



University of Iowa at ARVO 2025

Date	Start Time	End Time	Title	Session	Location	Topic	Authors (*Presenter)
5/4/2025	8:00 AM	9:45 AM	A0088: Dynamic Variation in Clinically Relevant Optical Parameters	Poster Session: Optics: Wavefront aberrations, refractive correction, adaptive optics, and performance	Hall A-E	Visual Psychophysics/Physiological Optics	*Christine W. Sindt , Xifeng Xiao, Daniel R. Neal
5/4/2025	8:00 AM	9:45 AM	A0176: Cystoid macular edema in retinitis pigmentosa is spatially correlated with deep capillary plexus loss	Poster Session: Clinical Applications in OCT Angiography	Hall A-E	Multidisciplinary Ophthalmic Imaging Group	*Taariq Mohammed , Douglas Brice Critser, Edwin Stone, Ian Han
5/4/2025	1:00 PM	2:45 PM	A0212: Deep learning-based quantitative indices of fluid in DME OCT scans trained on diverse disease populations correlate with visual acuity	Poster Session: Machine Learning for Segmentation and Other Applications	Hall A-E	Multidisciplinary Ophthalmic Imaging Group	*Zhi Chen , Honghai Zhang, Karl Wilson, Bernardo Bach, Milan Sonka, Elliott H. Sohn
5/4/2025	3:15 PM	5:00 PM	A0031: Surgical Management Patterns of Iris Lesions Suspicious for Melanoma at a Tertiary Referral Center	Poster Session: Uveal Melanoma	Hall A-E	Anatomy and Pathology/Oncology	*Kaitlyn Grimes , Danielle Pellack, Noriyoshi Takahashi, Jui-Kai Wang, Elaine Binkley, Andrew E. Pouw
5/5/2025	8:30 AM	10:15 AM	A0268: Establishing an Open-Source Normative Database with the Iowa VR Headset Perimeter	Poster Session: Binocular Vision, Eye Movements, Accommodation and Virtual Reality	Hall A-E	Visual Psychophysics/Physiological Optics	*Joseph Heyrman , Michael Wall, Iván Marin-Franch, Edward Fort Linton
5/5/2025	8:30 AM	10:15 AM	B0428: Social vulnerability index by zip code and male sex are predictors of tube shunt versus trabeculectomy selection in the surgical management of open-angle glaucoma	Poster Session: Advances in Glaucoma Diagnostics, Comorbidities, and Clinical Outcomes	Hall A-E	Clinical/Epidemiologic Research	*Hend Al-Kaylani , Hansen Dang, Kristin Davis, Joel VandeLune, Quinton Christensen, Andrew E. Pouw
5/6/2025	8:30 AM	10:15 AM	A0171: Development of a tear-based assay to differentiate ocular surface squamous neoplasia from pterygia	Poster Session: Ocular Surface, Adnexa, and Orbit	Hall A-E	Anatomy and Pathology/Oncology	*Wisam Najdawi , Wendy Li, Acadia Moeyersoms, Ryan Gallo, Despoina Theotoka, Qikai Wang, Mike Zein, Mona Amer, David Monroy, Sofia De Arrigunaga, Stefan Kurtenbach, Daniel Pelaez, Carol L. Karp
5/6/2025	8:30 AM	10:15 AM	A0212: Rho kinase inhibitor liposomal therapy for preventing Fuchs endothelial corneal dystrophy progression	Poster Session: Corneal Endothelium I	Hall A-E	Cornea	*Apurva Dusane , Hanna Shevalye, Timothy Eggleston, Sanjib Saha, Jessica Skeie, Swathi Kalidindi, Cynthia Okafor, Gregory Schmidt, Mark A. Greiner, Aliasger Salem
5/6/2025	8:30 AM	10:15 AM	A0220: Investigating Ferritinophagy in Fuchs Endothelial Corneal Dystrophy	Poster Session: Corneal Endothelium I	Hall A-E	Cornea	*Zachary Shepard , Jessica Skeie, Hanna Shevalye, Timothy Eggleston, Gregory Schmidt, Mark A. Greiner
5/6/2025	8:30 AM	10:15 AM	A0260: Investigating Differential Carbohydrate Moiety Expression in Corneal Endothelial Cell/Descemet Membrane Tissues in Fuchs Endothelial Corneal Dystrophy Patients With and Without Type 2 Diabetes Mellitus	Poster Session: Corneal Endothelium II	Hall A-E	Cornea	*Emma Hartness , Jessica Skeie, Hanna Shevalye, Gregory Schmidt, Mark A. Greiner
5/6/2025	8:30 AM	10:15 AM	A0414: Magnetic Guidance of Adipose-Derived Mesenchymal Stem Cells in Human Ocular Perfusion Culture	Poster Session: Glaucoma: Aqueous outflow cell biology	Hall A-E	Glaucoma	*Markus H. Kuehn , Yuyza Irizarry, Catherine A A Lee, C Ross Ethier
5/6/2025	8:30 AM	10:15 AM	B0337: Visual Field Deterioration and Improvement in Acute Non-Arteritic Ischemic Optic Neuropathy	Poster Session: Neuro-Ophthalmology	Hall A-E	Eye Movements/Strabismus/Amblyopia/Neuro-Ophthalmology	*Michael Wall , David Szanto, Paul H. Artes, Mark J. Kupersmith
5/6/2025	8:30 AM	10:15 AM	B0344: Histopathologic Comparison of Human Optic Nerves in Multiple Sclerosis and Control Subjects	Poster Session: Neuro-Ophthalmology	Hall A-E	Eye Movements/Strabismus/Amblyopia/Neuro-Ophthalmology	*Oliver W. Gramlich , Benjamin W. Elwood, Erin N. Capper, Randy H. Kardon

5/6/2025	8:30 AM	10:15 AM	B0345: A Longitudinal Analysis of Visual System Alterations in Experimental Optic Neuritis	Poster Session: Neuro-Ophthalmology	Hall A-E	Eye Movements/Strabismus/Amblyopia/Neuro-Ophthalmology	*Jeffrey J. Anders , Benjamin W. Elwood, Sarah G. Brumley, Randy H. Kardon, Oliver W. Gramlich
5/6/2025	8:30 AM	10:15 AM	B0360: Divergent Pathways in Optic Neuritis: Transcriptomic Insights into Demyelinating Disorder Models	Poster Session: Neuro-Ophthalmology	Hall A-E	Eye Movements/Strabismus/Amblyopia/Neuro-Ophthalmology	*Maria Fernanda Valdes Michel , Sabrina Reinehr, Katharina Klöster, Erin N. Capper, Jeffrey J. Anders, Michael Chimenti, Laura Neumann, Randy H. Kardon, H. Burkhard Dick, Ralf Gold, Simon Faissner, Stephanie C. Joachim, Oliver W. Gramlich
5/6/2025	8:50 AM	9:05 AM	Critical Issues for FDA Submissions for Autonomous AI	Minisymposium: AI Regulation and implementation in ophthalmology	255ABC	Retina	*Michael David Abramoff
5/6/2025	9:30 AM	9:45 AM	Paper #2744: Two-step deep-learning approach for retinal ganglion cell complex segmentation in mouse OCT using a pre-trained human OCT model	Paper Session: Progress in Molecular and Animal Model Imaging	Ballroom I	Multidisciplinary Ophthalmic Imaging Group	*Yun Jae Choi , Jui-Kai Wang, Jeffrey J. Anders, Zhi Chen, Honghai Zhang, Milan Sonka, Mona K. Garvin, Randy H. Kardon, Oliver W. Gramlich
5/7/2025	10:15 AM	10:30 AM	Paper #4091: Retinal Changes in Rs1-KO Mice: Role of Light and Dark Adaptation	Paper Session: Retinal Disease and neuronal repair	Ballroom J	Visual Neuroscience	*Salma Hassan , Sarah Stanley, Ethan Brandauer, Joseph Laird, Ying Hsu, Arlene V. Drack; Paper Session Moderator: *Arlene V. Drack
5/7/2025	10:15 AM	12:00 PM	A0138: Clinical characterization of neovascular AMD subjects genotyped for MMP9, CFH, and ARMS2	Poster Session: AMD 4 (clinical research)	Hall A-E	Retina	*Bernardo Bach , Thomas Martinez, Benjamin Roos, Mary McCormick, Christine Sinkey, Kai Wang, Edwin Stone, John H. Fingert, Todd E. Scheetz, Elliott H. Sohn
5/7/2025	10:15 AM	12:00 PM	A0184: Automated Segmentation of Ellipsoid Zone Pathology with Deep Learning	Poster Session: AI in Retina II	Hall A-E	Retina	*Matthew Hunt , Zhi Chen, Zach Q. Mortensen, Tirth Shah, Charles Clifton Wykoff, Michael David Abramoff, Milan Sonka, Elliott H. Sohn
5/7/2025	10:15 AM	12:00 PM	A0236: Short- and Long-Term Retest Variability of Blood Flow in Healthy Subjects Using Laser Speckle Flowgraphy	Poster Session: Functional imaging and New imaging Biomarkers	Hall A-E	Multidisciplinary Ophthalmic Imaging Group	*Edward Fort Linton , Michael Jones, Julie Nellis, Riley Fillister, Randy H. Kardon
5/7/2025	10:15 AM	12:00 PM	A0284: Restoration of IFT140 via dual AAV vectors and a unidirectional DNA recombination system prevents or delays retinal degeneration in an IFT140 mouse model	Poster Session: New gene and drug delivery systems	Hall A-E	Biochemistry/Molecular Biology	*Seongjin Seo , Kun-Do Rhee, Poppy Datta, Clairissa Baccam, Arlene V. Drack
5/7/2025	10:15 AM	12:00 PM	B0146: Validation of automated guttae quantification compared to expert manual grading in Fuchs endothelial corneal dystrophy	Poster Session: Corneal Imaging	Hall A-E	Cornea	*Simran Sarin , Jérôme Abou Assi, Bridget Zimmerman, Jessica Skeie, Mark A. Greiner
5/7/2025	2:00 PM	3:45 PM	A0088: PAVIA phase 2 trial of EYP-1901 in nonproliferative diabetic retinopathy: 12-month results	Poster Session: Diabetic Retinopathy: Medical	Hall A-E	Retina	*David RP Almeida , Ramiro Ribeiro
5/7/2025	2:00 PM	3:45 PM	A0447: T-cell mediated retinal ganglion cell loss is facilitated by mild elevation in intraocular pressure	Poster Session: Glaucoma: Neuroinflammation and neurodegeneration	Hall A-E	Glaucoma	*Jordan Mayberry , Shuyu Xian, Markus H. Kuehn
5/7/2025	2:00 PM	3:45 PM	B0272: Comparative Outcomes of Kahook Dual Blade Goniotomy and Gonioscopy-Assisted Transluminal Trabeculotomy in Steroid-Induced/Uveitic Glaucoma vs. Other Open-angle Glaucoma	Poster Session: Glaucoma: Lasers and surgery	Hall A-E	Glaucoma	*Joel VandeLune , Hansen Dang, Quinton Christensen, Danielle Pellack, Christina Kaufman, Aditya Somisetty, Lydia Yang, Erin Boese, Andrew E. Pouw
5/7/2025	2:00 PM	3:45 PM	B0273: Evaluating Intraoperative Failure Rates: Kahook Dual Blade versus Hydrus Microstent in Glaucoma Treatment	Poster Session: Glaucoma: Lasers and surgery	Hall A-E	Glaucoma	*Aditya Somisetty , Danielle Pellack, Hend Al-Kaylani, Lydia Yang, Hansen Dang, Joel VandeLune, Quinton Christensen, Andrew E. Pouw
5/7/2025	2:00 PM	3:45 PM	B0274: Surgical outcomes between Hydrus Microstent and Kahook Dual Blade Goniotomy in a real-world setting	Poster Session: Glaucoma: Lasers and surgery	Hall A-E	Glaucoma	*Hansen Dang , Joel VandeLune, Danielle Pellack, Quinton Christensen, Aditya Somisetty, Lydia Yang, Erin Boese, Andrew E. Pouw

5/7/2025	2:00 PM	3:45 PM	B0296: Postoperative safety and efficacy of a Baerveldt glaucoma implant modification for earlier intraocular pressure lowering, compared to non-modified Baerveldt implant	Poster Session: Glaucoma: Lasers and surgery	Hall A-E	Glaucoma	*Quinton Henry Christensen , Kristin Davis, Lydia Yang, Joel VandeLune, Hend Al-Kaylani, Andrew B. Zolot, Erin Boese, Andrew E. Pouw
5/7/2025	2:00 PM	3:45 PM	B0297: A comparison of the efficacy and safety of a modified Baerveldt drainage implant versus the Ahmed glaucoma valve after 1 year of follow-up.	Poster Session: Glaucoma: Lasers and surgery	Hall A-E	Glaucoma	*Kristin Davis , Quinton Henry Christensen, Joel VandeLune, Hend Al-Kaylani, Hansen Dang, Andrew B. Zolot, Erin Boese, Andrew E. Pouw
5/8/2025	8:00 AM	9:45 AM	A0043: Assembling the Visual Pathway In Vitro	Poster Session: 2D and 3D Stem cell disease modeling	Hall A-E	Retinal Cell Biology	*Michael H. Hayes , Maria Fernanda Valdes Michel, Randy H. Kardon, Oliver W. Gramlich
5/8/2025	8:00 AM	9:45 AM	A0316: Assembling the Visual Pathway In Vitro	Poster Session: Image Processing and Machine Learning for Classification	Hall A-E	Multidisciplinary Ophthalmic Imaging Group	*Brian Woods , David Szanto, Asala Erekat, Jui-Kai Wang, Aaron Golden, Mona K. Garvin, Randy H. Kardon, Edward Fort Linton, Mark J. Kupersmith
5/8/2025	8:00 AM	9:45 AM	B0424: Characterizing backgrounds, motivations, and activity type underlying r/ophthalmology subreddit usage among global users	Poster Session: Ophthalmology residency recruitment, training, and workforce development	Hall A-E	Clinical/Epidemiologic Research	*Lilly Gonzalez , Maram El-Geneidy, Andrew E. Pouw
5/8/2025	12:00 PM	12:15 PM	Paper #5857: Artificial Intelligence Can Differentiate Causes of Optic Disc Edema Using Unsegmented OCTs	Paper Session: Neuro-Ophthalmology	255E	Eye Movements/Strabismus/Amblyopia/Neuro-Ophthalmology	*David Szanto , Jui-Kai Wang, Brian Woods, Mona K. Garvin, Randy H. Kardon, Edward Fort Linton, Mark J. Kupersmith