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Identifying the Roles of Interferon-Gamma Inducible Chemokines in Progression of Age-related Macular Degeneration (AMD)

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Inhibition of Ocular Tumor Cell Growth With RTFE-1 Peptide Fragment

James D. Akula1,2, Toco Y. Chiu1,2, David P. Bissig3,4, Bruce A. Berkowitz3,4,8. 1Ophthalmology, Children’s Hospital Boston, Boston, MA; 2Ophthalmology, Harvard Medical School, Boston, MA; 3Anatomy and Cell Biology, 4Ophthalmology, 8Wayne State University School of Medicine, Detroit, MI.

A New Focus on Refraction in the “ROP Rat”

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Albert H. Alhatem1, Uli H. von Andrian7, Pedram Hamrah1,2, 7Cornea Service and Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 1Immune Disease Institute, Program in Cellular and Molecular Medicine at Children’s Hospital Boston, Harvard Medical School, Boston, MA.

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R R. Allingham1, Yuta Liu2, Jason Gibson2, Joshua Wheeler2, Xuejun Qiu2, Christopher A. Girkin2, Stephen K. Akaf1, Allison E. Ashley-Koch2, POAG African American Study Group, Michael A. Hauser1,1. Ophthalmology, Duke University Eye Center, Durham, NC; 2Medicine, Duke University Medical Center, Durham, NC; 3Ophthalmology, Univ of Alabama at Birmingham, Birmingham, AL; 4Surgery, University of Ghana Medical School, Korle Bu, Ghana; 5Ophthalmology & Medicine, Duke Univ Medical Center, Durham, NC.

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Samer N. Arafat1,2, Anita N. Shukla1, Claes H. Dahlman1, James Chodosh1, Joseph B. Ciavino1. 1Massachusetts Eye and Ear Infirmary, Department of Ophthalmology, Harvard Medical School, Boston, MA; 2Schein Eye Research Institute, Massachusetts Eye and Ear Infirmary, Department of Ophthalmology, Harvard Medical School, Boston, MA.

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Joseph F. Arboleda-Velasquez, Alexandra M. James, Patricia A. D’Amore. Scheepens Eye Research Institute, Boston, MA.

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Pichapon Artornsombudh1,2, Ofelya Gevorgyan1, Abhishek Payal1, Sana Siddique1, Charles S. Foster1,2,3. 1Massachusetts Eye Research and Surgery Institution, Cambridge, MA; 2University of Pennsylvania, Philadelphia, PA; 3Harvard Medical School, Boston, MA.

Infliximab treatment of birdshot retinochoroidopathy
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Neda Baniasadi1, Eleftherios I. Paschalis1, Johannes F. De Boer1, Teresa C. Chen1. 1Ophthalmology, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston, MA; 2Ophthalmology, VU university, Amsterdam, The Netherlands. Analysis of Spectral Domain Optical Coherence Tomography Retinal Nerve Fiber Layer Thickness Patterns in Different Subtypes of Open Angle Glaucoma

Petr Y. Baranov1, Gustavo B. Mejo2, Michael J. Young3. 1Schepens Eye Research Institute, Boston, MA; 2Ophthalmology, Federal Univ of Sao Paulo/UNIFESP, Araçatuba, Brazil; 3Schepens Eye Research Inst, Harvard Medical School, Boston, MA. Characterization Of Human Retinal Progenitor Cells

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Alain M. Bauza1, Parisa Emami-naeini2, Nishant G. Soni3, Paul D. Langer4, Marco A. Zarbin5, Neelakshi Bhagat1. 1Institute of Ophthalmology & Visual Science, New Jersey Medical School, Newark, NJ; 2Ophthalmology, Schepens Eye Research Institute, Boston, MA. Demographics and Outcomes of Vitreo-retinal Surgeries in Eyes with Assault-Related Open Globe Injuries

Sebastien Besner2, Giuliano Scarcelli3, Roberto Pineda, Ii1, Seok H. Yun1. 1Wellman Center for Photomedicine, Harvard Medical School, Boston, MA; 3Ophthalmology, Mass Eye & Ear Infirmary, Boston, MA. In Vivo Biomechanical Imaging of the Human Eye with Brillouin Microscopy


Anna M. Blonska1, Roberta Secondi2, Giovanni Staurenghi3, Francois C. Delori1, Janet R. Sparrow3. 1Department of Ophthalmology, Columbia University, New York, NY; 2Dept of Clinical Science, Eye Clinic Sacco Hospital, Milan, Italy; 3Ophthalmology, Schepens Eye Research Institute, Boston, MA. Quantitative Assessment of Autofluorescence in Mice Using Scanning Laser Ophthalmoscopy

Sara J. Bowne1, Lori S. Sullivan1, Jennifer D. Churchill1, Susan H. Blanton2, Dianna K. Wheaton3, David G. Birch4, Kari E. Branham5, John R. Heckenlively6, Eric A. Pierce7, Stephen P. Daiger2. 1Human Genetics Center, Univ of Texas Health Science Ctr, Houston, TX; 2Hussman Institute of Human Genomics, Univ. of Miami, Miami, FL; 3The Retina Foundation of the Southwest, Dallas, TX; 4Ophthal & Vis Sciences, Univ of Michigan-Kellogg Eye Ctr, Ann Arbor, MI; 5Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA. Genome-Wide Linkage Analysis For Gene Discovery In Autosomal Dominant Retinitis Pigmentosa


Irene Bravo-Osuna2, Ashley Woodward2, Pablo Argueso2, Irene Teresa Molina Martínez2, R Gómez2, FJ de la Mata3, Manuel Muzmán Navarro4, Magali Noiray5, Gilles Poncheil6, Rocio Herrero-Vanrell7. 1Pharmaceutical Technology, University Complutense of Madrid, Madrid, Spain; 2Department of Ophthalmology, Schepens/Harvard University, Boston, MA; 3Dept. of Inorganic Chemistry, School of Pharmacy, University of Alcalá (UAH), Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain; 4Dept. of Pharmaceutical Technology, School of Pharmacy, University of Alcalá (UAH), Madrid, Spain; 5CNRS UMR 8612 Laboratoire de Physicochimie, Pharmacoctenie et Biopharmacie, Université de Paris Sud, Paris, France. Linear Polymers Versus PAMAM Dendrimers In The Interaction With Transmembrane Ocular Mucins: Analysis By Biosensor Technology

Irene Bravo-Osuna2, Ashley Woodward2, Pablo Argueso2, Irene Teresa Molina Martínez2, R Gómez2, FJ de la Mata3, Manuel Muzmán Navarro4, Magali Noiray5, Gilles Poncheil6, Rocio Herrero-Vanrell7. 1Pharmaceutical Technology, University Complutense of Madrid, Madrid, Spain; 2Department of Ophthalmology, Schepens/Harvard University, Boston, MA; 3Dept. of Inorganic Chemistry, School of Pharmacy, University of Alcalá (UAH), Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain; 4Dept. of Pharmaceutical Technology, School of Pharmacy, University of Alcalá (UAH), Madrid, Spain; 5CNRS UMR 8612 Laboratoire de Physicochimie, Pharmacoctenie et Biopharmacie, Université de Paris Sud, Paris, France. Linear Polymers Versus PAMAM Dendrimers In The Interaction With Transmembrane Ocular Mucins: Analysis By Biosensor Technology

Fabiano Cade1,2, Eleftherios Paschalis1, Caio V. Regatieri1,2, Reza Dana1,2, Claes H. Dohlman3. 1Cornea and Refractive Surgery, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston, MA; 2Ophthalmology, Federal Sao Paulo University, Sao Paulo, Brazil; 3Schepens Eye Research Institute, Harvard Medical School, Boston, MA. Retinal Damage in Severe Chemical Burn and the Use of Infliximab Therapy

Alison B. Callahan1, James Hoffman1, John D. Pemberton2, John Nguyen3, Jennifer Sivak3, Tory Weathersford4, Edward J. Wladi5, Aaron Fay4. 1Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 2Ophthalmology, University of Arkansas for Medical Sciences, Little Rock, AR; 3Ophthalmology, West Virginia University Eye Institute, Morgantown, WV; 4Ophthalmology, Lions Eye Institute, Albany Medical College, Albany, NY. Prophylactic Post-Operative Antibiotics in Enucleation and Evisceration: A 10-year Multicenter Retrospective Chart Review
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Laura Contreras-Ruiz, Nelly S. Cruz, Laura Gosh-Mitra, Bruce Turpie, Marie Shatos, Delarla A. Dartt, Sharmila Masli. Schepens Eye Research Inst and Massachusetts Eye and Ear, Department of Ophthalmology, Harvard Medical School, Boston, MA. Inflammatory Cytokines in Thrombospondin-1 Deficient Conjunctiva Block Goblet Cell Mucin Secretion


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Frances J. Corkin1,2, Ronald M. Hansen3, Margaret A. Kenna1,2, Heidi L. Rehm4, Anne Moskowitz3, Abigail Wilkins4, Anne B. Fulton1,2. Ophthalmology, Otolaryngology, Children’s Hospital Boston, Boston, MA; 2Genetic Medicine, Partners Healthcare, Boston, MA. Scopitic Sensitivity in Pediatric Patients with Usher Syndrome

Tessa Crow1, Natalia Surzenko2, Larysa Pevny3. 1Genetics and Molecular Biology, University of North Carolina- Chapel Hill, Chapel Hill, NC; 2Harvard University, Boston, MA. SOX2 Maintains the Quiescence of Müller Gial Cells

Nelly M. Cruz1, Yang Yuan2, Rinku Baid3, Uday Kompella4, Neena B. Haider5. 1Scheepens Eye Research Institute, Massachusetts Eye and Ear, Harvard Medical School, Boston, MA; 2Genetics, Cell Biology & Anatomy, Univ of Nebraska Medical Ctr, Omaha, NE; 3Department of Pharmaceutical Sciences, University of Colorado Denver, Aurora, CO. Efficacy of Nanoparticle-based Gene Delivery for Rescuing Nr2e3 Associated Retinal Degeneration

Borja Salvador Culla1, Irmgard Behlau1, Rony R. Sayegh1, François Delori3, Claes H. Dohlman4. 1Cornea - Keratoprosthesis, Massachusetts Eye & Ear Infirmary, Boston, MA; 2Scheepens Eye Research Institute, Boston, MA. Light-induced Maculopathy After Keratoprosthesis Surgery - True Or False?

Zeina Dagher1,2, Joseph Vaz1, Michael Goodridge1, Leona E. Ling2, Mara Lorenzini1,2, Chiara Gerhardinger1,2. 1Scheepens Eye Research Institute, Massachusetts Eye and Ear, Boston, MA; 2Harvard Medical School, Boston, MA; 3Biogen Idec, Cambridge, MA. Constitutive Signaling Through the TGF-β Receptor I ALKS is Required for Pericyte Survival in Adult Retinal Vessels

Darlene A. Dartt1,2, Robin R. Hodges1,2. 1Scheepens Eye Research Institute, Boston, MA; 2Department of Ophthalmology, Massachusetts Eye and Ear, Harvard Medical School, Boston, MA. Activation Of P2X7 Receptors In Lacrimal Gland Acini Increases Protein Secretion, But Not Cellular Permeability Or IL-1beta Secretion

Robin Kelleher Davis2, Pablo Argueso1, Juliet R. Giovannfri2, David A. Sullivan1. Ophthalmology, Scheepens Eye Research Inst. and Mass. Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 2Dept. of Clinical Sciences, Colorado State University, Fort Collins, CO. Chromatographic Analysis of Carbohydrate Profiles in Tears from Marine Mammals, Camelids and Humans

Maite Sainz de la Maza1, Nicolas Molina1, Luis A. Gonzalez-Gonzalez2, Priyanka P. Doctor3, Joseph Tauber4, Stephen Foster5. 1Instituto Clinico Oftalmologia, Hospital Clinico Oftalmologia, Barcelona, Spain; 2Ophthalmology, Massachusetts Eye Research and Surgery Institution, Cambridge, MA; 3Ophthalmology, BayWiew Clinic, Mumbai, India; 4Ophthalmology, Tauber Eye Center, Kansas City, MO; 5Ophthalmology, Harvard Medical School, Boston, MA. Scleritis Associated with Inflammatory Bowel Disease

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Claes H. Dohlman, Rony R. Sayegh. Ophthalmology, Massachusetts Eye & Ear Infirmary, Boston, MA. Wide-angle Fundus Imaging Through The Boston Keratoprosthesis

Thomas H. Dohlman, Shilpa Kodati, Jing Hua, Yihe Chen, Sunil K. Chauhan, Reza Dana. Scheepens Eye Research Institute, Harvard Medical School, Boston, MA. Th17 Cell-associated Chemokine Receptor and Ligand Expression in Dry Eye Disease
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1 Ophthalmology, Columbia University, New York, NY; 2 Schepens Eye Research Institute, Harvard Medical School, Boston, MA.

Quantitative Autofluorescence (qAF) in Best Vitelliform Macular Dystrophy

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1 Ophthalmology, Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Boston, MA; 2 Ophthalmology, Tokyo Medical University, Shinjuku, Japan; 3 MEEI/SERI Harvard Ophthalmology, Boston, MA.

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1 Ophthalmology, Massachusetts Eye & Ear Infirmary, Boston, MA; 2 Ophthalmology, MEEI Harvard, Boston, MA.

Surgeal results of epiretinal membrane peel operations done by vitreoretinal fellows at the Massachusetts Eye and Ear Infirmary

NEIGHBOR consortium investigators.
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Michael H. Farkas, Greg Grant, Maria Sousa, Eric A. Pierce.
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1 Ophthalmology, Children’s Hospital Boston, Boston, MA; 2 Biology, Boston University, Boston, MA; 3 Ophthalmology, Harvard Medical School, Boston, MA.

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Glucoma, Massachusetts Eye and Ear Infirmary, Boston, MA.

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R D. Ferguson, Daniel X. Hammer, Mircea Mujat, Nicușor Iftimia, James D. Akula.
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Thomas A. Fuchsburger, Ula V. Jurkunas, Andrius Kazlauskas, Reza Dana.
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Viral Vectors For Gene Transfer To Corneal Endothelial Cells

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**Chiara Gerhardinger**, Yang Liu, Zeina Dagher. Schepens Eye Research Institute Massachusetts Eye and Ear, Boston, MA; Harvard Medical School, Boston, MA.

*Overexpression of IL-1 Receptor Antagonist in the Ret Rat by AAV2-mediated Gene Transfer Prevents Capillary Loss in Experimental Diabetes*

**Marcus D. Gingerich**, Roman Akhmechet, Stuart F. Cogan, Timothy D. Plante, Douglas B. Shire, John L. Wyatt, Jr., Joseph F. Rizzo, III.

VA Boston Healthcare System, Boston, MA; CNF/Cornell University, Ithaca, NY; Ophthalmology, Mass Eye & Ear Infirmary, Boston, MA; EIC Laboratories, Norwood, MA; Electrical Engineering, MIT, Cambridge, NY.

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**Ernesto D. Golea**, Tarek A. Shazly, Alessandro Porta, Fabio Ferentini, Mark A. Latina.

Ophthalmology, Massachusetts Eye and Ear Infirmary, Reading, MA; Ophthalmology, MEEI / HMS, Reading, MA; Ophthalmology, Eye Unit, Ospedale "C. Cantu", Abbiategrasso, Italy; Reading Health Center, Reading, MA.

*The Cost Effectiveness And Duration Of Effectiveness Of SLT As Primary And Secondary Therapy Relative To Medications In The Treatment Of Primary Open Angle Glaucoma*

**Maria B. Grant**, Ashay Bhatwadekar, Ping Hu, Sugata Hazra, Sergio Caballero, Susanne Mohr, Steven F. Abcouwer, Daniel R. Saban, Taioli Chan-Ling, Julia V. Busik. Pharmacology and Therapeutics, University of Florida, Gainesville, FL; Department of Anatomy, University of Sydney, Campedown, Australia; Department of Physiology, Physiology, Michigan State University, East Lansing, MI; Ophthalmology & Visual Science, Univ of Michigan Kellogg Eye Ctr, Ann Arbor, MI; Schepens Eye Research Institute, Harvard Medical School, Boston, MA; Anatomy, University of Sydney, Australia.

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**Naina Gupta**, Demetrios Vavvas. Massachusetts Eye and Ear Infirmary, Boston, MA; Ophthalmology, MEEI Harvard, Boston, MA.

*Success of Fellow Performed Macular Hole Surgery without Internal Limiting Membrane Peel and with Limited Positioning*


*SPARC Is Not Involved In Latanoprost-induced Changes In Intraocular Pressure, Nor In Trabecular Meshwork Or Ciliary Body Smooth Muscle Cells*

**Pedram Hamrah**, Yureeda Qazi, Caroline A. Blackie, Donald R. Korb. Ocular Surface Imaging Center, Cornea Service, Department of Ophthalmology, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston, MA; Krob and Associates, Boston, MA; Tearscience, Boston, MA.

*Subclinical Inflammation May Explain The Persistence Of Refractory Dry Eye Symptoms After Apparently Successful Treatment For Meibomian Gland Dysfunction*

**Colman J. Hatton**, Jing Chen, Aimee Juan, Christian G. Hurst, Dorothy T. Pei, Andreas Stahl, Przemyslaw Mike Sapieha, Jean-Sebastien Joyal, Dan Xu, Lois E. Smith. Ophthalmology, Children’s Hospital Boston, Boston, MA; Ophthalmology, Harvard Med Sch Children's Hosp, Boston, MA; Univ Eye Hospital Freiburg, Freiburg, Germany; Ophthalmology, University of Montreal, Montreal, QC, Canada; Ophthalmology, Children’s Hospital, Harvard Med Sch, Boston, MA; Ophthalmology, Harvard Univ/Childrens Hospital, Boston, MA.

*Characterization of the Dishevelled Family Proteins in Oxygen-Induced Retinopathy*

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*Prolongation of Proparacaine Corneal Anesthesia by an In Situ Cross Linked Hydrogel of Carboxymethylcellulose*
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Analysis of Peripapillary Choroidal Thickness in Glaucoma and Normal Patients via Spectral Domain Optical Coherence Tomography

Robin R. Hodges1,2, Richard B. Carrozza1,2, Jeffrey A. Bair1,2, Dayu Li1,2, Marie A. Shatos1,2, Darlene A. Dارت1,2. 1Schepens Eye Research Institute, Boston, MA; 2Massachusetts Eye and Ear, Boston, MA.

Muscarnic and EGF Receptors Activate The EGF Receptor In Cultured Rat Conjunctival Goblet Cells To Increase Intracellular [Ca2+] And Stimulate Mucin Secretion

Kai Hu1, Homayon Ghiasi2, Ulrich H. Von Andrian3, Pedram Hamrōh1,4. Ophthalmology, Massachusetts Eye & Ear Infirmary, Boston, MA; 2Surgery/Ophthal Research, Cedars-Sinai Medical Center, Los Angeles, CA; 3Immune Disease institute, Boston, MA; 4Immune Institute Disease, Boston, MA.

Corneal Dendritic Cells Suppress Local Corneal Damage and Mediate Systemic Viral Dissemination in Herpes Simplex Keratitis

Rachel M. Huckfeldt, Eugene Shildkrot, Anne Marie Lane, Evangelos Gragoudas, Joan W. Miller. Retina Service, Department of Ophthalmology, Massachusetts Eye and Ear Infirmary and Harvard Medical School, Boston, MA.

Proton Beam Irradiation for Choroidal Neovascularization: Long-term Prevalence of Radiation Retinopathy

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Outcomes Of TNF Alpha Inhibitor Therapy In Juvenile Idiopathic Arthritis Associated Uveitis

Christian G. Hurst1, Jing Chen1, Andreas Stahl1,2, Nathan M. Krahl1, Jean-Sebastien Joyal1, Aimee M. Juan1, Colman J. Hatton1, Dorothy T. Pei1, Przemyslaw Sapieha1,2, Lois E. Smith1. 1Dept. of Ophthalmology, Harvard Medical School, Children’s Hospital Boston, Boston, MA; 2University Eye Hospital Freiburg, Freiburg, Germany; 3Dept. of Ophthalmology, Maisonneuve-Rosemont Hospital Research Centre, University of Montreal, Montreal, QC, Canada.

Retinal Expression Of Wnt-pathway Mediated Genes In Low-density Lipoprotein Receptor-related Protein 5 (Lrp5) Knockout Mice

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Corneal Epithelium Stimulates Fibrosis in a 3D Corneal Fibroblast Model

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Ophthalmology Inpatient Consultations For Patients With Acute And Chronic Leukemia At A Boston Tertiary Care Hospital

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Reading Performance With A Video Magnifier In Patients With Central Field Loss

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Electrical Stimulation Of Retinal Ganglion Cells In Degenerate Rat Retina With A Small Subretinal Electrode

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Functional And Anatomic Evaluation Of Retinal Progenitor Cells Transplanted Into The Subretinal Space Of Rhodopsin Knockout Mice

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Resolvin D1 Stable Analog Promotes Corneal Allograft Survival

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Lipid-derived Energy Shortage Precedes Subretinal Neovascularization In A Mouse Model Of Mactel

★ Jean-Sebastien Joyal1, Jing Chen1, Aimee Juan1, Colman J. Hatton1, Dorothy Pei1, Christian Hurst1, Molly R. Seaward1, Patrick Bherer2, Bruno Maranda2, Lois E. Smith1. 1Ophthalmology, Harvard University, Childrens Hospital, Boston, MA; 2Genetics, Université de Sherbrooke, Sherbrooke, QC, Canada.
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A Multicenter Study Analysing Weight Gain to Predict Retinopathy of Prematurity

Wendy R. Kam, Shaohui Liu, David A. Sullivan. Schepens Eye Research Institute, Massachusetts Eye and Ear, Harvard Medical School, Boston, MA.

Influence of Proliferation and Differentiation on Lipid Accumulation and Gene Expression in Human Meibomian Gland Epithelial Cells

Min Hyung Kang, Dong-Jin Oh, Ayan Chatterjee, Douglas J. Rhe. Department of Ophthalmology, Harvard Medical School/MEEI, Boston, MA.

Testican-1 (SPOCK-1) is differentially expressed in Human Ciliary Body and Trabecular Meshwork

Kishore Reddy Katikireddy, Reza Dana, Ula V. Jurkunas. Schepens Eye Research Institute, Massachusetts Eye and Ear Inifirm, Harvard Medical School, Boston, MA.

Differentiation Potential Of Human Limbal Fibroblasts To Corneal Epithelial-like Cells

Shawn K. Kelly7, William F. Ellersick8, Attila Priplata3,4, Douglas B. Shire5,6, John L. Wyatt4, Joseph F. Rizzo4, III5.1 Center for Innovative Visual Rehab, VA Boston Healthcare System, Boston, MA;2 Analog Circuit Works, Sudbury, MA;3 Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, MA;4 Cornell University, Ithaca, NY;5 Ophthalmology, Mass Eye & Ear Infirmary, Boston, MA.

Power and Data Telemetry Developments for a Retinal Implant

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Genome-Wide Expression Profiling in the Retina of Vldlr Knockout Mouse

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Identification of a VEGF-independent and Plasma Kallikrein-Kinin-dependent pathway of retinal vascular permeability in Diabetic Macular Edema

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Identification of Lubricin Protein and mRNA expression at the Human Ocular Surface

Shilpa Kodadi1, William Stevenson1, Masahiro Omoto1, Takaaki Hattori2,1, Thomas H. Dohlman1, Daniel R. Saban1, Sunil K. Chauhan1, Reza Dana1.1 Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 2 Ophthalmology, Tokyo Medical University, Shinjuku, Japan.

The Effect of IL-6 Neutralization on Corneal Allograft Survival

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When Lightening Strikes Twice: Seven cases of Stevens-Johnson Syndrome and Corneal Ectasia

Achim H. Krauss1,2, Francisco Amparo2, Andre Okanobo2, David C. Gale1,2, Thomas C. Wilde1,2, Caroline Sychterz1,2, Rachel Apfelbaum3, Pratik Saha1, Jennifer Cermak1, Reza Dana1.2 Ophthalmology, 1 DAMPK, 2 GlaxoSmithKline, King of Prussia, PA; 3 Schepens Eye Research Institute, Boston, MA;4 Product Development, GlaxoSmithKline, Collegeville, PA;5 Sirtris a GSK Company, Cambridge, MA.

Improvement Of Corneal Staining By A Sirt1 Activator In A Mouse Model Of Dry Eye

Christine N. Pham Lagler2, Wuqaas M. Munir2, Melissa M. Wong1, Anita N. Shukla2, 1 Ophthalmology, Boston University Medical Center, Boston, MA; 2 Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA.

Use of Anterior Segment Optical Coherence Tomography as an Adjunctive Modality for Predicting Corneal Volume
Eric Lopalme\textsuperscript{1}, Flavio Rezende\textsuperscript{2}, Sandra Favret\textsuperscript{1}, François Binet\textsuperscript{1}, Gaëlle Mawambo\textsuperscript{1}, John Paul P. SanGiovanni\textsuperscript{2}, Andreas Stahl\textsuperscript{3}, Lois E. Smith\textsuperscript{4}, Przemyslaw Sapieha\textsuperscript{1, 3}. Ophthalmology, Hopital Maisonneuve-Rosemont, Montreal, QC, Canada; \textsuperscript{2}Clinical Trials Branch, National Eye Institute/NIH, Bethesda, MD; \textsuperscript{3}Univ Eye Hospital Freiburg, Freiburg, Germany; \textsuperscript{4}Ophthalmology, Harvard Univ/Childrens Hospital, Boston, MA.

The Omega-3 Fatty Acid Metabolite 4-HDHA Reduces VEGF-Induced Choroidal Neovascularization in a VEGFR2-independent manner

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Impact of PROSE Treatment of the Ocular Sequelae of Stevens-Johnson Syndrome

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\textit{In Vivo} Confocal Microscopy Study Of Conjunctival Intraepithelial Neoplasia Treated With Interferon-alpha2b

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Community Acquired Methicillin-Resistant Staphylococcus aureus periorbital abscesses are transmissible between members of the same household

Hetian Lei\textsuperscript{1}, Marc-André Rheaume\textsuperscript{2}, Jing Z. Cui\textsuperscript{3}, Shizuo Mukai\textsuperscript{2}, David Maberley\textsuperscript{2}, Arif Samad\textsuperscript{2}, Joanne A. Matsubara\textsuperscript{3}, Andrius Kazlauskas\textsuperscript{1}. Ophthalmology of Harvard Medical School, Schepens Eye Research Institute/Massachusetts Eye & Ear Infirmary, Boston, MA; \textsuperscript{4}Ophthalmology of Harvard Medical School, Massachusetts Eye & Ear Infirmary, Boston, MA; \textsuperscript{5}Ophthalmology & Visual Sciences, University of British Columbia, Vancouver, BC, Canada; \textsuperscript{6}Ophthalmology & Visual Sciences, Dalhousie University, Halifax, NS, Canada.

A Novel Function of p53: A Gatekeeper of Retinal Detachment

Luis A. Lesmes\textsuperscript{1}, Jennifer Wallis\textsuperscript{2}, Zhong-Lin Lu\textsuperscript{3}, Mary Lou Jackson\textsuperscript{2}, Peter Bex\textsuperscript{1}. \textsuperscript{1}Harvard Dept of Ophthalmology, Schepens Eye Research Institute, Boston, MA; \textsuperscript{2}Harvard Dept of Ophthalmology, Massachusetts Eye & Ear Infirmary, Boston, MA; \textsuperscript{3}LOBES, Dept of Psychology, Ohio State University, Columbus, OH.

Clinical Application Of A Novel Contrast Sensitivity Test To A Low Vision Population: The Quick CSF Method

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A Correlation Study between a Bipolar Cell’s Morphology and Its Photoreceptor Connectivity in the Zebrafish Retina

Cailing Liu, Thore Schmedt, Ula Jurkunas. Schepens / Massachusetts Eye and Ear, Harvard Medical School, Boston, MA.

The Role Of DJ-1 In Nrf2-regulated Antioxidant Defense In Human Corneal Endothelial Cells

Qín Liu, Eric A. Pierce. Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA.

Identification Of Rp1 Interacting Proteins Using \textit{In Vivo} Affinity Purification Approaches

Yao Liu\textsuperscript{1, 2}, Dagny C. Zhu\textsuperscript{1, 2}, Anne M. Lane\textsuperscript{1, 2}, Justin M. Kanoff\textsuperscript{2, 8}, Sona Chaudhry\textsuperscript{3}, Ankoor S. Shah\textsuperscript{1, 5}. \textsuperscript{1}Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; \textsuperscript{2}Harvard Medical School, Boston, MA; \textsuperscript{3}Ophthalmology, Children’s Hospital Boston, Boston, MA.

Assessment of Injury-Related Knowledge and Education in Patients Following Open-Globe Injury

Alice C. Lorch, Jennifer Wallis, Danielle Trief, Mary Lou Jackson. Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA.

Outcomes Of Vision Rehabilitation In Patients With Low Vision Who Do, Or Do Not, Participate In Occupational Therapy

Mara Lorenzi\textsuperscript{1, 2}, Lucía Sobrín\textsuperscript{1, 2}. \textsuperscript{1}Schepens Eye Research Institute, Massachusetts Eye and Ear, Boston, MA; \textsuperscript{2}Harvard Medical School, Boston, MA; \textsuperscript{3}Retina/Uveitis, Mass Eye & Ear Infirmary, Boston, MA.

Pilot Validation of a Marker of Risk for Development of Diabetic Retinopathy

\textbf{★} Jie Ma\textsuperscript{1}, Chenying Guo\textsuperscript{1}, Guochun Chen\textsuperscript{1}, Desirée Cyr\textsuperscript{1}, Kameran Lashkari\textsuperscript{1, 5}. \textsuperscript{1}Schepens Eye Research Institute, Boston, MA; \textsuperscript{2}The second Xiangya Hospital, Central South University, Changsha, China; \textsuperscript{3}Massachusetts Eye & Ear Infirmary, Boston, MA.

Transfection of IGF-1 and IGBP-1 in Neuronal Progenitor Cells from Human Persistent Fetal Vascular for Neuroprotection

Mirgholamreza Mahbod\textsuperscript{1, 2}, Bernardo Cavalcanti\textsuperscript{1}, Andrea Cruzan\textsuperscript{1}, Monique Trinidad\textsuperscript{1}, Candice Williams\textsuperscript{1}, Pedram Hamrah\textsuperscript{1}.

\textit{In Vivo} Laser Confocal Microscopic Findings of Palisades of Vogt in Normal Subjects and Patients with Ocular Surface Disease
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Muhammad Taimur A. Malik, Rajesh C. Rao, Chenying Guo, Justin Chew, Xiaoling jiao, Dong Feng Chen. Schepens Eye Research Institute/Massachusetts Eye and Ear, Department of Ophthalmology, Harvard Medical School, Boston, MA; Department of Ophthalmology and Visual Sciences, Washington University School of Medicine, St. Louis, MO; Department of Ophthalmology, Beijing University First Hospital, Beijing, China; VA Center for Innovative Visual Rehabilitation, RR&D Center of Excellence, VA Boston Healthcare System, Boston, MA.

Epigenetic Regulation of Wnt signaling to mediate Müller Cell Survival and Proliferation

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The Effect of Desiccating Environmental Stress on Spdef Null Mice that Lack Conjunctival Goblet Cells

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Modulation of Ocular Surface Barrier Function by Galectin-3

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Tissue Necrosis Following Diode Laser-Assisted Transcanalicular Dacryocystorhinostomy

Bruce W. McKee, Marcus D. Gingerich, Stuart F. Cogan, Douglas B. Shire, John L. Wyatt, Joseph F. Rizzo, III. Center for Innovative Visual Rehabilitation, VA Boston Health Care System, Boston, MA; Cornell NanoScale Science & Technology Facility, Cornell University, Ithaca, NY; Elion Laboratories, Norwood, MA; Electrical Engineering, Massachusetts Institute of Technology, Cambridge, MA; Ophthalmology, Mass Eye & Ear Infirmary, Boston, MA.

A Microfabricated Chronic Percutaneous Penetrating Electrode Array for a Subretinal Prosthesis

Balraj B. Menon, Bharathi Govindarajan, Sandra Spurr-Michaud, Ilene K. Gipson. Ophthalmology, Schepens Eye Research Institute, Massachusetts Eye and Ear, Harvard Medical School, Boston, MA.

Characterization of a Truncated and More Potent Zinc Metalloprotease, ZmpC, from Streptococcus pneumoniae that Abrogates the MUC16 Barrier in Ocular Surface and Tracheal-Bronchial Epithelial Cells

John B. Miller, Rajesh C. Rao, Netan Choudhry, David M. Wu, Gaurav K. Shah, Demetrios Vavvas, Shizuo Mukai, Dean Elliott. Harvard Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; Department of Ophthalmology and Visual Sciences, Washington University School of Medicine/The Retina Institute, St. Louis, MO; Doheny Eye Institute, University of Southern California, Los Angeles, CA; Barnet Retina Institute, Town and Country, MO.

Pockets of Subretinal Fluid after Retinal Reattachment Surgery: New Insights with SD-OCT

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Correlation Of Central Corneal Volume To Central Corneal Thickness In Normal Eyes


Observational Study of Worsening To Center-Involved Macular Edema Following Cataract Surgery in a Cohort with Diabetic Retinopathy

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Application of Enhanced Near-Infrared Fundus Reflectance for Analysis of Subretinal Lesions Associated with AMD

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Whole Genome Analysis Of 16 Unrelated Patients With Autosomal Recessive Retinitis Pigmentosa Reveals Novel Single-Base And Large Structural Genetic Mutations


Effects of Vigabatrin on Retina in Pigmented Rats

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Lithium Chloride Induces MicroRNA-29b and Suppresses Extracellular Matrix Synthesis in the Trabecular Meshwork

Masahiro Omoto, Yiping Jin, Reza Dana, Sunil K. Chauhan. Schepens Eye Research Institute, Harvard Medical School, Boston, MA.

Mesenchymal Stem Cells Suppress Alleloimmunity in Corneal Transplantation

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Idiopathic Panuveitis Associated With Retinitis Pigmentosa

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Intra-arterial Chemotherapy for the Management of Retinoblastoma in Eyes with Extensive (>50%) Retinal Detachment

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Natural History Of Drusenoid Pigment epithelium Detachments In Age-related Macular Degeneration Using Spectral Domain OCT

Louis R. Pasquale1,2, Stephanie Loomis1,6, Jae H. Kang2, Brian Yaspon3, Richard K. Lee3, Margaret A. Pericak-Vance3, Michael A. Hauser2, Julia E. Richards1, Jonathan L. Haines4, Janey L. Wiggs1,6. 1Ophthalmology, 2Ophthalmology-Harvard Med School, 3Mass Eye & Ear Infirmary, Boston, MA; 4Medicine, Brigham and Women’s Hospital, Boston, MA; 5Center for Human Genetics Research, Vanderbilt University, Nashville, TN; 6Bascom Palmer Eye Institute, Miami, FL.

CDKN2BAS Genotype - Glaucoma Phenotype Correlations In The GLAUGEN Study And The NEIGHBOR Consortium

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Clinicopathological Features of Young Patients Diagnosed with Primary Acquired Melanosis with Atypia or Conjunctival Melanoma

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Omega-3 Polyunsaturated Fatty Acids Preserve Retinal Function In Type II Diabetic Mice

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The “Swinging Schera” Modification Of Evisceration: Assessment Of Motility And Long Term Follow-up

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Characterization of Diabetic Retinopathy Lesions Using Adaptive Optics Scanning Laser Ophthalmoscopy

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Regional variability in endothelial cell density in Fuchs Endothelial Corneal Dystrophy; An HRT3 Study

Yureeda Qazi1, Bernardo Cavalcanti1, Andrea Cruzat1, Susan Cheng1, Candice Williams1, Monique Trinidad1, Deborah Witkin1, Caroline A. Blackie1. 1Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 2TearScience, Boston, MA; 3Korb Associates, Boston, MA; 4Immune Disease Institute, Harvard Medical School, Boston, MA.

Immune Response in Meibomian Gland Dysfunction (MGD) and the Effect of Anti-Inflammatory Therapy: An In Vivo Confocal Microscopy (IVCM) Study

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Optic Nerve Head Astrocytes Increase Expression Of Tenascin C In Response To Injury

Alaa E. Radwan1, Ravi Parikh1,2, Iujwala Baheti1, Matthew Austin1,28, C. Stephen Foster1. 1Uveitis, MERSI, Cambridge, MA; 2Public health, 3public health, 4Harvard school, Cambridge, MA.

Risk factors associated with relapse of Birdshot Retinchorioidopathy
Salma Radwan1,2, Ahmed Z. Soliman1,2, Sonja G. Prager1,3, Paolo S. Silva1, Hanna Kwak1, George L. King3, Lloyd P. Aiello1, and Jennifer K. Sun1. 1Ophthalmology, Joslin Diabetes Center, Harvard Medical School, Boston, MA; 2Ophthalmology, Cairo University Medical School, Cairo, Egypt; 3Ophthalmology and Optometry, Medical University of Vienna, Vienna, Austria. Decreasing Retinal Layer Thickness with Increasing Diabetes Duration is Independent of Diabetic Retinopathy Severity and Retinal Central Subfield Thickness

Aparna Raghuram1,2, Oyinkansola Kolawole1,2, Ronald M. Hansen1,2, Anne B. Fulton1,2. 1Department of Ophthalmology, Childrens Hospital Boston, Boston, MA; 2Harvard Medical School, Boston, MA; 3Northeastern University, Boston, MA. Flicker Electroretinogram - Temporal Response Function In Children On Vigabatrin (VGB)

Adriana Ransijn1, Giulia Venturini1, Silvio Alessandro Di Gioia1, Shyana Harper2, Carol Weigel-DiFranco2, Carlo Rivolta1, Eliot L. Berson2. 1Department of Medical Genetics, University of Lausanne, Lausanne, Switzerland; 2Harvard Medical School, The Berman-Gund Laboratory for the Study of Retinal Degenerations, Massachusetts Eye and Ear Infirmary, Boston, MA. FAM161A Mutations In Patients With Early-onset Retinitis Pigmentosa In The United States

Caio V. Regatieri1,2, Petr Baranov3, Ana Carvalho1, ChiWan Ko4, Sarah Tao5, Michael J. Young1. 1Ophthalmology, Schepens Eye Res Inst - Harvard Medical, Boston, MA; 2Ophthalmology, Federal University of Sao Paulo, Sao Paulo, Brazil; 3Advanced Development Center, CooperVision, Inc., Pleasanton, CA. Pre Differentiated Human Retinal Progenitor Cells Integrate and Express Mature Markers on the Host Retina

Birgit Regenfuss1, Deniz Hos1, Felix Bock1, Jasmine Onderka2, Sharmila Masili3, Claus Cursiefen1. 1Ophthalmology, University of Cologne, Cologne, Germany; 2Ophthalmology, University of Erlangen-Nuremberg, Erlangen, Germany; 3Ophthalmology/Harvard Med School, Schepens Eye Research Institute, Boston, MA. TRAIL Influences Human Lymphatic Microvascular Endothelial Cell (HMVECs) Proliferation and Lymphangiogenesis

Flavio A. Rezende1, Eric Lapalme1, Cynthia X. Qian1, Aouatef Benlemmouden1, Sandra Favret1, Nicolas Tetreault1, Francois Binet2, Lois E. Smith3, John P. P. SanGiovanni1, Przemyslaw Mike Sapieha1. 1Ophthalmology, Maisonneuve-Rosemont Hospital, Montreal, QC, Canada; 2Ophthalmology, University of Montreal, Montreal, QC, Canada; 3Ophthalmology, Harvard Univ/Childrens Hospital, Boston, MA; 4Clinical Trials Branch, National Eye Institute/NIH, Bethesda, MD. Omega-3 Supplementation Influences Vitreal Levels of Vascular Endothelial Growth Factor in Exudative Age-Related Macular Degeneration

Miin Roh1, Yan Zhang2, Yusuke Murakami1, Aristomenis Thanos2, Demetrios G. Vavvas1, Larry Benowitz2, Joan W. Miller2. 1Ophthalmology, MEEI, Angiogenesis Lab, Boston, MA; 2Neuroscience, Laboratories for Neuroscience Research in Neurosurgery, F.M. Kirby Neurobiology Center, Children's Hospital Boston, MA. Etanercept, A Widely Used Inhibitor Of Tumor Necrosis Factor-α (TNF-α), Prevents Retinal Ganglion Cell Loss In A Rat Model Of Glaucoma


Zahra Sadrai, William Stevenson, Andre Okanobo, Yihe Chen, Jing Hua, Sunil Chauhan, Reza Dana. MEEI/SERI Harvard Ophthalmology, Boston, MA. Topical Blockade of Phosphodiesterase 4 (PDE4) Ameliorates Dry Eye Disease

John Paul P. SanGiovanni1, Jing Chen1, Roberta J. Dennison2, Traci E. Clemons1, Przemyslaw Mike Sapieha1, Lois E. Smith5, Emily Y. Chew1. 1Clinical Trials Branch, National Eye Institute/NIH, Bethesda, MD; 2Harvard Med Sch/Children's Hosp, Boston, MA; 3Harvard Med Sch, Boston, MA; 4EMMES Corp., Rockville, MD; 5Ophthalmology, University of Montreal, Montreal, QC, Canada; 6Harvard Med Sch/Children's Hospital, Boston, MA; 7National Eye Inst/NIH, Bethesda, MD. Regulatory Elements in Noncoding DNA Contain AMD-Associated Sequence Variants

Daniel R. Saunders, Peter J. Bex, Russell L. Woods. Schepens Eye Research Institute, Boston, MA. A Novel, Objective Measure of Information Acquisition from Video is Correlated with Blur

Rony R. Sayegh, Claes H. Dohlman, Eli Peli. Ophthalmology, Schepens Eye Research Institute, Massachusetts Eye & Ear, Boston, MA. Evaluation of the Through-focus Curve of the Boston Keratoprosthesis
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**Natural Killer (NK) Cells Promote Corneal Angiogenesis In β-FGF Micropellet Model**

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**Bioinformatic Analysis of Embryonic Human Vitreomacs**

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**Comparative Analysis of Progenitor Cells from Lacrimal Glands of Wild Type and Thrombospondin-1 Null Mice**

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**Low-Coherence Reflectometry (OLCR) Versus Ultrasonic Techniques Of Pachymetry In Glaucomatous And Non-Glaucomatous Eyes**

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**Assessing Structure-Function Relationships Based on the Glaucoma Staging System**

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**Effect Of Topical IL-1RA On Signs And Symptoms Of Dry Eye Disease In Patients With Ocular Graft-versus-host Disease (GVHD)**

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**Change In Prostaglandin Synthesizing Activities In Dry Eye Induced Mice**

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**Hermetic Sealing and Packaging Technology for the Boston Retinal Prosthesis**

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**Results of the Boston keratoprosthesis type 1 larger backplate**


**Regulatory T-Cells In Peripheral Blood of Patients With Birdshot Retinochoroidopathy**

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**Identification of Additional Diabetic Retinopathy Lesions using Mydriatic Wide-field Fundus Imaging: distribution & agreement with ETDRS photography and dilated retinal examination**

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**Activated Protease-activated Receptor Type 2 Reduces Vaso-obliteration And Accelerates Normal Revascularization In A Mouse Model Of Oxygen-induced Retinopathy**
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A Novel Surgical Technique For Encircling Scleral Buckle Surgery For Primary Retinal Detachment

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Debridement Wounds to the Mouse Cornea Induce Rapid Recruitment of Monocytes and γδ T-cells

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Jak1/3 Inhibition Suppresses Acute And Chronic Forms Of Murine Ocular Surface Inflammation

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Stratification Stereotypy Of Genetically Defined Retinal Ganglion Cell Types

Jun Suzuki1, Takeru Yoshimura2, Marina Simeonova2, Kimio Takeuchi1, Yusuke Murakami1, Yuki Morizane1, Joan W. Miller1, Lucia Sobrin2, Demetrios G. Vavvas1. Ophthalmology, Angiogenesis Lab, Massachusetts Eye & Ear Infirmary, Boston, MA; 2Vascular Biology Program and Department of Surgery, Children’s Hospital Boston, Boston, MA.
Aminoimidazole Carboxamide Ribonucleotide (AICAR) Ameliorate Experimental Autoimmune Uveitis

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Human Umbilical Tissue-derived Cells (hUTC) Ameliorate Retinal Vascular Leakage In A Diabetic Rat

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Continuous Measurement Of Physical Forces During Human Primary Corneal Fibroblast Migration

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The Natural History Of Dry Eye Disease From The Patient’s Perspective

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Human Retinal Pigment Epithelium Cell Secretions Promote Human Retinal Progenitor Cell Differentiation into Photoreceptors

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Laterality as a Risk Factor for Intraoperative Complications During Cataract Surgery

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Epithelial Immune Cell Alterations and the Effect of Anti-Inflammatory Treatment in Patients with Dry Eye Syndrome: An In Vivo Confocal Microscopy Study

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Transportation Simulations Of Cultured Human Limbal Epithelial Cells Subjected To Eye-bank Storage
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Alpha-1 Adrenergic Receptor Stimulation Induces Ocular Disease via TGF-Beta-Mediated Mechanisms

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Evaluating the Use of Statins in the Establishment of a Corneal Endothelial Protective Phenotype

Gargi K. Vora, Bernardo Cavalcanti, Monique Trinidad, Candice Williams, Pedram Hamrah. Ocular Surface Imaging Center, Department of Cornea and Refractive Surgery, Massachusetts Eye & Ear Infirmary, Boston, MA.

In Vivo Confocal Microscopy Analysis and Image-Guided Therapy of Limbal Stem Cell Insufficiency

Sushant Wagley\textsuperscript{1A}, Shiva Gautam\textsuperscript{1B}, Jorge G. Arroyo\textsuperscript{1A}. \textsuperscript{1}Ophthalmology, \textsuperscript{1}Medicine, \textsuperscript{1}Beth Israel Deaconess Medical Center, Boston, MA.

Risk factors for age-related macular degeneration in the US population: Results from the National Health and Nutrition Examination Survey 2005-2008

Jennifer Wallis\textsuperscript{1}, Peter J. Bex\textsuperscript{2}, Luis Lesmes\textsuperscript{2}, Thomas S. Wallis\textsuperscript{2}, Mary Lou Jackson\textsuperscript{1}. \textsuperscript{1}Vision Rehabilitation, Harvard Medical School/Massachusetts Eye and Ear Infirmary, Boston, MA; \textsuperscript{2}Schepens Eye Research Institute, Harvard Medical School, Boston, MA.

Contrast Sensitivity As A Predictor Of Central Field Loss

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Visual Search with Image Enhancements in Age-Related Macular Degeneration

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In Vivo Confocal Microscopy as a Tool to Evaluate Cellular Changes in the Cornea and Conjunctiva in Ocular Allergy and Non-Allergic Ocular Inflammatory Diseases

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Change In Central Corneal Volume After Cataract Surgery

Kenton T. Woodard\textsuperscript{1A}, Takeshi Iwase\textsuperscript{3}, Luk H. Vandenberghhe\textsuperscript{3}, Ping Jie Xiao\textsuperscript{1A}, Josh C. Grieger\textsuperscript{1C}, Albert M. Maguire\textsuperscript{3}, Katharine J. Liang\textsuperscript{1A}, Jean Bennett\textsuperscript{3}, Peter A. Campochiaro\textsuperscript{3}, R. Jude Samulski\textsuperscript{1A,3}. \textsuperscript{1}Gene Therapy, Neurobiology, \textsuperscript{2}Gene Therapy, \textsuperscript{3}Joint Vector Core, \textsuperscript{1}University of North Carolina at Chapel Hill, Chapel Hill, NC; \textsuperscript{2}Ophthalmology, Johns Hopkins Hospital, Baltimore, MD; \textsuperscript{3}Gene Therapy, \textsuperscript{3}F.M. Kirby Center for Molecular Ophthalmology, \textsuperscript{1}University of Pennsylvania, Philadelphia, PA; \textsuperscript{3}Ophthalmology and Neuroscience, Johns Hopkins Wilmer Eye Inst, Baltimore, MD.

Trafficking of an Adeno-Associated Virus Variant in the Retina

Russell L. Woods, Peter J. Bex, Daniel R. Saunders. Schepens Eye Research Institute, Boston, MA.

Free Recall as an Objective Measure of Information Acquisition from Video

John L. Wyatt, Jr.\textsuperscript{1}, William Ellersick\textsuperscript{2}, Patrick Doyle\textsuperscript{3}, Shawn Kelly\textsuperscript{2}, William Drohan\textsuperscript{2}, Oscar Mendoza\textsuperscript{2}, Douglas Shire\textsuperscript{2}, Marcus Gingerich\textsuperscript{3}, Attila A. Priplát\textsuperscript{2}, Joseph Rizzo\textsuperscript{2}. \textsuperscript{1}Electrical Engineering, Massachusetts Inst of Technology, Cambridge, MA; \textsuperscript{2}Electrical Engineering, VA Boston Health Care System and Carnegie Mellon University, Pittsburg, PA; \textsuperscript{3}Cornell Nanofabrication Facility, Ithaca, NY; \textsuperscript{3}Dept. of Ophthalmology, Mass. Eye and Ear Infirmary, Boston, MA.

A Safe CMOS Stimulation and Communications Chip for Retinal Implants

Takefumi Yamaguchi\textsuperscript{1}, Aslıhan Turhan\textsuperscript{2}, Deshea L. Harris\textsuperscript{2}, Ulrich vonAndrian\textsuperscript{2}, Pedram Hamrah\textsuperscript{1}. \textsuperscript{1}Cornea/Ophthalmology, Harvard Medical School/MEEI, Boston, MA; \textsuperscript{2}Immune Disease Institute, Harvard Medical School, Boston, MA.

A Novel Mouse Model for Neurotrophic Keratopathy: Lateral Conjunctival Approach for Trigeminal Atonomy
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Hypothesis Independent Pathway Analysis Identifies Biologic Pathways Associated With Poag In Data From The Neighbor And Glaugen Genomewide Association Studies

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Central Macular Thickness and Surgical Outcomes after Epiretinal membrane Extraction Surgery Combined With Phacoemulsification Surgery versus Membrane Extraction Alone

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Modified Cutler-Beard Procedure: Secondary Placement of an Autologous Tarso-conjunctival Graft

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Impact of Endothelium-specific NFκB Signaling on Choroidal Neovascularization

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Live, Long-Term Observation of the Mechanobiology of Confluent Primary Human Corneal Fibroblast Cultures Subjected to Applied Force

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The Retina and Refractive Outcome in the Rat Model of ROP

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Modeling A Ciliopathy: Ttc26 Is Required For Ciliogenesises In Photoreceptor And Kidney Epithelial Cells

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Mistyping of Human Adenovirus Type 19 Associated with Epidemic Keratoconjunctivitis

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Sulforaphane Decreases Endothelial Cell Apoptosis in Fuchs Endothelial Corneal Dystrophy: A Novel Treatment

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TGF-β3 Blunts Corneal Fibrosis
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Galectin-3 Regulates MMP-9 Activity in Human Corneal Keratinocytes through Interaction with EMMPRIN


Does Dynamic Attention Predict Hazard Detection In People With Central Field Loss?


Open Angle Glaucoma In Soluble Guanylate Cyclase α1-deficient Mice And Its Association With The Gucy1a3/gucy1b3 Locus In Humans

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Over-Reliance on Serology Incompletely Characterizes Human Adenoviruses

Andrea Cruzat, Anita Shukla, Eleftherios Paschalis, Fabiano Cade, Claes Dohlman.Cornea / Ophthalmology, Harvard Medical Sch/MEEI, Boston, MA.

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High Throughput Mass Spectrometry-based Mutation Profiling of Primary Uveal Melanoma

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Localization and Regulation of Extracellular Matrix Metalloproteinase Inducer (EMMPRIN) in Human Meibomian Glands

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Complement and Basal Deposit Formation inEfemp1-R345W Knockin Mice


The Ocular Surface Phenotype Of Muc5AC And Muc5B Null Mice

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TLR2 Mediated Upregulation Of Ciliary Body-derived CRAMP Is Critical In Defense AgainstS. Aureus Induced Endophthalmitis

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Olig2 Defines Subpopulations Of Retinal Progenitor Cells Biased Towards Specific Cell Fates
Targeted Resequencing of CDKN2BAS Locus Identifies Variants Associated with Primary Open Angle Glaucoma


Dysfunctional Regulatory T cells in Dry Eye Disease Exacerbate Corneal Allograft Rejection

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Results Update from Second Sight’s Argus® II Retinal Prosthesis Study

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TGF-B3 Replaces Serum Action in an In Vitro Model of Corneal Matrix Development

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Proliferative Retinopathy of Prematurity is Associated with Low Serum Levels of Adiponectin

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ACAIID Tolerogenic APC Induce Two Types Of CD4+ Treg Cells By Two Different Mechanisms

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A porous poly(ε-caprolactone) tissue engineering scaffold for RPE Transplantation

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Thrombospondin Receptor CD47 On T Cells And Not On The Surface Of Antigen Presenting Cells Is Necessary For Treg Induction Associated With Ocular Immune Privilege

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Inhibition of Receptor Interacting Protein Kinase Delays Necrotic Cone Photoreceptor Cell Death in a Mouse Model of Inherited Retinal Degeneration

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NMNATI Mutations Cause Leber Congenital Amaurosis at the LCA9 Locus
PAPERS (ALPHABETICAL ORDER BY FIRST AUTHOR’S SURNAME)

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Mutations In The Recessive Deafness Locus Loxhd1Cause Dominant Late-onset Fuchs Corneal Dystrophy


Overview of Progress on the 256+ Channel Boston Retinal Prosthesis


Effect Of G-protein Coupled Kinase 1 Expression On Mouse Cone Photoresponse Termination

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Non-invasive Clinical Detection of Age-Related and Alzheimer’s Disease-Down Syndrome Dependent Changes in the Lens

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Natural Adaptation to the Orientation of High Order Aberrations

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A Prospective Study of Common Polymorphisms in CX3CR1 and Risk Of Age-Related Macular Degeneration (AMD)

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Spontaneous And Telomerase Immortalization Of Primary Human Corneal Endothelial Cells

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Spectral Domain Optical Coherence Tomography Parameters Associated with Visual Acuity in Patients with Resolved Center-Involved Diabetic Macular Edema

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Photoreceptor Mosaic Changes in Diabetic Eye Disease Assessed by Adaptive Optics Scanning Laser Ophthalmoscopy (AOSLO)

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Links Between Ubiquitin Biology, Calcium Regulation, Lens Organogenesis And Cataract

Aslihan Turhan, Takefumi Yamaguchi, Ulrich H. von Andrian, Pedram Hamrah. Corneal, Massachusetts Eye and Ear Infirmary, West Roxbury, MA.

Mucosal Addressin Cell Adhesion Molecule (MAdCAM)-1 Plays a Pivotal Role in Dendritic Cell Recruitment to the Cornea During Inflammation
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Analysis of Gene Expression in Accessory Lacrimal Glands by Laser Microdissection and cDNA Microarrays

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The Amount Of MUC5AC In Tears Of Visual Display Terminal (VDT) Users: Osaka Study

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Genome-wide Analysis Of Central Corneal Thickness In POAG Cases From The NEIGHBOR Consortium

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Monitoring Morphological Changes in the Retina of Rhodopsin1/2 Mice with SD-OCT

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Common Variants in 9p21 and 8q23 are associated with Normal Tension Glaucoma: Results From The NEIGHBOR and GLAUGEN Genome-wide Association Studies

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Protection from Proliferative Diabetic Retinopathy in Patients with 50 or More Years of Type 1 Diabetes
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