



**The Association for Research in Vision and Ophthalmology (ARVO) 2022 Department Activities**  
*(All listed times in CDT)*

**SUNDAY, MAY 1, 2022**

Time	Main Session	Type	#	Poster/Paper Title	Author(s)/Moderator(s)	Speaker/s	Location
2:40 PM - 2:57 PM	Neurodegeneration	Paper	2C/3C Mile High Blrm	Early neuroinflammatory responses in the visual pathway in a feline inherited glaucoma model	Kazuya Oikawa, Julie Kiland, Virginia Mathu, Odalys Torne, Gillian McLellan	Kazuya Oikawa	Presenting Virtually
3:45 PM - 5:45 PM	Diabetic Retinopathy Epidemiology	Poster	A0126	Analysis of Health System Effect on Diabetic Eye Screening Variability in Rural Versus Urban Underserved Primary Care Clinics	Loren Lock, Roomasa Channa, Meghan Brennan, Ying Cao, Christiana Fowlkes, Yao Liu	Loren Lock	Presenting in Denver
6:15 PM - 8:15 PM	Neuron rescue and regeneration in the retina	Paper	2B/3B Mile High Blrm	Neuron rescue and regeneration in the retina		Dongfeng Chen, Colleen McDowell	Presenting in Denver
6:15 PM - 8:15 PM	Imaging of Posterior Segment	Poster	Virtual	Optical Coherence Tomography (OCT) Risk Markers for Progression of Intermediate Age-Related Macular Degeneration (AMD) to Late AMD	Jeong Pak, Kenneth Taylor, Samuel Whittier, Andrew Dieu, Rick Volland, Barbara Blodi, Amitha Domalpally	Jeong Pak	Presenting Virtually
6:15 PM - 8:15 PM	Imaging of Posterior Segment	Poster	Virtual	Redefining the Spectrum of Pentosan Polysulfate Retinopathy: Multimodal Imaging Findings from a Cross- Sectional Screening Study	Mihai Mititelu, Andrew Dieu, Samuel Whittier, Jeong Pak, Rick Volland, Kelly Boyd, Justin Gottlieb, Gordon Crabtree, Dobie Giles, Amitha Domalpally	Mihai Mititelu	Presenting Virtually
6:15 PM - 8:15 PM	Imaging of Posterior Segment	Poster	F0275	Multimodal Imaging Evaluation of Age-Related Macular Degeneration (AMD) in the AMD Ryan Initiative Study (ARIS)	Andrew Dieu, Cynthia Hurtenbach, Jeong Pak, Tiarnan Keenan, Frederick Ferris, Charles Wilkinson, Christine Orndahl, Traci Clemons, Emily Chew, Amitha Domalpally	Andrew Dieu	Presenting Virtually

**MONDAY, MAY 2, 2022**

Time	Main Session	Type	#	Poster/Paper Title	Author(s)/Moderator(s)	Speaker/s	Location
11:00 AM - 1:00 PM	AI in Retina	Paper	Four Seasons Blrm 1	AI in Retina		Amitha Domalpally, Aaron Lee	
11:00 AM - 1:00 PM	Retina Development and Regeneration	Poster	F0290	Functional development of cone photoreceptors in human stem cell derived retinal organoids	Aindrila Saha, Elizabeth Capowski, Maria Zepeda, Emma Nelson, David Gamm, Raunak Sinha	Aindrila Saha	Presenting in Denver
11:00 AM - 11:17 AM	Glaucoma Genetics	Paper	1EF Mile High Blrm	PIEZO1 and PIEZO2 pathogenic variants identified in primary congenital glaucoma	Terri Young, Kristina Whisenhunt, Sean Martin, Stuart Tompson	Terri Young	Presenting in Denver
1:30 PM - 3:30 PM	Retinal Vascular Diseases	Poster	F0193	Association Between Retinal Hemorrhage and Visual Acuity in the Study of Comparative Treatments for Retinal Vein Occlusion 2 (SCORE2)	Anthony Gjyzeli, Samuel Whittier, Amitha Domalpally, Barbara Blodi, Ingrid Scott, Michael Ip, Neal Oden, Paul Van Veldhuisen, Rick Volland, Sheila Watson, Adrian Au, David Sarraf	Anthony Gjyzeli	Presenting in Denver
1:51 PM - 2:12 PM	Retinal Disease, Therapy and Development Using Human Retinal Organoids	Minisymposium Talk	4AB Mile High Blrm	Demonstration of a fully penetrant outer segment disease phenotype in human retinal organoids harboring IMPG2 mutations	David M. Gamm	David Gamm	Presenting in Denver
4:00 PM - 4:21 PM	Molecular Determinants of Variable Phenotypes in Ocular Disorders	Minisymposium Talk	4AB Mile High Blrm	A different paradigm: childhood glaucoma inheritance, modifiers and spectrum	Terri L. Young	Terri Young	Presenting in Denver
4:00 pm - 6:00 pm	Machine Learning: Segmentation and Classification	Poster	F0073	Artificial Intelligence (AI) Enabled Pre-Screening for Diabetic Retinopathy (DR) Clinical Trials	Nancy Barrett, Robert Slater, Roomasa Channa, Amitha Domalpally, Barbara Blodi	Nancy Barrett	Presenting in Denver
4:00 pm - 6:00 pm	Diabetic Retinopathy	Poster	F0255	Long-term effects of anti-VEGF therapy versus panretinal photocoagulation (PRP) on retinal vessel caliber in eyes with proliferative diabetic retinopathy (PDR)	Steven Shen, Kristin Josic, Jeong Pak, Stacy Meuer, Amitha Domalpally, Barbara Blodi	Steven Shen	Presenting in Denver

TUESDAY, MAY 3, 2022

Time	Main Session	Type	#	Poster/Paper Title	Author(s)/Moderator(s)	Speaker/s	Location
2:00 PM - 4:00 PM	Optics: Accommodation, Lens and Ocular Biometry	Poster	Virtual	Accommodative movements of the lens, anterior hyaloid and choroid are correlated with accommodative amplitude but the relationships change with age	Mary Ann Croft, Gregg Heatley, T Michael Nork, Jared McDonald, Alex Katz, Paul Kaufman	Mary Ann Croft	Presenting Virtually
2:00 PM - 4:00 PM	AI in the Retina	Poster	F0269	Influence of Race on Training Data Quality for Artificial Intelligence (AI) Algorithms	Amitha Domalpally, Rick Voland, Robert Slater, Ellie Corkery, Pamela Vargo, Becky Kuhtz, James Reimers, Roomasa Channa, Barbara Blodi	Amitha Domalpally	Presenting in Denver
2:00 PM - 4:00 PM	AI in the Retina	Poster	Virtual	Deep Learning Assisted Quantification of Neovascular Lesions with Optical Coherence Tomography Angiography (OCT-A)	Jesse Ward, Robert Slater, Jeong W. Pak, Rachel Linderman, Rick Voland, Roomasa Channa, Barbara Blodi, Amitha Domalpally	Jesse Ward	Presenting Virtually
2:00 PM - 4:00 PM	AI in the Retina	Poster	F0260	Implementation of a Large-Scale Retinal Image Curation Workflow Using Deep Learning Framework	Rohit Balaji, Jen Heathcote, Robert Slater, Nancy Barrett, Rick Voland, Vesna Tomic, Jared McDonald, Barbara Blodi, Amitha Domalpally	Rohit Balaji	Presenting in Denver
2:00 PM - 4:00 PM	AI in the Retina	Poster	F0280	Improving Reliability of Retinal Vessel Caliber Measurement Using Deep Convolutional Autoencoder	Robert Slater, Jeong Pak, Stacy Meuer, Rick Voland, Julie Mares, Roomasa Channa, Barbara Blodi, Amitha Domalpally	Robert Slater	Presenting in Denver
2:00 PM - 4:00 PM	Glaucoma: Biochemistry, Biomechanics and Omics	Poster	A0069	Molecular pathology of the glaucomatous optic nerve head	Colleen McDowell, Emma Geiduschek	Colleen McDowell	Presenting in Denver
4:30 PM - 6:30 PM	Aqueous Humor Dynamics and Trabecular Meshwork	Poster	Virtual	Effect of acute intraocular pressure (IOP) elevation in normal and feline congenital glaucoma (FGC) eyes due to LTBP2 mutation	Odalys Torne, Kazuya Oikawa, Julie Kiland, Gillian McLellan	Odalys Torne	Presenting Virtually
4:30 PM - 6:30 PM	Clinical Uveitis and Scleritis: Therapies and Outcomes	Poster	Virtual	Therapeutic Outcomes of Scleritis Treated with Tumor Necrosis Factor Inhibitors	Jaime Brown, Akshay Thomas, Karen Armbrust, Kelly Boyd, Meghan Berkenstock, Laura Kopplin	Jaime Brown	Presenting Virtually

WEDNESDAY, MAY 4, 2022

Time	Main Session	Type	#	Poster/Paper Title	Abstract Author Block	Speaker/s	Location
11:00 AM - 1:00 PM	Macular Diseases/Macular Edema/Functional Testing/Evaluation/Laser	Poster	Virtual	Using Imaging Biomarkers and Anatomic Features To Predict the Success of Macular Hole Repairs	Paige Richards, Jonathan Chang	Paige Richards	Presenting Virtually
1:30 PM - 3:30 PM	Drug Delivery	Poster	F0144	Effect of intraocular pressure (IOP), volume and location on the distribution of aqueous solutions injected into the suprachoroidal (SC) space	T Michael Nork, Alex Katz, Charlene Kim, Carol Rasmussen, James Ver Hoeve, Hugh Wabers, Ellison Bentley, Craig Struble, Anneli Savinainen	T. Michael Nork	Presenting in Denver
2:55 PM - 3:12 PM	Development of Molecular Therapies for Inherited Ocular Disease	Paper	1EF Mile High Blrm	Functional restoration of Kir7.1 nonsense mutations using engineered tRNA	Bikash Pattnaik, Meha Kabra, Pawan Shahi, Enes Akyuz, Christopher Ahern	Bikash Pattnaik	Presenting in Denver
4:00 PM - 6:00 PM	Multidisciplinary Ophthalmic Imaging	Poster	Virtual	Persistent Subclinical Photoreceptor Loss in a Patient with Acute Posterior Multifocal Placoid Pigment Epitheliopathy After Reactivation of Symptoms post COVID Vaccine	Laura Kopplin, Kimberly Stepien, Nickie Stangel, Jeremy Rogers	Laura Kopplin	Presenting Virtually
4:00 PM - 6:00 PM	Multidisciplinary Ophthalmic Imaging	Poster	Virtual	Elucidating early cellular retinal structural changes in GUCA1A-related autosomal dominant cone dystrophy	Kimberly Stepien, Nickie Stangel, Jeremy Rogers	Kimberly Stepien	Presenting Virtually