



RESEARCH: A VISION FOR HOPE
MAY 1 – 5 | SEATTLE, WASH.

ARVO 2016 Annual Meeting Emerging Trends and Hot Topics

The following abstracts have been identified by members of the Annual Meeting Program Committee as representing the newest and most innovative research being conducted in the various specialties. To view abstracts, enter the program number below in the "Search" field of the Online Planner. "SIG" – Special Interest Group.

Sunday, May 1, 2016

Anatomy and Pathology/Oncology

#148 - 961. In vivo evidence of tracer movement from the cerebrospinal fluid into the eye in mice. Emily Mathieu. May 1, 3:15pm.

Biochemistry/Molecular Biology

#161 - 1170 - C0020. Differential rescue of protein expression and localization of two adRP-linked PRPH2 mutants in rods is mediated by their specific binding characteristics. Elvir Becirovic. May 1, 3:15pm.

Cornea

#162 - 1215 - D0163. Pre-loaded tissue for DMEK with endothelium flapped-in. Alessandro Ruzza. May 1, 3:15pm.

#163 - 1248 - D0196. A Surgical Cryoprobe for Targeted Transcorneal Freezing to Treat Corneal Endothelial Dysfunction. Alina Akhbanbetova. May 1, 3:15pm.

Eye Movements/Strabismus/Amblyopia/Neuro-Ophthalmology

#138 - 707 - B0206. Total Human Eye Allograft Transplantation (THEA): Preclinical Cadaveric Studies. Maxine Miller. May 1, 1:30pm.

Glaucoma

#114 - 361 - D0016. The structure/function relationship between wide-scan binocular OCT images and the binocular visual field in glaucoma patients. Masaaki Yoshida. May 1, 8:30am.

#143 - 862 - D0080. Paravascular defects and epiretinal membranes are seen on en-face slab OCT images in eyes with early glaucoma. Nicole De Cuir. May 1, 1:30pm.

Retina

#147 - 135 - A0330. Treatment of retinitis pigmentosa by Lycium barbarum. Henry Chan. May 1, 8:30am.

#146 - 951. Significant Difference Between Fractal Dimension of OCT Angiography of Eyes With and Without Nonproliferative Diabetic Retinopathy. Emma Young. May 1, 3:15pm.

Visual Psychophysics/Physiological Optics

#109 - 201 - B0100. Reaction times in elite athletes and the influence of saccades. Brendan Barrett. May 1, 8:30am.

Monday, May 2, 2016

Biochemistry/Molecular Biology

#225- 1744 - D0140. Ocular parameters changes in the IRBP knockout mouse eye. Shanu Markand. May 2, 8:30am.

#234 - 1841. Ocular Gene Therapy for Choroideremia: the Alberta Experience. Ian MacDonald. May 2, 11am.

#234 - 1842. Gene augmentation therapy in a large animal model of CNGB1 retinitis pigmentosa. Simon Petersen-Jones. May 2, 11am.

#234 - 1844. In vivo reprogramming of rods to cone-like cells by Nrl-knockdown using AAV-delivered CRISPR-Cas9 rescues retinal degeneration. Wenhan Yu. May 2, 11am.

#234 - 1839. Antisense oligonucleotide delivery is an effective therapeutic approach for CEP290-associated LCA. Alejandro Garanto. May 2, 11am.

#270 - 2321. A high-resolution view of the human retina miRNome. Sandro Banfi. May 2, 3:45pm.

Clinical/Epidemiologic Research

#221 - 1595 - B0287. Aspirin and Diabetic Retinopathy: the Singapore Epidemiology of Eye Disease (SEED) study. Yuan Shi. May 2, 8:30am.

#279- 2619 - B0235. Association of Pelvic Organ Prolapse (POP) and Exfoliation Syndrome in Utah Medicare Beneficiaries. Samuel Thomas. May 2, 3:45pm.

Cornea

#238 - 1937 - A0212. Functional Imaging of Ex Vivo Human Corneal Endothelium Using Two-Photon Fluorescence Lifetime Imaging Microscopy. Dagny Zhu. May 2, 11am.

#238 - 1924 - A0199. Quantitative alterations in nerve morphology differentiate affected and unaffected eyes in Unilateral Keratoconus. Rushad Shroff. May 2, 11am.

#238 - 1908 - A0183. A purely solid-state device for rapid reconstruction of 3D models of the anterior segment of the eye with no moving parts. Pushyami Rachapudi. May 2, 11am.

Glaucoma

#227 - 1795. Finite element analysis predicts high optic nerve head strains during horizontal eye movements. Xiaofei Wang. May 2, 11am.

#227 - 1796. Time-lapse retinal ganglion cell dendritic field degeneration imaged in organotypic retinal explant culture. Thomas Johnson. May 2, 11am.

#227 - 1791. Restoration of trabecular meshwork cellularity and function following iPSC transplantation in vivo. Markus Kuehn. May 2, 11am.

#227 - 1794. High-resolution mapping of in-vivo stretch and compression of the lamina cribrosa in response to acute changes in intraocular and/or intracranial pressures. Ian Sigal. May 2, 11am.

#227 - 1797. In Vivo Small Molecule Delivery to the Optic Nerve in a Rat Model. Shandiz Tehrani. May 2, 11am.

#227 - 1792. Young bone marrow Sca-1+ stem cells home to aged retina and protect retina from acute glaucoma injury. Zhengbo Shao. May 2, 11am.

#227 - 1793. Optic nerve and retinal ganglion cell degeneration after two weeks of intracranial pressure (ICP) elevation in mice. Guofu Shen. May 2, 11am.

#278 - 2540 - B0156. Inner Retina Dysfunction in Microfibril Deficient Mice with Low Tension Glaucoma. Hang-Jing Wu. May 2, 3:45pm.

#278 - 2529 - B0145. HistoneH2B, a potential role of cell death ligand, induced RGC death through Toll like receptor 4 in the vitreous of acute angle closure. Yasunari Munemasa. May 2, 3:45pm.

#278 - 2564 - B0180. Calorie restriction protects against retinal degeneration in acute glaucoma model through altering the metabolic profile. Yusuke Izuta. May 2, 3:45pm.

#278 - 2541 - B0157. Regional and temporal patterns of retinal α -crystallins expression during secondary retinal ganglion cell degeneration. Jacky Man Kwong Kwong. May 2, 3:45pm.

#278 - 2546 - B0162. Abundance of CD163+ macrophages/microglia in the optic nerves of human post-mortem eyes with glaucoma. Milica Margeta. May 2, 3:45pm.

#278 - 2542 - B0158. Is the relationship between retinal nerve fibre layer thickness and cognitive performance explained by genetic or environmental factors? A twin study. Eneh Jones-Odeh. May 2, 3:45pm.

#263 - 2280. Photopic Negative Response Obtained Using a Handheld Electroretinography (ERG) Device: Repeatability and Comparison with Optical Coherence Tomography in Glaucoma. Zhichao Wu. May 2, 3:45pm.

Lens

#240 - 2011 - B0091. Assessment of Readability of Websites Related to Cataracts. Mazeyar Saboori. May 2, 11am.

#240 - 1995 - B0075. The Relationship between Insurance Coverage, Demographics, and BSCVA at the Time of Cataract Surgery. Jordan Stone. May 2, 11am.

Multidisciplinary Ophthalmic Imaging Group

#246 - 2206 - D0102. Inner retinal oxygen delivery and metabolism following ischemia/reperfusion injury in rat. Michael Tan. May 2, 11am.

Retina

#204- 1352. Galectin-1 is an Angiogenic Factor Associated with Proliferative Diabetic Retinopathy: Novel Target for Aflibeccept. Atsuhiko Kanda. May 2, 8:30am.

#223 - 1663 - C0119. Correlations between retinal vessel calibers and neurodegeneration in patients with no or mild diabetic retinopathy in the European Consortium for the Early Treatment of Diabetic Retinopathy (EUROCONDOR). Jakob Grauslund. May 2, 8:30am.

#229 - 1809. Topline Results From Prospective, Double-masked, Placebo Controlled Phase 2 Clinical Study Evaluating Luminata® (ALG-1001) in Patients with Symptomatic Focal Vitreomacular Adhesion. Baruch Kuppermann. May 2, 11am.

#229 - 1806. Comparison of Three Non-surgical Treatments for Vitreomacular Traction (VMT). Nathan Steinle. May 2, 11am.

#228 - 1802. Fully automated prediction of geographic atrophy growth using quantitative SD-OCT imaging biomarkers. Theodore Leng. May 2, 11am.

#228 - 1800. Ex vivo spectral domain optical coherence tomography (ex-SDOCT) and high-resolution histology of drusenoid pigment epithelial detachment (D-PED) in age-related macular degeneration (AMD). Jeffrey Messinger. May 2, 11am.

#282 - 2694 - C0145. Cross-sectional evaluation of microperimetric fixation location and stability in Stargardt disease in the ProgStar study. Etienne Schonbach. May 2, 3:45pm.

Retinal Cell Biology

#212 - 1403. Hyperhomocysteinemia Disrupts Retinal Pigment Epithelial Structure and Function with Features of Age-Related Macular Degeneration. Macular Degeneration. Amany Tawfik. May 2, 8:30am.

#284 - 2737 - D0271. Long-term photoreceptor rescue in two rodent models of retinitis pigmentosa by adeno-associated virus delivery of Stanniocalcin-1. Gavin Roddy. May 2, 3:45pm.

Tuesday, May 3, 2016

Anatomy and Pathology/Oncology

#342 - 3616 - B0163. Eliminating the Master Clock Gene in the Murine Retina Produces Myopia. Duk Cheon Lee. May 3, 11am.

#364 - 3785. Crystalline lens thickness is modulated by spectacle lens defocus in chicks. Sally McFadden. May 3, 3:45pm.

Cornea

#306 - 2811. Unfolded protein accumulation induced endoplasmic reticulum stress of corneal endothelial cells in Fuchs endothelial corneal dystrophy. Naoki Okumura. May 3, 8:30am.

#306 - 2809. Trinucleotide repeat expansion and TCF4 gene expression in Fuchs endothelial corneal dystrophy. Keisuke Ogata. May 3, 8:30am.

#338 - 3516 - A0119. Anti-Angiogenic Polymer Therapeutic for Corneal Neovascularization. Crystal Shin. May 3, 11am.

#336 - 3477. Extracellular vesicles derived from human mesenchymal stem cells promote corneal wound repair by increasing epithelial cell proliferation and reducing neovascularisation in a rat corneal alkali burn model. Thomas Ritter. May 3, 11am.

#363 - 3783. Bowman's Layer Acoustic Impedance in Normal and Keratoconus Cornea. Ronald Silverman. May 3, 3:45pm.

Eye Movements/Strabismus/Amblyopia/Neuro-Ophthalmology

#317 - 3080 - B0067. Play Station Portable™ as a therapy for amblyopia in children. Ricardo Torres-Vidal. May 3, 8:30am.

#317 - 3081 - B0068. Newly Developed Binocular Treatment of Amblyopia using Head-Mounted Display. Haeng Jin Lee. May 3, 8:30am.

#317 - 3078 - B0065. Binocular iPad game treatment for amblyopia is more successful than patching. Krista Kelly. May 3, 8:30am.

#317 - 3094 - B0081. New Pediatric Vision Screener – Data Analysis and Validation. Boris Gramatikov. May 3, 8:30am.

#368 - 3819. Detection of Amblyopia in Young Children via Retinal Rivalry Using a Video Game Styled Interface on a Tablet Device. Ryan Gise. May 3, 3:45pm.

#368 - 3816. Home use binocular dichoptic video content treatment for amblyopia-pilot study. Chaim Stolovitch. May 3, 3:45pm.

Glaucoma

#302 - 2778. The yin and yang of the complement cascade in glaucoma – the importance of timing and location. Gareth Howell. May 3, 8:30am.

#302 - 2781. Citicoline preserves optic nerve integrity and visuomotor function following chronic intraocular pressure elevation. Yolandi van der Merwe. May 3, 8:30am.

#313 - 2993 - A0342. Ocular neurovascular changes during head-down posture predict future retinal nerve fiber layer loss in glaucoma suspects. Giacinto Triolo. May 3, 8:30am.

#314 - 3013 - A0362. Mechanical strain modulates TRPV4-dependent cytoskeletal reorganization in the trabecular meshwork. David Krizaj. May 3, 8:30am.

#314 - 3023 - A0372. Results of Phase IIB SYLTAG clinical trial with bamosiran in patients with glaucoma. Victoria Gonzalez. May 3, 8:30am.

#339 - 3563 - A0261. Optic Nerve (ON) Sheath Traction on the Temporal Peripapillary Sclera in Adduction: Biomechanical Evidence for a Role in Normal Tension Glaucoma (NTG). Andrew Shin. May 3, 11am.

#339 - 3543 - A0241. Estimating human trabecular meshwork stiffness by numerical modeling and advanced OCT imaging. Ke Wang. May 3, 11am.

#339- 3569 - A0267. Polarization Sensitive Optical Coherence Tomography (PSOCT) Demonstrates Strain Dependent Birefringence in Ocular Tissues. Joseph Park. May 3, 11am.

#360 - 3765. Mitochondrial Flavoprotein Fluorescence in Glaucoma Suspects, Primary Open-Angle Glaucoma, and Healthy Controls. Lawrence Geyman. May 3, 3:45pm.

#375 - 3936 - A0222. Clinical validation of a tablet perimeter. Algis Vingrys. May 3, 3:45pm.

Immunology/Microbiology

#323 - 3289 - D0031. Prophylactic and therapeutic effects of oral administration of transgenic rice on birch pollen-induced allergic conjunctivitis in mice. Waka Ishida. May 3, 8:30am.

#369 - 3821. Thrombospondin-derived peptide attenuates Sjögren's syndrome-associated ocular surface inflammation. Laura Contreras-Ruiz. May 3, 3:45pm.

Lens

#365 - 3795. The molecular basis of crystallin gene expression in lens: Role of FGF signaling and c-MAF. Ales Cvekl. May 3, 3:45pm.

Retina

#322 - 3285 - C0085. Ocular Safety of Intravitreal Anti Connective Tissue Growth Factor Neutralizing Antibody. Narsis Daftarian. May 3, 8:30am.

#324 - 3344 - D0147. Variation in Ophthalmologist Use of Anti-VEGF Therapy Among Medicare Beneficiaries. Rachel Thakore. May 3, 8:30am.

#324 - 3328 - D0131. ROS-responsive nanoparticles to extend the lifetime of anti-angiogenic drugs. Viet Anh Nguyen Huu. May 3, 8:30am.

#346 - 3694 - D0105. Comparative study of different methods for analyzing correlated continuous data. Bernard Rosner. May 3, 11am.

#346 - 3712 - D0123. Decreased Plasma Levels of Dickkopf-1 in Patients with Exudative Age-related Macular Degeneration. Zhen Liu. May 3, 11am.

#328 - 3425. OCT-based angiography of choroidal neovascularization by removing projection artifacts. Qinqin Zhang. May 3, 11am.

#347 - 3733 - D0194. ARGUS II® electronic epiretinal prosthesis in advanced dry amd: safety and feasibility study and preliminary functional results. Paulo Stanga. May 3, 11 am.

#347 - 3719 - D0180. Surgical feasibility of wide-field dual-array suprachoroidal–transretinal stimulation (STS) prosthesis in middle-sized animals. Takeshi Morimoto. May 3, 11am.

#347 - 3742 - D0203. Clinical trial: subretinal transplantation of CTS hESC derived RPE in the treatment of wet Age-related Macular Degeneration (wAMD). Zheng Qin Yin. May 3, 11am.

#347 - 3741 - D0202. Intravitreal Autologous Bone Marrow Derived Stem Cells in Ischemic Maculopathy Results after 12 Months Follow-up. Felipe Borges. May 3, 11am.

#362 - 3773. Evaluating choroidal pigmentation in the setting of polypoidal choroidal vasculopathy in a Caucasian population. Talia Kaden. May 3, 3:45pm.

#362 - 3777. Automated identification and quantification of subretinal fibrosis in neovascular age-related macular degeneration using polarization-sensitive optical coherence tomography. Philipp Roberts. May 3, 3:45pm.

#361 - 3768. Phase I/II clinical trial of human embryonic stem cell (hESC)-derived retinal pigmented epithelium (RPE) transplantation in Stargardt disease (STGD): One-year result. Manjit Mehat. May 3, 3:45pm.

#361 - 3769. Transplantation of Autologous induced Pluripotent Stem Cell-Derived Retinal Pigment Epithelium Cell Sheets for Exudative Age Related Macular Degeneration: A Pilot Clinical Study. Yasuo Kurimoto. May 3, 3:45pm.

#36 - 3770. Studies of Structure and Function in Whole Eye Transplantation. Kia Washington. May 3, 3:45 pm.

#380 - 4053 - C0098. Paravascular Inner Retinal Defects Associated with Epiretinal Membranes. Akitaka Tsujikawa. May 3, 3:45pm.

Visual Neuroscience

#341 - 3588 - B0028. Effect of varying skin surface electrode position on electroretinogram responses recorded using a handheld stimulating and recording system. Angharad Hobby. May 3, 11am.

Visual Psychophysics/Physiological Optics

#366 - 3803. Stereoscopic acuity as a function of induced monocular defocus measured with an adaptive optics simulator. Silvestre Manzanera. May 3, 3:45pm.

Wednesday, May 4, 2016

Anatomy and Pathology/Oncology

#43 - 4737. Effectiveness study of atropine for progressive myopia in Europeans; Two year follow up. Jan Roelof Polling. May 4, 11am.

#430 - 4741. Characterization of a novel retinaldehyde dehydrogenase selective inhibitor. Angelica Harper. May 4, 11am.

#430 - 4738. Alpha2-Adrenergic Agonists Inhibit Form-Deprivation Myopia (FDM) in the Chick. Brittany Carr. Toward (improved) myopia treatments. May 4, 11am.

#478 - 5526 - D0016. Effects of Long-wavelength Lighting Combined with Positive Lens Wear on Emmetropization in Young Rhesus Monkeys. Li-Fang Hung. May 4, 3:45pm.

Biochemistry/Molecular Biology

#437 - 4791 - A0007. MicroRNAs: regulators in the development of refractive errors and myopia. Milly Tedja. May 4, 11am.

#437 - 4799 - A0015. Comprehensive Genomewide Functional Characterization of Etiopathogenesis of Primary Congenital Glaucoma for Identification of Potential Therapeutic Agents and Targets. Muneeb Faiq. May 4, 11am.

Cornea

#412 - 4372 - A0175. Preventive effects of green tea catechins on UV-induced cytotoxicity in human corneal epithelium cells. Akiko Toju. May 4, 8:30am.

#412 - 4370 - A0173. Influence of light emitting diode-derived blue light overexposure on mouse ocular surface Hyo Seok Lee. May 4, 8:30am.

#412 - 4353 - A0156. Blueberry Component Pterostilbene Protects Corneal Epithelial Cells from Inflammatory and oxidative stress. Ding Chen. -May 4, 8:30am.

#440 - 4899 - A0115. Role of epithelial cell-derived exosomes in corneal wound healing. Jennifer Tran. May 4, 11am.

#440 - 4902 - A0118. Effects of mechanical stimulation of fluid shear stress in cultured corneal epithelial cells. Tsugiaki Utsunomiya. May 4, 11am.

#439 - 4856 - A0072. Effect of LASIK on mental health-related quality of life. Junichiro Yajima. May 4, 11am.

#471 - 5286 - A0213. Defined Regional Analysis of Mitochondrial Activity in the Endothelium of Donor Corneal Tissue. Benjamin Aldrich. May 4, 3:45pm

#471 - 5305 - A0232. Quantifying the adhesion strength of human corneal endothelial cells in an in vitro model. Hiroshi Tanaka. May 4, 3:45pm

Eye Movements/Strabismus/Amblyopia/Neuro-Ophthalmology

#419 - 4588 - B0374. A novel diagnostic next generation sequencing panel for infantile nystagmus. Mervyn Thomas. May 4, 8:30am.

#419 - 4582 - B0368. Effect of Explorative Saccadic Training (EST) to scanning eye movements in children with Homonymous Hemianopia (HH). Iliya Ivanov. May 4, 8:30am.

#418 - 4563 - B0349. Smartphone-based Head-mounted Binocular High-Speed Pupillometer. Wolfgang Fink. May 4, 8:30am

#446 - 5088 - B0318. Oxygen, Atmospheric Pressure and Non-arteritic Ischemic Optic Neuropathy. Anna Ter-Zakarian. May 4, 11:00am.

Glaucoma

#402 - 4281. Effect of Yoga and Meditation Based Intervention on Intraocular Pressure, Quality of Life, Oxidative Stress and Gene Expression Pattern in Primary Open Angle Glaucoma: A Randomized. Controlled Trial. Tanuj Dada. May 4, 8:30am.

#426 - 4711. Factors Influencing Lamina Cribrosa Microcapillary Hemodynamics and Oxygen Concentrations. Michael Girard. May 4, 11am.

#426 - 4710. Optical Coherence Tomography (OCT) Demonstrates Deformation of Optic Cup and Peripapillary Tissues by Horizontal Duction. Melinda Chang. May 4, 11am.

#460 - 5195. Quantitative Speckle-Variance Optical Coherence Tomography of Radial Peripapillary Capillaries in Glaucoma. Zaid Mammo. May 4, 3:45pm

#482 - 5634 - D0217. Genetic and pharmacological inhibition of ER stress-induced ATF4/CHOP prodeath pathway prevents myocilin misfolding and rescues mouse models of glaucoma. Ramesh Kasetti. May 4, 3:45pm.

Immunology/Microbiology

#416 - 4509 - B0119. Factors associated with vision impairment in Ebola virus disease uveitis in Sierra Leone. John Mattia. May 4, 8:30am.

Physiology/Pharmacology

#475 - 5387 - B0127. Reliability of kinetic visual field testing in children with mutation-proven retinal dystrophies: implications in therapeutic clinical trials. Vaidehi Dedania. May 4, 3:45pm.

Retina

#414 - 4441 - A0346. Topical dorzolamide-timolol with intravitreal anti-vascular endothelial growth factor for neovascular age-related macular degeneration. Jayanth Sridhar. May 4, 8:30am

#414 - 4435 - A0340. Inhibition of choroidal neovascularization by siRNA targeting tenascin-C. Yoshiyuki Kobayashi. May 4, 8:30am.

#404 - 4296. Decreased Renal Function is Associated with Reticular Macular Disease (RMD) in Patients with Age-Related Macular Degeneration (AMD). Heather Leisy. May 4, 8:30am.

#427 - 4719. Phase I Safety and Tolerability results for RetinoStat®, a Lentiviral Vector Expressing Endostatin and Angiostatin, in Patients with Advanced Neovascular Age-Related Macular Degeneration. Andreas Lauer. May 4, 11am.

#427 - 4718. The novel bispecific monoclonal anti-VEGF/anti-Ang2 antibody RG7716 shows promise in wet age-related macular degeneration patients with suboptimal response to prior anti-VEGF monotherapy. Usha Chakravarthy. May 4, 11am.

#428 - 4725. Radial retinotomies with endodiathermy for severe proliferative vitreoretinopathy: short-term results. Xiaofeng Lin. May 4, 11am.

#428 - 4726. Photo-mediated ultrasound therapy as a novel method to selectively treat small blood vessels. Yannis Paulus. May 4, 11am.

#474 - 5371 - B0042. Bone morphogenetic protein 4 inhibits transforming growth factor- β 1-induced epithelial-mesenchymal transition in retinal pigment epithelial cells. Haipei Yao. May 4, 3:45pm

#474 - 5380 - B0051. A protein kinase C theta mutation causes early-onset exudative retinal detachment. Xiaojie Ji. May 4, 3:45pm.

#462 - 5203. One-Year Outcomes of 49-Channel Suprachoroidal-Transretinal Stimulation (STS) Retinal Prosthesis in Patients with Advanced Retinitis Pigmentosa. Takashi Fujikado. May 4, 3:45pm.

#462 - 5207. Successful delivery of rAAV8.CNGA3 in a patient with CNGA3 achromatopsia. M Dominik Fischer. May 4, 3:45pm.

#473 - 5351 - B0022. Caspase-9 inhibition by Pen1-XBir3 abrogates retinal edema. Maria Avrutsky. May 4, 3:45pm.

Retinal Cell Biology

#444 - 5002 - B020. Interaction of Metabolome and Microbiome Contributes to Dietary Glycemia-induced Age-related Macular Degeneration in Aged C57BL/6J Mice. Sheldon Rowan. May 4, 11am.

Visual Neuroscience

#423 - 4665 - D003. Modulating ipRGC Input to Improve Sleep and Regulate Circadian Rhythm. Lisa Ostrin. May 4, 8:30am.

Thursday, May 5, 2016

Biochemistry/Molecular Biology

#508 - 5789 - A0240. RPE necroptosis in mouse model of sodium iodate-induced RPE degeneration. Jakub Hanus. May 5, 8am.

Clinical/Epidemiologic Research

#534 - 6230 - A0158. First-Day Intraocular Pressure Spikes after Phacoemulsification Cataract Surgery Among Patients Taking Tamsulosin. Levi Bonnell. May 5, 11am.

Eye Movements/Strabismus/Amblyopia/Neuro-Ophthalmology

#515 - 5978 - D006. Development of a novel device to measure visual fields in infants and toddlers. PremNandhini Satgunam. May 5, 8am.

#515 - 5994 - D0085. Pilot study to assess the efficiency and safety of the parabulbar triamcinolone for the treatment of moderate to severe Graves Ophthalmopathy assessed through STIR magnetic resonance imaging. Tomas Ortiz Basso. May 5, 8am.

#515 - 5987 - D0078. Nonvascular Retinal Imaging Markers of Preclinical Alzheimer's Disease. Cláudia Santos. May 5, 8am.

Glaucoma

#521 - 6082. NBCe1A (Slc4a4A) knockout causes retinal thinning and reduced ERG activity. Chelsea Carlson. May 5, 11am.

#521 - 6079. CAT OCULAR HYPERTENSIVE MODEL MUSHROOM EXTRACT AND LATANOPROST. Ghalib Akinlabi. May 5, 11am.

Retina

#510 - 5849 - C0085. Subcellular calcium dynamics during transient sublethal hyperthermia and subsequent protein expressions in retinal pigment epithelial cells. Yoko Miura. May 5, 8am.

#509 - 5821 - C0057. In vivo feasibility study of a novel critical hydrogel as an artificial vitreous body using rabbit eyes. Sujin Hoshi. May 5, 8am.

#509 - 5824 - C0060. Evaluation of the biocompatibility of an in situ forming hydrogel vitreous substitute in vivo: a one month study. Nathan Ravi. May 5, 8am.

#537 - 6337 - C0124. Increasing number of hyperreflective foci seen in vitreous on spectral domain optical coherence tomography with the severity of diabetic retinopathy. Takahiro Mizukami. May 5, 11am.

#536 - 6262 - C000. Risk calculator to predict severe retinopathy of prematurity. Madeline Yung. May 5, 11am.

#536 - 6259 - C000. Topical Administration of Somatostatin to an Oxygen-Induced Retinopathy (OIR) Model of Retinopathy of Prematurity (ROP). Hamzah Khalaf. May 5, 11am.

#536 - 6296 - C003. Renin Angiotensin System Components in Vitreous Humour of Retinopathy of Prematurity (Rop) Patients. Madhu Nath. May 5, 11am.

Retinal Cell Biology

#542 - 6531 - D0280. The Association of Apolipoprotein E and Membrane Attack Complex in Human RPE Cel. Ping Yang. May 5, 11am

#544 - 6586 - D0357. Mutations in Receptor Expression Enhancing Protein 6 (REEP6) Cause Early Onset RP in Humans. Smriti Agrawal. May 5, 11am.