Mutation that Causes Uveitis and Neovascular Retinal Detachment** *PLOS ONE*
  Bassuk, A. G., Yeh, S., Wu, S., Martin, D. F., Tsang, S. H., Gakhar, L., Mahajan, V. B.
  2015; 10 (4)
- **Spontaneous dislocation of a fluocinolone acetonide implant (Retisert) into the anterior chamber and its successful extraction in sympathetic ophthalmia.** *Retinal cases & brief reports*
  Almeida, D. R., Chin, E. K., Mears, K., Russell, S. R., Mahajan, V. B.
  2015; 9 (2): 142-144
- **Seizures Are Regulated by Ubiquitin-specific Peptidase 9 X-linked (USP9X), a De-Ubiquitinase** *PLOS GENETICS*
  Paemka, L., Mahajan, V. B., Ehaideb, S. N., Skeie, J. M., Tan, M. C., Wu, S., Cox, A. J., Sowers, L. P., Gecz, J., Jolly, L., Ferguson, P. J., Darbro, B., Schneider, et al
  2015; 11 (3)
- **Quantitative Autofluorescence as a Clinical Tool for Expedited Differential Diagnosis of Retinal Degeneration** *JAMA OPHTHALMOLOGY*
  Marsiglia, M., Lee, W., Mahajan, V. B., Zernant, J., Delori, F. C., Tsang, S. H., Sparrow, J. R.
  2015; 133 (2): 219-220
- **Scleral buckle hemorrhagic cyst masquerading as an orbital tumor.** *Clinical ophthalmology (Auckland, N.Z.)*
  Almeida, D. R., Chin, E. K., Boldt, H. C., Mahajan, V. B.
  2015; 9: 343-345
- **The metabolic syndrome and severity of diabetic retinopathy.** *Clinical ophthalmology (Auckland, N.Z.)*
  Chen, J. J., Wendel, L. J., Birkholz, E. S., Vallone, J. G., Coleman, A. L., Yu, F., Mahajan, V. B.
  2015; 9: 757-764
- **Proteomic Landscape of the Human Choroid-Retinal Pigment Epithelial Complex** *JAMA OPHTHALMOLOGY*
  Skeie, J. M., Mahajan, V. B.
  2014; 132 (11): 1271-1281
- **Spinster Homolog 2 (Spns2) Deficiency Causes Early Onset Progressive Hearing Loss** *PLOS GENETICS*
  Chen, J., Ingham, N., Kelly, J., Jadeja, S., Goulding, D., Pass, J., Mahajan, V. B., Tsang, S. H., Nijnik, A., Jackson, I. J., White, J. K., Forge, A., Jagger, et al
  2014; 10 (10)
- **CAPN5 gene silencing by short hairpin RNA interference.** *BMC research notes*
  Nelson, N. G., Skeie, J. M., Muradov, H., Rowell, H. A., Seo, S., Mahajan, V. B.
  2014; 7: 642-?
- **Incomplete vitreomacular traction release using intravitreal ocriplasmin.** *Case reports in ophthalmology*
  Chin, E. K., Almeida, D. R., Sohn, E. H., Boldt, H. C., Mahajan, V. B., Gehrs, K. M., Russell, S. R., Folk, J. C.
  2014; 5 (3): 455-462
- **DECREASED MACULAR THICKNESS IN NONPROLIFERATIVE MACULAR TELANGIECTASIA TYPE 2 WITH ORAL CARBONIC ANHYDRASE INHIBITORS** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Chen, J. J., Sohn, E. H., Folk, J. C., Mahajan, V. B., Kay, C. N., Boldt, H. C., Russell, S. R.
  2014; 34 (7): 1400-1406
- **Silencing of tuberin enhances photoreceptor survival and function in a preclinical model of retinitis pigmentosa (an american ophthalmological society thesis).** *Transactions of the American Ophthalmological Society*
  Tsang, S. H., Chan, L., Tsai, Y., Wu, W., Hsu, C., Yang, J., Tosi, J., Wert, K. J., Davis, R. J., Mahajan, V. B.
  2014; 112: 103-115
- **A novel RPGR mutation masquerading as Stargardt disease** *BRITISH JOURNAL OF OPHTHALMOLOGY*
  Bassuk, A. G., Sujirakul, T., Tsang, S. H., Mahajan, V. B.

2014; 98 (5): 709-?

- **Translational vitreous proteomics** *PROTEOMICS CLINICAL APPLICATIONS*
  Mahajan, V. B., Skeie, J. M.
  2014; 8 (3-4): 204-208

- **Defective Motile Cilia in Prickle2-Deficient Mice** *JOURNAL OF NEUROGENETICS*
  Sowers, L. P., Yin, T., Mahajan, V. B., Bassuk, A. G.
  2014; 28 (1-2): 146-152

- **PRICKLE1 Interaction with SYNAPSIN I Reveals a Role in Autism Spectrum Disorders** *PLOS ONE*
  Paemka, L., Mahajan, V. B., Skeie, J. M., Sowers, L. P., Ehaideb, S. N., Gonzalez-Alegre, P., Sasaoka, T., Tao, H., Miyagi, A., Ueno, N., Takao, K., Miyakawa, T., Wu, et al
  2013; 8 (12)

- **Proteomic Interactions in the Mouse Vitreous-Retina Complex** *PLOS ONE*
  Skeie, J. M., Mahajan, V. B.
  2013; 8 (11)

- **Combination Therapy for Neovascular Age-related Macular Degeneration Refractory to Anti-Vascular Endothelial Growth Factor Agents** *OPHTHALMOLOGY*
  Tozer, K., Roller, A. B., Chong, L. P., Sadda, S., Folk, J. C., Mahajan, V. B., Russell, S. R., Boldt, H. C., Sohn, E. H.
  2013; 120 (10): 2029-2034

- **Mutations in Extracellular Matrix Genes NID1 and LAMC1 Cause Autosomal Dominant Dandy-Walker Malformation and Occipital Cephaloceles** *HUMAN MUTATION*
  Darbro, B. W., Mahajan, V. B., Gakhar, L., Skeie, J. M., Campbell, E., Wu, S., Bing, X., Millen, K. J., Dobyns, W. B., Kessler, J. A., Jalali, A., Cremer, J., Segre, et al
  2013; 34 (8): 1075-1079

- **Genome-wide Generation and Systematic Phenotyping of Knockout Mice Reveals New Roles for Many Genes** *CELL*
  White, J. K., Gerdin, A., Karp, N. A., Ryder, E., Buljan, M., Bussell, J. N., Salisbury, J., Clare, S., Ingham, N. J., Podrini, C., Houghton, R., Estabel, J., Bottomley, et al
  2013; 154 (2): 452-464

- **Aflibercept Therapy for Exudative Age-related Macular Degeneration Resistant to Bevacizumab and Ranibizumab** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
  Bakall, B., Folk, J. C., Boldt, H. C., Sohn, E. H., Stone, E. M., Russell, S. R., Mahajan, V. B.
  2013; 156 (1): 15-22

- **ELIMINATION OF INFUSION BUBBLES AND UNCONTROLLED REFLUX IN THE ALCON CONSTELLATION VITRECTOMY VISION SYSTEM** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Russell, S. R., Sohn, E. H., Boldt, H. C., Folk, J. C., Tarantola, R. M., Kay, C. N., Mahajan, V. B.
  2013; 33 (4): 803-806

- **Mcph1-Deficient Mice Reveal a Role for MCPH1 in Otitis Media** *PLOS ONE*
  Chen, J., Ingham, N., Clare, S., Raisen, C., Vancollie, V. E., Ismail, O., McIntyre, R. E., Tsang, S. H., Mahajan, V. B., Dougan, G., Adams, D. J., White, J. K., Steel, et al
  2013; 8 (3)

- **PROLIFERATIVE VITREORETINOPATHY MAY BE A RISK FACTOR IN COMBINED MACULAR HOLE RETINAL DETACHMENT CASES** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Cunningham, M. A., Tarantola, R. M., Folk, J. C., Sohn, E. H., Boldt, H. C., Graff, J. A., Elkins, K., Russell, S. R., Mahajan, V. B.
  2013; 33 (3): 579-585

- **INTRAOPERATIVE SCLEROTOMY-RELATED RETINAL BREAKS DURING 23-GAUGE PARS PLANA VITRECTOMY** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Tarantola, R. M., Tsui, J. Y., Graff, J. M., Russell, S. R., Boldt, H. C., Folk, J. C., Mahajan, V. B.
  2013; 33 (1): 136-142

- **Surgical management of fibrotic encapsulation of the fluocinolone acetonide implant in CAPN5-associated proliferative vitreoretinopathy.** *Clinical ophthalmology (Auckland, N.Z.)*

Tlucek, P. S., Folk, J. C., Sobol, W. M., Mahajan, V. B.
2013; 7: 1093-1098

- **Subretinal injection of gene therapy vectors and stem cells in the perinatal mouse eye.** *Journal of visualized experiments : JoVE*
  Wert, K. J., Skeie, J. M., Davis, R. J., Tsang, S. H., Mahajan, V. B.
  2012
- **Disruption of Mouse Cenpj, a Regulator of Centriole Biogenesis, Phenocopies Seckel Syndrome** *PLOS GENETICS*
  McIntyre, R. E., Chavali, P. L., Ismail, O., Carragher, D. M., Sanchez-Andrade, G., Forment, J. V., Fu, B., Velasco-Herrera, M. D., Edwards, A., van der Weyden, L., Yang, F., Ramirez-Solis, R., Estabel, et al
  2012; 8 (11)
- **PROTEOMIC ANALYSIS OF VITREOUS BIOPSY TECHNIQUES** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Skeie, J. M., Brown, E. N., Martinez, H. D., Russell, S. R., Birkholz, E. S., Folk, J. C., Boldt, H. C., Gehrs, K. M., Stone, E. M., Wright, M. E., Mahajan, V. B.
  2012; 32 (10): 2141-2149
- **Inhibition of Neovascularization but Not Fibrosis With the Fluocinolone Acetonide Implant in Autosomal Dominant Neovascular Inflammatory Vitreoretinopathy** *ARCHIVES OF OPHTHALMOLOGY*
  Tlucek, P. S., Folk, J. C., Orien, J. A., Stone, E. M., Mahajan, V. B.
  2012; 130 (11): 1395-1401
- **Calpain-5 Mutations Cause Autoimmune Uveitis, Retinal Neovascularization, and Photoreceptor Degeneration** *PLOS GENETICS*
  Mahajan, V. B., Skeie, J. M., Bassuk, A. G., Fingert, J. H., Braun, T. A., Daggett, H. T., Folk, J. C., Sheffield, V. C., Stone, E. M.
  2012; 8 (10)
- **TEMPORAL APPROACH FOR SMALL-GAUGE PARS PLANA VITRECTOMY COMBINED WITH ANTERIOR SEGMENT SURGERY** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Tarantola, R. M., Graff, J. M., Somani, R., Mahajan, V. B.
  2012; 32 (8): 1614-1623
- **Infrared Imaging and Optical Coherence Tomography Reveal Early-Stage Astrocytic Hamartomas Not Detectable by Fundoscopy** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
  Xu, L., Burke, T. R., Greenberg, J. P., Mahajan, V. B., Tsang, S. H.
  2012; 153 (5): 883-889
- **23-Gauge Pediatric Vitrectomy Using Limbus-Based Trocar-Cannulas** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Kay, C. N., Quiram, P. H., Mahajan, V. B.
  2012; 32 (5): 1023-1027
- **Re: Intraoperative choroidal detachment during 23-gauge vitrectomy.** *Retina (Philadelphia, Pa.)*
  Tarantola, R. M., Mahajan, V. B.
  2012; 32 (2): 411-?
- **Monozygotic twins with CAPN5 autosomal dominant neovascular inflammatory vitreoretinopathy.** *Clinical ophthalmology (Auckland, N.Z.)*
  Rowell, H. A., Bassuk, A. G., Mahajan, V. B.
  2012; 6: 2037-2044
- **Mouse eye enucleation for remote high-throughput phenotyping.** *Journal of visualized experiments : JoVE*
  Mahajan, V. B., Skeie, J. M., Assefnia, A. H., Mahajan, M., Tsang, S. H.
  2011
- **Automated Discovery and Quantification of Image-Based Complex Phenotypes: A Twin Study of Drusen Phenotypes in Age-Related Macular Degeneration** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*
  Quellec, G., Russell, S. R., Seddon, J. M., Reynolds, R., Scheetz, T., Mahajan, V. B., Stone, E. M., Abramoff, M. D.
  2011; 52 (12): 9195-9206
- **INTRAVITREAL BEVACIZUMAB FOR TREATMENT OF PROLIFERATIVE AND NONPROLIFERATIVE TYPE 2 IDIOPATHIC MACULAR TELANGIECTASIA** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Roller, A. B., Folk, J. C., Patel, N. M., Boldt, H. C., Russell, S. R., Abramoff, M. D., Mahajan, V. B.
  2011; 31 (9): 1848-1855

- **Uveitis Following Intravitreal Bevacizumab: A Non-Infectious Cluster** *OPHTHALMIC SURGERY LASERS & IMAGING*
  Kay, C. N., Tarantola, R. M., Gehrs, K. M., Folk, J. C., Mahajan, V. B., Boldt, H. C., Syed, N. A., Russell, S. R.
  2011; 42 (4): 292-296

- **Sutureless Triplanar Sclerotomy for 23-Gauge Vitrectomy** *ARCHIVES OF OPHTHALMOLOGY*
  Mahajan, V. B., Tarantola, R. M., Graff, J. M., Boldt, H. C., Abramoff, M. D., Russell, S. R., Folk, J. C.
  2011; 129 (5): 585-590

- **INTRAOPERATIVE CHOROIDAL DETACHMENT DURING 23-GAUGE VITRECTOMY** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Tarantola, R. M., Folk, J. C., Shah, S. S., Boldt, H. C., Abramoff, M. D., Russell, S. R., Mahajan, V. B.
  2011; 31 (5): 893-901

- **Evisceration of mouse vitreous and retina for proteomic analyses.** *Journal of visualized experiments : JoVE*
  Skeie, J. M., Tsang, S. H., Mahajan, V. B.
  2011

- **Seroreactivity Against Aqueous-Soluble and Detergent-Soluble Retinal Proteins in Posterior Uveitis** *ARCHIVES OF OPHTHALMOLOGY*
  Ko, A. C., Brinton, J. P., Mahajan, V. B., Zimmerman, B., Brinton, G. S., Stone, E. M., Folk, J. C., Mullins, R. F.
  2011; 129 (4): 415-420

- **Mutations in Prickle Orthologs Cause Seizures in Flies, Mice, and Humans** *AMERICAN JOURNAL OF HUMAN GENETICS*
  Tao, H., Manak, J. R., Sowers, L., Mei, X., Kiyonari, H., Abe, T., Dandaleh, N. S., Yang, T., Wu, S., Chen, S., Fox, M. H., Gurnett, C., Montine, et al
  2011; 88 (2): 138-149

- **Dissection of human vitreous body elements for proteomic analysis.** *Journal of visualized experiments : JoVE*
  Skeie, J. M., Mahajan, V. B.
  2011

- **BILATERAL INTRAVITREAL INJECTION OF ANTIVASCULAR ENDOTHELIAL GROWTH FACTOR THERAPY** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Mahajan, V. B., Elkins, K. A., Russell, S. R., Boldt, H. C., Gehrs, K. M., Weingeist, T. A., Stone, E. M., Abramoff, M. D., Liu, D., Folk, J. C.
  2011; 31 (1): 31-35

- **Collagen XVIII Mutation in Knobloch Syndrome With Acute Lymphoblastic Leukemia** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
  Mahajan, V. B., Olney, A. H., Garrett, P., Chary, A., Dragan, E., Lerner, G., Murray, J., Bassuk, A. G.
  2010; 152A (11): 2875-2879

- **Patients With an Acute Zonal Occult Outer Retinopathy-like Illness Rapidly Improve With Valacyclovir Treatment** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
  Mahajan, V. B., Stone, E. M.
  2010; 150 (4): 511-518

- **INTRAVITREAL BEVACIZUMAB DURING PREGNANCY** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Tarantola, R. M., Folk, J. C., Boldt, H. C., Mahajan, V. B.
  2010; 30 (9): 1405-1411

- **Effects of Vitrectomy on Age-Related Macular Degeneration** *OPHTHALMOLOGY*
  Roller, A. B., Mahajan, V. B., Boldt, H. C., Abramoff, M. D., Russell, S. R., Folk, J. C.
  2010; 117 (7): 1381-1386

- **T-cell infiltration in autosomal dominant neovascular inflammatory vitreoretinopathy** *MOLECULAR VISION*
  Mahajan, V. B., Vallone, J. G., Lin, J. H., Mullins, R. F., Ko, A. C., Folk, J. C., Stone, E. M.
  2010; 16 (114-15): 1034-1040

- **Automated Early Detection of Diabetic Retinopathy** *OPHTHALMOLOGY*
  Abramoff, M. D., Reinhardt, J. M., Russell, S. R., Folk, J. C., Mahajan, V. B., Niemeijer, M., Quellec, G.
  2010; 117 (6): 1147-1154

- **Erythropoetin receptor expression in the human diabetic retina.** *BMC research notes*

Shah, S. S., Tsang, S. H., Mahajan, V. B.
2009; 2: 234-?

- **A New Macular Dystrophy With Anomalous Vascular Development, Pigment Spots, Cystic Spaces, and Neovascularization** *ARCHIVES OF OPHTHALMOLOGY*
  Mahajan, V. B., Russell, S. R., Stone, E. M.
  2009; 127 (11): 1449-1457
- **Management of Sympathetic Ophthalmia with the Fluocinolone Acetonide Implant** *OPHTHALMOLOGY*
  Mahajan, V. B., Gehrs, K. M., Goldstein, D. A., Fischer, D. H., Lopez, J. S., Folk, J. C.
  2009; 116 (3): 552-557
- **Estrogen receptor alpha and matrix metalloproteinase 2 polymorphisms and age-related maculopathy in older women** *AMERICAN JOURNAL OF EPIDEMIOLOGY*
  Seitzman, R. L., Mahajan, V. B., Mangione, C., Cauley, J. A., Ensrud, K., Stone, K. L., Cummings, S. R., Hochberg, M. C., Hillier, T., Sinsheimer, J. S., Yu, F., Coleman, A. L.
  2008; 167 (10): 1217-1225
- **Tissue-specific gene expression of head and neck squamous cell carcinoma in vivo by complementary DNA microarray analysis** *ARCHIVES OF OTOLARYNGOLOGY-HEAD & NECK SURGERY*
  Sok, J. C., Kuriakose, M. A., Mahajan, V. B., Pearlman, A. N., Delacure, M. D., Chen, F. A.
  2003; 129 (7): 760-770
- **Microarray analysis of corneal fibroblast gene expression after interleukin-1 treatment** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*
  Mahajan, V. B., Wei, C., McDonnell, P. J.
  2002; 43 (7): 2143-2151
- **Thrombin receptor signaling to cytoskeleton requires Hsp90** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Pai, K. S., Mahajan, V. B., Lau, A., CUNNINGHAM, D. D.
  2001; 276 (35): 32642-32647
- **Creatine kinase, an ATP-generating enzyme, is required for thrombin receptor signaling to the cytoskeleton** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Mahajan, V. B., Pai, K. S., Lau, A., CUNNINGHAM, D. D.
  2000; 97 (22): 12062-12067
- **CONNECTIN - A HOMOPHILIC CELL-ADHESION MOLECULE EXPRESSED ON A SUBSET OF MUSCLES AND THE MOTONEURONS THAT INNERVATE THEM IN DROSOPHILA** *CELL*
  Nose, A., Mahajan, V. B., Goodman, C. S.
  1992; 70 (4): 553-567
- **ACUTE POSTTRANSFUSION FULMINANT HEPATITIS-C VIRUS-INFECTION - A CASE-REPORT** *GASTROENTEROLOGIA JAPONICA*
  Woodfield, D. G.
  1991; 26: 221-223
- **SOLUBILIZATION OF THE PLASMIN RECEPTOR FROM HUMAN CARCINOMA-CELLS** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
  Burtin, P., Fondaneche, M. C.
  1990; 170 (2): 748-754