Saturday, April 30th


Tsang SH, Mahajan VB, Smemo S. Genome engineering with CRISPR and more: from discovery to therapy [educational course, afternoon workshop]. April 30, 1:15-4:30pm. Location available to registrants http://arvo.org/AM/EducationCourses/.

Sunday, May 1

Sheffield V. CRISPR-based treatment of MYOC-associated glaucoma [Symposium Presentation]. May 1, 8:30-8:50am. Room 6E.

Steedel S, Callan T, Lee GC, Young E, Artes PH, Wall M, Flanagan JG. Exploring the Structure-Function Relationship for Perimetry Stimulus Sizes III, V and VI and OCT in Early Glaucoma [Abstract Number: 376 - Poster D0031]. May 1, 8:30-10:15am. Location: Exhibit/Poster Hall.

Lee E, Wanzek R, Turpin A, Chong L, Eden T, Wall M. Structure/Function Correlation of Optical Coherence Tomography in the Central and Peripheral Visual Fields [Abstract Number: 360 - Poster D0015]. May 1, 8:30-10:15am. Location: Exhibit/Poster Hall.


Christopher M, Faga B, Eglaine N, Fingert JH, Scheetz TE, Abramoff MD. Computational analysis of longitudinal changes to optic nerve head structure in normal and glaucoma individuals [Abstract Number: 835 - Poster D0053]. May 1, 1:30-3:15pm. Location: Exhibit/Poster Hall.

Flanary W, Vislisel J, Wagoner MD, Raecker M, Aldrich BT, Zimmerman MB, Goins KM, Greiner MA. Cystoid Macular Edema after DMEK and Recent Versus Remote Cataract Surgery [Abstract Number: 1193 - Poster D0141]. May 1, 3:15-5:00pm. Location: Exhibit/Poster Hall.

Songstad AF, Wiley LA, Burnight ER, Whitmore SS, Kaalberg EE, Riker MJ, Stone EM, Mullins RF, Tucker BA. Development of a step-wise protocol for the generation of human induced pluripotent stem cell-derived choroidal endothelial cells. [Abstract Number: 1136 - Poster B0355]. May 1, 3:15-5:00pm. Location: Exhibit/Poster Hall.

Burnight ER, Wiley LA, DeLuca AP, Oppedal DJ, Scheetz TE, Mullins RF, Stone EM, Tucker BA. CRISPR/Cas9-mediated genome editing for correction of inherited retinal disease mutations. [Abstract Number: 1157 - Poster C0007]. May 1, 3:15pm-5:00pm. Location: Exhibit/Poster Hall.

Iowa Reception. May 1, 7:30pm. Location: Tap House Grill Downtown, 1506 Sixth Avenue, Seattle. RSVP, Joe-Schmidt@uiowa.edu
Monday, May 2

Yadav RP, Yu L, Artemyev N. Delineation of the Farnesyl-Binding Site on AIP1 by NMR [Abstract Number: 1743 - Poster D0139]. May 2, 8:30-10:15am. Location: Exhibit/Poster Hall.

Parekh PK, Abramoff MD. Does fluorescein angiography add value in the management of suspected choroidal neovascularization? [Abstract Number: 1629 - Poster C0085]. May 2, 8:30-10:15am. Location: Exhibit/Poster Hall.


Lee KE, Meuer SM, Lee K, Abramoff MD, Klein R, Klein BE. Association between Retinal Thickness and Contrast Sensitivity in Older Adults: the Beaver Dam Eye Study (BDES) [Abstract Number: 1565 - Poster B0049]. May 2, 8:30-10:15am. Location: Exhibit/Poster Hall.

Slater DJ, Lay B, Sindt CW. Using Corneal elevation specific technology to anti-aberrate a contact lens [Abstract Number: 1489 - Poster A0169]. May 2, 8:30-10:15am. Location: Exhibit/Poster Hall.

Oguz I, Zhang L, Wahle A, Sonka M, Abramoff MD. Graph-based fluid segmentation from OCT images [Abstract Number: 1636 - Poster C0092]. May 2, 8:30-10:15am. Location: Exhibit/Poster Hall.

Sindt C. Evaluation Polyethylene Glycol Surface Coating on Gas Permeable Lenses to Improve Wearability and Wetability [Abstract Number: 1462 - poster A0142]. May 2, 8:30-10:15 am. Location: Exhibit/Poster Hall.


Lin S, Mihailevich A, West SK, Johnson CA, Friedman DS, Ramulu PY. Performance in alternative tests of vision across the spectrum of glaucoma severity. [Abstract Number: 1971 - Poster A0277]. May 2, 11:10-12:45pm. Location: Exhibit/Poster Hall.

Jiao C, Zeng S, Schelling MA, Stuart R, Mullins RF, Sohn EH. Novel organotypic culture model of pig choroid-scleral explant as a therapeutic screening tool [Abstract Number: 2143 - Poster C0050]. May 2, 11:00am-12:45pm. Location: Exhibit/Poster Hall.

Meuer SM, Lee KE, Lee K, Abramoff MD, Klein R, Klein BE. The Relationship of Cataract Surgery to Retinal Thickness: The Beaver Dam Eye Study (BDES) [Abstract Number: 2060 - Poster B0265]. May 2, 11:00am-12:45pm. Location: Exhibit/Poster Hall.
Mahajan VB, Inoue M. Diabetic macular edema and anti-VEGF [MODERATOR, poster session]. May 2, 11:00am-12:45pm, Location: Exhibit/Poster Hall.

Daniel S, Anderson MG, Clark AF, McDowell CM. RGC death in a mouse model of congenital glaucoma [Abstract Number: 2521 - Poster B0137]. May 2, 3:45-5:30pm. Location: Exhibit/Poster Hall.

Schwarz C, Aldrich BT, Burckart K, Schmidt G, Reed C, Greiner MA, Sander EA. Adhesion Strength of Descemet Membrane in Healthy and Diabetic Donor Corneas [Abstract Number: 2374 - Poster A0103]. May 2, 3:45-5:30pm. Location: Exhibit/Poster Hall.

Anderson MG, Hedberg-Buenz A, Lewis C, Meyer KJ. Correlations between nuclear size and selective ganglion cell loss in mouse models of glaucoma [Abstract Number: 2534 - Poster number B0150]. May 2, 3:45-5:30 pm. Location: Exhibit/Poster Hall.

Tuesday, May 3


DeLuca AP, Whitmore SS, Johnston RM, East JS, Daggett HT, Hoffmann JM, Scheetz TE, Stone EM. Interrogating the M/L Opsin Cluster using Exome Sequencing [Abstract Number: 3166 - Poster B0266]. May 3, 8:30-10:15am. Location: Exhibit/Poster Hall.


Sohn EH, Jiao C, Scruggs B, Brack D, Stone EM, Mullins RF, Tucker BA. Optimizing subretinal injection conditions for retinal gene and stem cell therapy [Abstract Number: 3738 – Poster D0199]. May 3, 11:00am - 12:45pm. Location: Exhibit/Poster Hall.

Gopalakrishna K, Boyd K, Artemyev N. Heterologous Expression of Functional PDE6 Requires Cooperative Action of AIP1L1 and the Inhibitory Py-subunit [Abstract Number: 3625 - Poster B0228]. May 3, 11:00am-12:15pm. Location: Exhibit/Poster Hall.


Scruggs B, Tucker BA, Jiao C, Riley J, Stone EM, Mullins RF, Sohn EH. Dissociation protocol and optimal conditions for clinical-grade induced pluripotent stem cell-derived retinal precursor cells [Abstract Number: 3736 - Poster D0197]. May 3, 11:00am-12:15pm. Location: Exhibit/Poster Hall.

Christiansen S. Using social media to promote vision research [Advocacy Workshop]. May 3, 1:40-2:00pm. Room 606/607.


Darma S, Schlingemann RO, Kok P, Abramoff MD, Holleman F, Verbraak FD. Type 2 diabetes mellitus patients with white dots in the central fundus and neuroretinal degeneration [Abstract Number: 4238 - Poster D0273]. May 3, 3:45-5:30pm. Location: Exhibit/Poster Hall.


**Wednesday, May 4**


Bermudez J, Webber HC, Brown B, Braun T, Clark AF, Mao W. Differential gene expression between trabecular meshwork cells of glucocorticoid responder and non-responder bovine eyes [Abstract Number: 4703 - Poster D0188]. May 4, 8:30-10:15am. Location: Exhibit/Poster Hall.


Gramlich OW, Zhu W, Burand A, Ankrum JA, Kuehn MH. Transplantation of cryopreserved MSC rescues retinal ganglion cells following I/R injury [Abstract Number: 4402 - Poster A0273]. May 4, 8:30-10:15am. Location: Exhibit/Poster Hall.

Zhu W, Gramlich OW, Tucker BA, Kuehn MH. iPSC-derived TM cells promote proliferation of primary TM cells [Abstract Number: 4680 - Poster D0165]. May 4, 8:30-10:15am. Location: Exhibit/Poster Hall.

Baker SA, Laird J, Lankford CK, Yamaguchi DM, Pan Y. Investigating 14-3-3 as a coordinator for the assembly and trafficking of HCN1 in photoreceptors [Abstract Number: 4803 - Poster A0019]. May 4, 11:00am-12:45pm. Location: Exhibit/Poster Hall.
Presentations at ARVO April 30-May 5, 2016

Goar WA, Searby CC, Whitmore SS, DeLuca AP, Im tirat A, Stone EM, Pavari R, Scheetz TE, Sheffield V. **Examination of sequencing data in three Israeli families with Keratoconus** [Abstract Number: 4823 - Poster A0039]. May 4, 11:00am-12:45pm. Location: Exhibit/Poster Hall.


Kardon RH, Thurtell M, Wall M, Ketcham A, Full JM, Starkey C. **Laser Speckle Blood Flow of the Choroid is Significantly Reduced in Patients with Acute Arteritic Anterior Ischemic Optic Neuropathy caused by Giant Cell Arteritis (GCA)** [Abstract Number: 5075 - Poster B0305]. May 4, 11:00am-12:45pm. Location: Exhibit/Poster Hall.

Carey A, Russell SR. **Cost-Benefit Analysis of Intravitreal Anti-VEGF Medications for the Treatment of Neovascular Age-Related Macular Degeneration in a Treat-And-Extend Regimen** [Abstract Number: 4983 - Poster A0373]. May 4, 11:00am-12:45pm. Location: Exhibit/Poster Hall.


Jain A, Zhu W, Kuehn MH, Clark AF, Sheffield V. **Effect of Primary Cilia on Trabecular Meshwork Cell Function** [Abstract Number: 5632 - Poster D0215]. May 4, 3:45-5:30pm. Location: Exhibit/Poster Hall.

Kasetti RB, Phan T, Searby CC, Sheffield V, Zode G. **Genetic and pharmacological inhibition of ER stress-induced ATF4/CHOP prodeath pathway prevents myocilin misfolding and rescues mouse models of glaucoma** [Abstract Number: 5634 - Poster D0217]. May 4, 3:45-5:30pm. Location: Exhibit/Poster Hall.

Nava DR, Zhang L, Lupashina T, Liang J, Shahi A, Abramoff MD, Wildsoet CF. **Participation of glucagonergic amacrine cells in the regulation of eye growth and refractive error: evidence from neurotoxins and in vivo immunolesioning in the chick** [Abstract Number: 5514 - Poster D0004]. May 4, 3:45-5:30pm. Location: Exhibit/Poster Hall.
Thursday, May 5

Miri MS, Abramoff MD, Kwon YH, Sonka M, Garvin MK. **Automated 3D Segmentation of Bruch’s Membrane Opening from SD-OCT Volumes** [Abstract Number: 5940 - Poster D0031]. May 5, 8:00-9:45am. Location: Exhibit/Poster Hall.

Tucker BA, Wiley LA, Burnight ER, Worthington KS, Cranston CM, Anfinson KR, Mullins RF, Stone EM. **Production of clinical-grade patient-specific iPSCs and transplantable photoreceptor precursor cells for the treatment of retinal degenerative blindness.** [Abstract Number: 6064 - Poster D0319]. May 5, 8:00-9:45am. Location: Exhibit/Poster Hall.

Sharma TP, Giacalone JC, Burnight ER, Wiley LA, Wiley JS, Madumba RA, Mullins RF, Stone EM, Tucker BA. **Human Disease Modeling of TRNT1-Associated Retinitis Pigmentosa in Patient-Derived Cells** [Abstract Number: 6060 - Poster D0315]. May 5, 8:00-9:46am. Location: Exhibit/Poster Hall.

Johnson CA, Wall M, Frisén L, Wagschal T. **Development and Reliability of the Tangent Corner Test (TCT) Visual Field Evaluation** [Abstract Number: 5977 - Poster D0068]. May 5, 8:00-9:45am. Location: Exhibit/Poster Hall.

Zhang L, Abramoff MD, Bogunovic H, Waldstein SM, Gerendas B, Schmidt-Erfurth U, Sonka M. **Automated Segmentation of Pigment Epithelial Detachment from SD-OCT** [Abstract Number: 5952 - Poster D0043]. May 5, 8:00-9:45am. Location: Exhibit/Poster Hall.

Lee K, Bogunovic H, Kwon YH, Garvin MK, Wahle A, Sonka M, Abramoff MD. **Automated Identification of Retinal Nerve Fiber Bundle Connectivity in 9-field SD-OCT** [Abstract Number: 5941 - Poster D0032]. May 5, 8:30-9:45am. Location: Exhibit/Poster Hall.

Sonka M, Zhang L, Zhang H, Abramoff MD. **Refinement of Choroid/Sclera Interface using Just-Enough-Interaction** [Abstract Number: 5953 - Poster D0044]. May 5, 8:00-9:45am. Location: Exhibit/Poster Hall.

Binkley EM, Watson JS, Russell SR, Mahajan VB, Boldt HC, Folk JC, Abramoff MD, Gehrs KM, Sohn EH. **Disease Recurrence Following Endophthalmitis Associated with Intravitreal Injection** [Abstract Number: 6372 - Poster C0159]. May 5, 11:am-12:15pm. Location: Exhibit/Poster Hall.


Chirco K, Whitmore SS, Zeng S, Workalemahu G, Potempa LA, Miller SE, Stone EM, Tucker BA, Mullins RF. **Monomeric C-reactive Protein and Altered Human Endothelial Cell Function in Age-related Macular Degeneration** [Abstract Number: 6554 - Poster D0303]. May 5, 11:00am-12:45pm. Location: Exhibit/Poster Hall.


