

**Departmental Activities**

Association for Research in Vision and Ophthalmology  
2025 Annual Meeting



**Department of Ophthalmology  
and Visual Sciences**  
UNIVERSITY OF WISCONSIN  
SCHOOL OF MEDICINE AND PUBLIC HEALTH

<b>Sunday, May 4 2025</b>				
<b>Time</b>	<b>Main Session</b>	<b>Location</b>	<b>Presentation/ Poster Title</b>	<b>Presenter/Author</b>
8:00-9:45 AM	Poster Session 108  Antiinflammatory Agents, Ocular Toxicity, Cytokines and Growth Factors	Hall A-E	<b>Poster #A0424</b>  Preexisting Fundus Findings in a Large Cohort of Young Nonhuman Primates (NHPs) Bred for Research	<b>T. Michael Nork</b>  Abstract Author Block: *T Michael Nork, Carol Rasmussen, Paul A. Miller, Hugh D. Wabers, Alexander Katz, Charlene B Y Kim, James N. Ver Hoeve, Brian J. Christian, Christopher J. Murphy, Peter Sonnentag
1:00-2:45 PM	Poster Session 137  Glaucoma: Aqueous Outflow Physiology and Tonometry	Hall A-E	<b>Poster # B0387</b>  Comparison of the TONOVET Pro <sup>®</sup> , TONOVET Plus <sup>®</sup> , and TONOVET <sup>®</sup> Tonometers in a Feline Glaucoma Model	<b>Julie Kiland</b>  Abstract Author Block: *Julie Kiland, Sarah Hao, Kyle Peterson, Gillian J. McLellan
3:15-5:00 PM	Poster Session 155  High Resolution Imaging and Clinical Applications	Hall A-E	<b>Poster #A0126</b>  Retinal Imaging in Mice and Primates Using the Same Compact AOSLO with Scalable Pupil	<b>Jeremy Rogers</b>  Abstract Author Block: *Jeremy Rogers, Jake Khoussine, Khadijeh Masumnia-Bisheh, Alfredo Dubra

<b>Monday, May 5, 2025</b>				
<b>Time</b>	<b>Main Session</b>	<b>Location</b>	<b>Presentation/Poster Title</b>	<b>Presenter/Author</b>
8:30-10:15 AM	Poster Session 222  Pre-clinical and Clinical Cell and Gene Therapy	Hall A-E	<b>Poster #B0200</b>  Vasculature Degeneration in the Eyes of FVB/N Mouse	Qiuying Liu  Abstract Author Block: Quiying Liu, Ismail Zaitoun
8:30-10:15AM	Poster Session 223  Glaucoma Epidemiology, Risk Factors, and Social Determinants	Hall A-E	<b>Poster #B0380</b>  Global Prevalence and Incidence of Pseudoexfoliation Syndrome and Pseudoexfoliation Glaucoma: A Systematic Review and Meta-analysis	<b>Amirhossein Roshanshad</b>  Author Abstract Block: *Amirhossein Roshanshad, Zahra Rahimian, Romina Roshanshad, Mohammadreza Akbari, Zahra Amirsardari, Paul L. Kaufman, Hossein Molavi Vardanjani
8:30-10:15 AM	Poster Session 225  AI in Retina I	Hall A-E	<b>Poster #B0470</b>  Artificial Intelligence (AI)-Based Prescreening for Diabetic Retinopathy Trials	<b>Nancy Barrett</b>  Abstract Author Block: *Nancy Barrett, Robert Slater, Rachel E. Linderman, Rick Volland, Claire Calhoun, Jennifer K. Sun, Barbara A. Blodi, Amitha Domalpally
			<b>Poster #B0476</b>  B0476: AI-enabled Multi-disease OCT Segmentation	<b>Caleb Pacheco</b>  Abstract Author Block: *Caleb Pacheco, Rachel E. Linderman, Madeline Pflasterer-Jennerjohn, Mark Banghart, Robert Slater, Roomasa

				Channa, Amitha Domalpally
9:30-9:45 AM	Paper Session 201 AMD Imaging	255 ABC	<b>Presentation #1338</b> Longitudinal Study of Macular Preservation and Geographic Atrophy Progression in AREDS2	Sairi Zhang  Abstract Author Block: *Sairi Zhang, Thomas Saunders, Karl G. Csaky, Elvira Agron, Tiarnan D L Keenan, Emily Y. Chew, Barbara A. Blodi, Amitha Domalpally
10:00 AM-10:15 AM	Paper Session 205 Patient-Focused Advances in the Diagnosis and Prognosis of Ocular Inflammatory Disease	Ballroom A	<b>Presentation #1368</b> Impact of Socioeconomic Disadvantage on Clinical Outcomes of Inflammatory Eye Disease Patients Requiring Systemic Immunosuppression	<b>Melissa Trudung</b>  Abstract Author Block: *Melissa Trudung, Kyle Peterson, Laura Kopplin
3:00-4:45 PM	Poster Session 243 Adaptive Optics, Microscopy, MRI, Ultrasound, and Other Imaging Technologies	Hall A-E	<b>Poster #A0048</b> OCT Changes in Post-natal Monkey Eyes	<b>Alexander Katz</b>  Abstract Author Block: *Alexander Katz, Carol Rasmussen, Emma L. Mohr, Michele Schotzko, Nathan Diers, Peter M. Cueno, Jim Goulding, Elaina Razo, Karla Ausderau, Yijun Huang, James N. Ver Hoeve, Charlene B Y Kim, T Michael Nork
			<b>Poster #A0059</b> Longitudinal Tracking of Individual Cells in Retinal Pathologies with Quad Fusion Adaptive Optics	Khadijeh Masumnia-Bisheh  Abstract Author Block: *Khadijeh Masumnia-Bisheh,

			Scanning Laser Ophthalmoscopy (AOSLO)	Kimberly E. Stepien, Nickie Stangel, Jeremy Rogers
3:00-4:45 PM	Poster Session 252 Vitreoretinal Surgery and Retinal Detachment II	Hall A-E	<b>Poster #A0463</b> Adaptive Optics Imaging After Retinal Detachment Repair Reveals Photoreceptor Alterations Linked to Visual Dysfunction	<b>Jake Khoussine</b> Abstract Author Block: *Jake Khoussine, Jeremy Rogers, Nickie Stangel, Khadijeh Masumnia-Bisheh, Amr Sabbagh, Jonathan Chang, Kathleen Schildroth, Kimberly E. Stepien
3:00-4:45 PM	Poster Session 255 Retina: Physiology and Pharmacology	Hall A-E	<b>Poster #B0043</b> Identification, Structural and Functional Characterization of a Novel Cacnalf Mutation Associated with X-linked Recessive CSNB	Sanjai Kumar Pillala Abstract Author Block: *Sanjai Kumar Pillala, Pawan K. Shahi, Bikash Ranjan Pattnaik
3:00-4:45 PM	Poster Session 258 Preclinical Therapeutics	Hall A-E	<b>Poster #B0165</b> <b>A Gene-agnostic Treatment for Diseases Caused by Nonsense Mutation.</b>	<b>Bikash Pattnaik</b> Abstract Author Block: Bikash R. Pattnaik, Meha Kabra, Lionel Gissot, Divya Sinha, David M. Gamm, Christopher A. Ahern

<b>Tuesday, May 6, 2025</b>				
<b>Time</b>	<b>Format</b>	<b>Location</b>	<b>Presentation/Poster Title</b>	<b>Presenter/Author</b>
8:30-10:15 AM	Poster Session 314 Clinical Applications in OCT	Hall A-E	<b>Poster #A0061</b> Factors Associated with Photoreceptor Thickness in UK Biobank Participants With No or Mild Diabetic Retinopathy	<b>Kevin Schneider</b> Abstract Author Block: *Kevin Schneider, Kristen Staggers, Mozhdeh Bahrainian, Roomasa Channa
8:30-10:15 AM	Poster Session 320 Glaucoma: Aqueous Outflow Cell Biology	Hall A-E	<b>Poster #A0413</b> Role of the Extracellular Matrix in Regulating VE-Cadherin and Adherens Junctions in Aqueous Humor Outflow	<b>Colleen McDowell</b> Abstract Author Block: *Colleen M. McDowell, Timur Mavlyutov, Philip Mzyk, Kelsey Mathers
8:30-10:15 AM	Poster Session 321 Glaucoma: Fibrosis and Wound Healing	Hall A-E	<b>Poster #A0424</b> Role of Integrin $\alpha$ 4 and $\alpha$ 9 in the Development of Elevated IOP and Trabecular Meshwork Damage	<b>Tania Sharmin</b> Abstract Author Block: *Tania Sharmin, Colleen M. McDowell
8:30-10:15 AM	Poster Session 326 Retinal Metabolism	Hall A-E	<b>Poster #A0505</b> Measurement of Mitochondrial Respiration in Long-term Cultures of hPSC-RPE as a Proxy for Overall Cell Health	<b>Jason J Jo</b> Abstract Author Block: *Jason J. Jo, Divya Sinha, Kimberly Lauren Edwards, Rasa Valiauga, Cole Bacig, Gyda Beeson, Molly Wilson, Janis T. Eells, Craig Beeson, David M. Gamm
9:40-9:50 AM	Mini Symposium 301 AI Regulation and Implementation in Ophthalmology	255ABC	<b>Presentation #2670</b> Reference Standards for AMD Screening Algorithms	<b>Amitha Domalpally</b>

1:15-3:00 PM	Poster Session 344 AMD-3 (Imaging)	Hall A-E	<p><b>Poster#B0028</b></p> <p>Correlating Fundus Flavoprotein Fluorescence with Structural Changes in Geographic Atrophy</p>	<p><b>Britney Ashely Naolhu</b></p> <p>Abstract Author Block: *Britney Ashely Naolhu, Sairi Zhang, Jeong W. Pak, Rick Voland, Amitha Domalpally, Collin Rich, Mihai Mititelu</p>
			<p><b>Poster #B0029</b></p> <p>Ellipsoid Zone Integrity Index: A Novel OCT Biomarker in AMD</p>	<p><b>Bethany Erb</b></p> <p>Abstract Author Block: *Bethany Erb, Thomas Saunders, Elaine Botros, Anna-Maria Hass Sophia Small, Rachel E. Linderman, Rick Voland, Karl G. Csaky, Barbara A. Blodi, Amitha Domalpally</p>
			<p><b>Poster #B0033</b></p> <p>Comparison of Measurement Techniques for Photoreceptor Loss in Geographic Atrophy</p>	<p><b>Maria Schulz</b></p> <p>Abstract Author Block: *Maria Schulz, Sairi Zhang, Jeong W. Pak, Rick Voland, Mark Banghart, Barbara A. Blodi, Amitha Domalpally</p>
			<p><b>Poster #B0035</b></p> <p>Characterizing Intermediate AMD Biomarkers on OCT: Methods and Reproducibility</p>	<p><b>Jennifer Heathcote</b></p> <p>Abstract Author Block: *Jennifer Heathcote, Jordan Winkler, Jeong W. Pak, Rick Voland, Barbara A. Blodi, Amitha Domalpally</p>

			<p><b>Poster #B0040</b></p> <p>Multimodal Imaging Assessment of Risk Factors for Geographic Atrophy Progression</p>	<p><b>Thomas Saunders</b></p> <p>Abstract Author Block: *Thomas Saunders, Jeong W. Pak, Rick Voland, Karl G. Csaky, Barbara A. Blodi, Amitha Domalpally</p>
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**Wednesday, May 7, 2025**

Time	Format	Location	Presentation/Poster Title	Presenter/Author
10:15 AM-12:00 PM	Poster Session 415 AI in Retina II	Hall A-E	<b>Poster #A0192</b> Deep Learning-Based Quantification of GA Area on OCT Scans	<b>Rushni N Mankad</b>  Abstract Author Block: *Rushi N. Mankad, Madeline Pflasterer-Jennerjohn, Rachel E. Linderman, Robert Slater, Amitha Domalpally
10:15 AM-12:00 PM	Poster Session 417 New Gene and Drug Delivery Systems	Hall A-E	<b>Poster #A0282</b> Use of Microinjection to Enhance AAV Transduction Efficiency in Retinal Organoids	Yashdeep Phanse  Abstract Author Block: *Yashdeep Phanse, Kathy Vaccaro, Sreelaxmi Raghavendra, Elizabeth Hoepfner, Agustin Luz Madrigal, Praveen Susai Manickam, Faria Anzuman, Mai Xiong, Suzanne Litscher, Lindsey Jager, Kimberly Lauren Edwards, Mostafa Zamanian, David M. Gamm
10:15 AM-12:00PM	Poster Session 421 Expanding Disease Genotype and Phenotype	Hall A-E	<b>Poster #B0006</b> Identification of a Novel Genetic Variant Associated With Primary Acute Angle Closure (PACG) in Dogs.	<b>Gillian McLellan</b>  Abstract Author Block: *Gillian J. McLellan, Odalys Torne, Kazuya Oikawa, Julie Kiland, Ben Kragerud, Leandro Teixeira, Peter Muir
			<b>Poster #B0019</b> ADAMTSL1 Gene Variants Identified in Patients With Childhood Glaucoma	Terri Young  Abstract Author Block: *Terri L. Young, Kristina Whisenhunt, Sean Martin, Simone Finzi,



				Sarah Lamartina, Reza Maroofian, Fatemeh Suri, Stuart Tompson
2:00-3:45 PM	Poster Session 444  Diabetic Retinopathy: Medical	Hall A-E	<b>Poster #A0079</b>  Comparison of Lesion Annotation Across 7- Field and Ultrawide Field Imaging in Diabetic Retinopathy (COLA)	<b>Cole Bacig</b>  Abstract Author Block: *Cole Bacig, Nancy Barrett, Kristi L. Dohm, Amitha Domalpally, Barbara A. Blodi
			<b>Poster #A0090</b>  Diabetic Retinal Disease Characterization: Electronic Health Record Data Compared To Reading Center Grading Of Fundus Images	<b>Kristi L. Dohm</b>  Abstract Author Block: *Kristi L. Dohm, Mozhdeh Bahrainian, Nancy Barrett, Rick Volland, John Garrett, Jomol Mathew, Michael David Abramoff, Barbara A. Blodi, Amitha Domalpally, Roomasa Channa
2:00-3:45 PM	Poster Session 448  Glaucoma Neuroinflammation and Neurodegeneration  Moderator: Gillian McLellan	Hall A-E	<b>Poster #A0420</b>  Neurofilament Light Chain as a Biomarker of Neurodegeneration in Glaucoma	Kazuya Oikawa  Abstract Author Block: *Kazuya Oikawa, Grace Abigail Adams, Julie Kiland, Gillian J. McLellan
			<b>Poster #A0422</b>  Experimental Glaucoma Leads to Increases in Outer Retinal Layer Thickness Not Evident in Axotomy Damage	<b>Thomas Lavery</b>  Abstract Author Block: *Thomas Lavery, Carol Rasmussen, Alexander Katz, Charlene B Y Kim, James N. Ver Hoeve, David Piwnica-Worms, Xudong Qiu, Seth Gammon, T Michael Nork

			<b>Poster #A0431</b> Mapping Interactions Between Microglia and Retinal Ganglion Cells Before and After Optic Nerve Crush	<b>Lillie Bauman</b> Abstract Author Block: Lillie Bauman, Robert W. Nickells
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**Thursday, May 8, 2025**

Time	Format	Location	Presentation/Poster Title	Presenter/Author
8:00-9:45 AM	Poster Session 502 2D and 3D Stem Cell Disease Modeling	Hall A-E	<b>Poster #A0032</b> Characterizing the USH1/MYO7A Interactome in Human Retinal Organoids	<b>Celia Bisbach</b>  Abstract Author Block: *Celia Bisbach, Beth Capowski, Sreelaxmi Raghavendra, Divya Sinha, Yashdeep Phanse, Everett Higa, Leonardo Ruiz, Maria Alondra Fernandez Zepeda, Giovanni Hanstad, David M. Gamm
8:00-9:45 AM	Poster Session 505 Intraocular Lenses and Presbyopia	Hall A-E	<b>Poster #A0256</b> Duration of Hyaluronic Acid (HA)-induced Restoration of Accommodation Response in Presbyopic Monkeys	<b>Mary Ann Bernadette Croft</b>  Abstract Author Block: *Mary Ann Bernadette Croft, T Michael Nork, Jared McDonald, Alexander Katz, Paul L. Kaufman
8:00-9:45 AM	Poster Session 507 AI in Retina III	Hall A-E	<b>Poster #A0350</b> AI-based Measurement of GA Area for Screening in Clinical Trials	Mohammad Younis  Abstract Author Block: *Mohammed Younis, Robert Slater, Caleb Pacheco, Sairi Zhang, Rick Voland, Rachel E. Linderman, Roomasa Channa, Amitha Domalpally
			<b>Poster #A0357</b> Predicting Geographic Atrophy Risk Using Autofluorescence	<b>Robert Slater</b>  Abstract Author Block: *Robert Slater, Apoorva Safai, Madeline

			Imaging and Artificial Intelligence	Pflasterer-Jennerjohn, Jennifer Heathcote, Rachel E. Linderman, Pallavi Tiwari, Emily Y. Chew, Amitha Domalpally
8:00-9:45 AM	Poster Session 508 Posterior Segment Imaging and Vitreoretinal Interface Disease	Hall A-E	<b>Poster #A0373</b> Gold Standard vs. Ultrawide Field Imaging for Diabetic Retinopathy Severity: Results from YOSEMITE/RHINE Phase 3 Studies	<b>Amitha Domalpally</b> Abstract Author Block: *Amitha Domalpally, Yannan Tang, Kara Gibson, Arshad M. Khanani, Jeffrey Willis, Charles C. Wykoff, Lu Zhang, Zdenka Haskova
8:00-9:45 AM	Poster Session 517 Telemedicine, Health Service Delivery and Health Economic Studies	Hall A-E	<b>Poster #B0364</b> Factors Associated with Follow-up for In-person Eye Care Among Screen Positives in a Teleophthalmology Program at an Urban Federally Qualified Health Center	<b>Cinthya Maldonado</b> Abstract Author Block: *Cinthya Maldonado, Johnson Hoang, Kyle Peterson, Thomas Emmet, Maria Mora Pinzon, Jake Khoussine, Diana Martinez Garcia, Yohualli Anaya, Roomasa Channa, Yao Liu
11:45 AM-12:06 PM	Mini Symposium 533 Visual System Development	Ballroom J	<b>Presentation #5931</b> Functional Maturation of Photoreceptor and Circuits in the Primate Retina	<b>Raunak Sinha</b>
2:00-3:45 PM	Poster Session 555 Diabetic Retinopathy and	Hall A-E	<b>Poster #A0142</b> Mitochondrial Fission is Essential for Normal Aging of Rod	Purnima Gogoi Abstract Author Block: *Purnima Gogoi, Michael

	Retina/RPE Metabolism		Photoreceptor Cells and RPE Metabolism	Landowski, Sakae Ikeda, Akihiro Ikeda
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## **DOVS Committee Membership**

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