

## ARVO 2023 Presentations

<b>Date/Time</b>	<b>Presentation</b>	<b>Location</b>	<b>Authors</b>
April 22 1:45 PM	The use of electroretinography in diabetic retinopathy	R07-R08	Machelle T Pardue
April 23 8 AM	TRPV4 regulates cytoskeletal and extracellular matrix remodeling in Schlemm's canal cells	Poster # B0119	Haiyan Li, Cydney Wong, Kristin Perkumas, W Daniel Stamer, Todd Sulchek, C Ross Ethier
April 23 8 AM	Mortality in Neovascular Glaucoma	Poster # B0198	Kirstyn Taylor, Jose Cijin, Avital Okrent Smolar, Sachin Kedar, Vikas Gulati, Deepta Ghate
April 23 8 AM	Effects of age and ovariectomy on ECM and TGF- $\beta$ signaling gene sets in Brown Norway rat scleras	Poster # C0336	Cydney Wong, Gabriela Sánchez-Rodríguez, C Ross Ethier, Levi Wood, Andrew Feola
April 23 8 AM	Age and Ovariectomy affect retinal gene expression of TGF- $\beta$ , TNF- $\alpha$ and ECM related pathways	Poster # C0338	Gabriela Sanchez, Cydney Wong, Levi Wood, Andrew Feola
April 23 8 AM	Long-Term Treatment with Pentosan Polysulfate Causes Dose-Dependent Loss of ERG Amplitudes Over Time	Poster # C0409	Preston Elliott Girardot, Andrew Feola, Debresha Shelton, Tatiana Getz, Nieraj Jain, John Nickerson, Jeffrey Boatright
April 23 12 PM	Rod pathway electrical activity is modulated in the myopic mouse	Poster # C0526	Reece Mazade, Machelle T Pardue
April 23 12 PM	Effects of acute light exposure on retinal dopamine and adenosine	Poster # C0527	Sarah Talwar, Reece Mazade, Machelle Pardue
April 23 12 PM	Effect of OCT Alignment on Ocular Parameters in the Mouse Eye	Poster # C0530	Linjiang Lou, Katelyn Hall, Machelle Pardue
April 23 12 PM	Lens-induced myopia alters scleral fibroblast populations in mice	Poster # C0535	Melissa Bentley-Ford, Reece Mazade, C Ross Ethier, Machelle Pardue
April 23 12 PM	Gene expression signature associated with hypoxia in human uveal melanoma cells	Poster # C0636	Hua Yang, Stefan Kaluz, Satoru Osuka, Margaret Offermann, Erwin Van Meir, Hans Grossniklaus
April 23 12 PM	The Role of Macrophages in Vascular Formation in Uveal Melanoma	Poster # C0661	Hans E Grossniklaus, Nicholas Zhang, Carmen Morote Garcia, Ahmet Coskun, Jana Sellers, Yutao Yan, Karina Bostwick, Hua Yang
April 23 3:45 PM	A multicenter analysis of nucleic acid quantification using aqueous humor liquid biopsy in retinoblastoma; Implications for clinical testing	Poster # C0618	Liya Xu, Deborah Im, Sarah Pike, Mark Reid, Chen-Ching Peng, Hans Grossniklaus, G. Baker Hubbard, Alison Skalet, Carol Shields, Sarah Lally, Andrew Stacey, Bibiana Reiser, Aaron Nagiel, Rachana Shah, Jesse Berry

April 24 11:30 AM	Quantifying specificity of stem cell delivery to the trabecular meshworkB0363: Bmal1 modulates mitochondrial morphology and functioning in 661W cells	Poster # B0234	M. Reza Bahrani Fard, Jessica Chan, Marybeth Yonk, A. Thomas Read, Shreya Kuturu, Stanislav Emelianov, Markus Kuehn, C Ross Ethier
April 24 11:30 AM	Bmal1 modulates mitochondrial morphology and functioning in 661W cells	Poster # B0363	Nicolas Diaz, Sondip Biswas, Wei Zhong, Khaleel Bashir, Ting-Chung Suen, Jason DeBruyne, Gianluca Tosini, Sharon Francis, Kenkichi Baba
April 24 11:30 AM	Longer term follow-up for children with Coats disease treated with 577-nm yellow laser: complications, recurrences, and adjuvant treatments	Poster # C0226	Ethan K Sobol, G. Baker Hubbard
April 24 3:15 PM	Loss of Pigment Epithelium Derived Factor Sensitizes Photoresistant C57BL6J mice to Acute Light-Induced Retinal Damage	Poster # B0389:	Debresha Auriel Shelton, Tatiana Getz, Jack Papania, Preston Girardot, Seong Kim, Micah Chrenek, Jeffrey Boatright, John Nickerson
April 24 3:15 PM	Gene-environment interaction between mitophagy regulator, Pink1, and smoking generates a range of AMD like phenotype in the mouse RPE	Poster # C0340	Sayantana Datta, Ganesh Satvanarayana, Marisol Cano, James Handa
April 25 8:45 AM	Subretinal delivery by non-surgical, transscleral injection using a microneedle	Poster # B0338	Amir Hejri, Micah Chrenek, Nolan Goehring, Jiong Yan, John Nickerson, Mark Prausnitz
April 25 8:45 AM	Spatial and morphological heterogeneity of RPE in mouse and human	Rm. R07-R08, #2441	John N. Nickerson
April 25 1:15 PM	Menopause is Associated with Age of Developing Glaucoma: A Retrospective Study of Female Veterans	Rm. 345 #2909	Kelleigh Hogan, Xiangqin Cui, Annette Giangiacomo, Andrew Feola
April 25 3:30 PM	Hydrogel Expansion of the Suprachoroidal Space Lowers IOP in Rabbit and Monkey Eyes	Poster # B0261	Carol Toris, Vikas Gulati, Shan Fan, Mark Prausnitz, C Ross Ethier
April 25 3:30 PM	Pentosan polysulfate maculopathy: 3-year outcomes from a prospective study of disease course following drug cessation	Poster # C0434	Emily H Jung, Aaron Lindeke-Myers, Nieraj Jain
April 26 10:30 AM	Interplay of mitochondria and serine metabolism in ROS management in AMD	Poster # B0176	Ganesh Satvanarayan, Sayantan Datta
April 26 11 AM	Dopamine changes in retina and brain in a high fat diet (HFD)+STZ model of diabetes	Rm. 244 # 3801	Rachael S Allen, Stephen Phillips, Amber Douglass, Jessica Solomon, Lidia Cardelle, Monica Coulter, Michael Kelberman, Leo Portnoy, David Weinschenker, Machelldue Pardue
April 26 11:15 AM	Serum biomarkers correlate with retinal function changes in a high fat diet (HFD)+STZ model of Type II diabetes	Rm. 244 # 3802	Stephen Phillips, Andrew Feola, Jessica Solomon, Lidia Cardelle, Amber Douglass, Katie Bales, Monica Coulter, Lauren Hutson, Cara Motz, Ally Grubman, Jeffrey Boatright, Machelldue Pardue, Rachael Allen

<i>April 26 2:15 PM</i>	Running wheel exercise preserves photoreceptor mitochondrial morphology in aged light-induced retinal degeneration (LIRD) mice	Poster # B0024	GianMarco Lee Douglas, Katie Bales, John Nickerson, Mabelle Pardue, Jeffrey Boatright
<i>April 26 2:15 PM</i>	RPE layer morphology: Experimental isolation methods	Poster # B0035	Jack T Papania, Tatiana Getz, Debresha Shelton, Micah Chrenek, Jeffrey Boatright, John Nickerson
<i>April 26 2:15 PM</i>	Voluntary exercise preserves visual function and reduces inflammatory cytokine expression in an adult mouse model of autosomal dominant retinitis pigmentosa	Poster # B0058	Katie Bales, Austin Karesh, Alicia Chacko, GianMarco Douglas, Kelleigh Hogan, Andrew Feola, Alyssa Pybus, Levi Wood, Jeffrey Boatright, Mabelle Pardue
<i>April 26 2:15 PM</i>	Forced exercise paradigm promotes decreased recruitment of retinal inflammatory cells and protects against retinal degeneration	Poster # B0059	Hayden Haupt, Katie Bales, GianMarco Douglas, Joshua Chu-Tan, Riccardo Natoli, John Nickerson, Mabelle Pardue, Jeffrey Boatright
<i>April 26 2:15 PM</i>	Knocking out Stat3 in rod photoreceptor cells unexpectedly protects against light-induced retinal degeneration	Poster # B0066	Jana T Sellers, Micah Chrenek, Manuela Garcia, April Still, P. Michael Iuvone, John Nickerson, Jeffrey Boatright
<i>April 26 2:15 PM</i>	Macular hyperautofluorescent ring characteristics among individuals with EYS-associated retinal degeneration.	Poster # C0122	Nieraj Jain
<i>April 26 2:15 PM</i>	Retina-Targeted Estrogen Therapy Preserves Visual Function After Ganglion Cell Injury Following Ovariectomy in Rats	Poster # C0241	Andrew J. Feola, Katalin Prokai, Kelleigh Hogan
<i>April 27 10:30 AM</i>	Germline knockout of Interphotoreceptor Retinoid Binding Protein on the DBA/2J background causes loss of retinal function, axial elongation, and morphological defects	Poster # B0177	Tatiana Getz, Jack Papania, Micah Chrenek, Debresha Shelton, Vivian Summers, Jeffrey Boatright, John Nickerson
<i>April 27 10:30 AM</i>	High-Level Visual Impairments and their Impact on Quality of Life in Glaucoma	Poster # C0187	Jose Cijin, Rebecca Rennert, Avital Okrent Smolar, Sachin Kedar, David Reed, Daniel Dilks, Deepta Ghate