

Date	Mountain Time	Session	Location	Poster/Paper	Posterboard # / Presentation #	Authors	Title
On Demand					OD110	Justin Arnett, Fritz Gerald Paguiligan Kalaw, Ines Nagel, NEHAL NAILESH MEHTA, Nathan Scott, William R. Freeman	Selective Improvement in Retinal Area of Ultra-Widefield Funduscopy Images Using An Eyelid Speculum
On Demand					OD106	Kristine Y. Wang, Bitu Momenaei, Taku Wakabayashi, Emmanuel Chang, Eric Nudleman , Yoshihiro Yonekawa	Appropriateness and Readability of ChatGPT-4-Generated Responses for Retinopathy of Prematurity
On Demand					OD98	Shaden Yassin, An D. Le, Anna Heinke, William R. Freeman, Lingyun Cheng , Nguyen Truong, Dirk-Uwe G. Bartsch , Cheolhong An, Shyamanga Boroah	Using Artificial Intelligence to Predict Visual Function from Retinal Structure in Retinitis Pigmentosa
Saturday, May 3							
Saturday, May 3	8:00AM - 5:30PM MT	Glaucoma	251	Poster	PB0063	Jalil Jalili, Evan Walker, Vedant Joshi, Justin Huynh, Christopher Bowd , Akram Belghith, Michael Goldbaum , Massimo Fazio, Christopher Girkin , C. Gustavo De Moraes, Jeffery Liebmann, Sally Baxter, Robert Weinreb, Linda Zangwill, Mark Christopher	RETFound-LLaVA: A Combination of Specific-Domain and General-Purpose Foundation AI Models for Glaucoma Detection
Saturday, May 3	8:00AM - 5:30PM MT	New Technologies and Methods	251	Poster	PB00113	Weijia Fan, Fengyuanshan Xu, Roman Kuranov, Ronald Zambrano, Jacqueline Chen, Alisha Desai, Fabio Lavinsky, Jiahui Wu, Seung Lee, Alex Huang , Xiaorong Liu, Gadi Wollstein, Joel Schuman, Hao Zhang	Vis-OCT Explorer: An Open-source Software Package for Spectral Domain Visible Light OCT Reconstruction
Saturday, May 3	8:00AM - 5:30PM MT	Glaucoma	251	Poster	PB0064	Ruben Gonzalez, Evan Walker, Christopher Bowd , Akram Belghith, Michael Goldbaum , Massimo Fazio, Christopher Girkin , C. Gustavo De Moraes, Jeffery Liebmann, Robert Weinreb, Linda Zangwill, Mark Christopher , Zhichao Wu	Utility of a Retinal Image Foundation Model for Improving the Detection of Glaucomatous Visual Field Defects using Optical Coherence Tomography
Sunday, May 4							
Sunday, May 4	8:00AM - 9:45AM MT	Clinical Applications in OCT Angiography	Hall A-E	Poster	A0144	Jo-Hsuan Wu, Takashi Nishida, Sasan Moghimi , Evan Walker, Linda M. Zangwill, Robert Weinreb	African and European Individuals with POAG Progression Detection Using OCT and OCTA
Sunday, May 4	8:00AM - 9:45AM MT	Clinical Applications in OCT Angiography	Hall A-E	Poster	A0169	Justin Chen, Junghun Kweon, Zihang Yan, Weijia Fan, Alex S. Huang , Hao Zhang	Monitoring Retinal and Limbal Vascular Changes Induced by β -Blockers Using Visible-Light OCT
Sunday, May 4	8:00AM - 9:45AM MT	Vitreoretinal Surgery and Retinal Detachment I	Hall A-E	Poster	A0511	Maria Ludovica Ruggeri, Bani Antonio- Aguirre, Christopher Toomey , Mandeep S. Singh	Assessment of Intra-graft Neurovascular Function Following Autologous Retinal Transplantation in Macular Holes
Sunday, May 4	8:00AM - 9:45AM MT	Diabetic Retinopathy: Epidemiology, Clinical Practice and Innovations	Hall A-E	Poster	B0203	Nilofar Radgoudarzi, Sally Baxter , Kristen Harris Nwanyanwu, Bharanidharan Radha Saseendrakumar, Aaron Y. Lee	Risk Factors for Complex Vitrectomy in Proliferative Diabetic Retinopathy: A Distributed Learning Analysis
Sunday, May 4	8:00AM - 9:45AM MT	Glaucoma: Posterior Segment and Optic Nerve Imaging	Hall A-E	Poster	B0296	Michael Saheb Kashaf, Sasan Moghimi , Takashi Nishida, Nilofar Radgoudarzi, Yu X. Yong, Gopikasree Gunasegaran, Alireza Kamalipour, Linda M. Zangwill , Alexander Ka-Ngai Lam, Christopher Kai-Shun Leung, Robert Weinreb	Retinal Nerve Fiber Layer Optical Texture Analysis: The Association with Sectoral Visual Field Defects
Sunday, May 4	8:00AM - 9:45AM MT	Glaucoma: Posterior Segment and Optic Nerve Imaging	Hall A-E	Poster	B0300	Ghazaleh Soltani, Sasan Moghimi , Takashi Nishida, Elaine Tran, Christopher A. Girkin, Linda M. Zangwill, Robert Weinreb	The Association between Optic Nerve Head Prelaminar Schisis and Visual Field Progression in Glaucoma
Sunday, May 4	8:00AM - 9:45AM MT	Glaucoma: Posterior Segment and Optic Nerve Imaging	Hall A-E	Poster	B0301	Takashi Nishida, Sasan Moghimi , Yu X. Yong, Mohsen Adelpour, Alireza Kamalipour, Leo Meller, Ghazaleh Soltani, Linda M. Zangwill , Alexander Ka-Ngai Lam, Christopher Kai-Shun Leung, Robert Weinreb	Retinal Nerve Fiber Layer Optical Texture Analysis: The Association between Area and Angle with Visual Field Progression
Sunday, May 4	8:00AM - 9:45AM MT	Glaucoma: Applications of AI, Machine Learning, Large Language Models and Computational Science	Hall A-E	Poster	B0329	Benton Gabriel Chuter, Vedant Joshi, Shahin Hallaj, Evan Walker, Jeffrey M. Liebmann, Massimo Antonio Fazio, Christopher A. Girkin, Robert Weinreb, Mark Christopher, Linda M. Zangwill	A Multimodal Implementation of RETFound Using Optic Nerve Head Fundus Photographs and OCT Imaging for Glaucoma Detection

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Sunday, May 4	8:00AM - 9:45AM MT	Glaucoma: Applications of AI, Machine Learning, Large Language Models and Computational Science	Hall A-E	Poster	B0350	Mark Christopher, JALIL JALILI, Justin Huynh, Evan Walker, Benton Gabriel Chuter, Christopher Bowd , Anna Heinke, Akram Belghith, Michael Henry Goldbaum , Massimo Antonio Fazio, Christopher A. Girkin , C. Gustavo De Moraes, Jeffrey M. Liebmann, Sally Liu Baxter , Robert Weinreb , Linda M. Zangwill	Advancements in Glaucoma Detection through Fine-Tuning of Vision Language Models
Sunday, May 4	8:00AM - 9:45AM MT	Glaucoma: Applications of AI, Machine Learning, Large Language Models and Computational Science	Hall A-E	Poster	B0354	JALIL JALILI, Yashraj Gavhane, Evan Walker, Anna Heinke, Justin Huynh, Benton Gabriel Chuter, Christopher Bowd , Akram Belghith, Michael Henry Goldbaum , Massimo Antonio Fazio, Christopher A. Girkin , Gustavo De Moraes, Jeffrey M. Liebmann, Sally Baxter , Robert Weinreb , Linda M. Zangwill, Mark Christopher	Generating Clinical Descriptions from OCT in Glaucoma by Fine-Tuning a Multi-Modal Large Language Model
Sunday, May 4	8:00AM - 9:45AM MT	Glaucoma: Applications of AI, Machine Learning, Large Language Models and Computational Science	Hall A-E	Poster	B0357	Justin Huynh, JALIL JALILI, Evan Walker, Benton Gabriel Chuter, Christopher Bowd , Anna Heinke, Akram Belghith, Michael Henry Goldbaum , Massimo Antonio Fazio, Christopher A. Girkin , Gustavo De Moraes, Jeffrey M. Liebmann, Sally Liu Baxter , Robert Weinreb , Linda M. Zangwill, Mark Christopher	Visual Function Prediction Using Fine-Tuned Vision Language Models
Sunday, May 4	8:00AM - 9:45AM MT	Diabetic Retinopathy: Epidemiology, Clinical Practice and Innovations	Hall A-E	Poster	B0177	Iris Kim, Niloofar Radgoudarzi, Evan Chen, Jocelyn Liu, Kareem Moussa, Jessica G. Shantha, Edmund Tsui, Charlotte Gore, Sally Baxter , Travis Porco, Benjamin Arnold, Catherine Sun	Predicting Progression to Proliferative Diabetic Retinopathy in the University of California Health System
Sunday, May 4	1:00PM - 2:45PM MT	Glaucoma: Aqueous Outflow Physiology and Tonometry	Hall A-E	Poster	B0382	Raymond Fang, Pengpeng Zhang, Cheng Sun, Alex S. Huang , Hao Zhang	Imaging Aqueous Humor Outflow Segmental Responses to Pilocarpine Using Robotic Visible-light Optical Coherence Tomography
Sunday, May 4	1:00PM - 2:45PM MT	Glaucoma: Aqueous Outflow Physiology and Tonometry	Hall A-E	Poster	B0385	Xiaowei Zhang, Daniel Wanderer, Hao Zhang, Clemens Strohmaier, Robert Weinreb , Alex S. Huang	Correlation of Schlemm's Canal and Collector Channels between OCT-Angiography and Histology in Aqueous Angiography-defined High-Flow and Low-Flow regions
Sunday, May 4	1:00PM - 2:45PM MT	Glaucoma: Aqueous Outflow Physiology and Tonometry	Hall A-E	Poster	B0394	Clemens Strohmaier, Isabella Viehboeck, Anna Reisinger, Matthias Bolz, Kaweh Mansouri, Alex S. Huang , Martin Kallab	Aqueous Humor Outflow Improvement After Excimer Laser Trabeculostomy
Sunday, May 4	1:00PM - 2:45PM MT	Intraocular Pressure and Aqueous Humor Dynamics	Hall A-E	Poster	B0411	Collin Else, Kamalu Park, Savanna Pflugmacher, Xiaowei Zhang, Daniel Wanderer, Alex S. Huang , Jeffrey Esko, Christopher Toomey	Glycosaminoglycans Demonstrate Segmental Differences in Low-flow Versus High-flow Human Trabecular Meshwork
Sunday, May 4	1:00PM - 2:45PM MT	Intraocular Pressure and Aqueous Humor Dynamics	Hall A-E	Poster	B0413	Martin Kallab, Silvia Kaltenboeck, Sarah Hinterberger, Anna Reisinger, Matthias Bolz, Alex S. Huang , Clemens Strohmaier	Effect of Episcleral Tissue Integrity on Total Outflow Facility in an ex-vivo Porcine Model for Aqueous Humor Dynamics
Sunday, May 4	2:30PM - 2:45PM MT	Glaucoma: Posterior Segment and Optic Nerve Imaging	250	Paper	437	Alireza Kamalipour, Sasan Moghimi , Pooya Khosravi, Natchada Tansuebchueasai, Cristiana Vasile , Andrew S. Camp , Jeffrey E. Lee , Michael Saheb Kashaf, Mohsen Adelpour, Linda M. Zangwill, Alexander Lam, Christopher Kai-Shun Leung, Robert Weinreb	Artificial Intelligence Characterization of Structural and Functional Loss Patterns in Moderate to Advanced Glaucoma Using Retinal Nerve Fiber Layer Optical Texture Analysis
Sunday, May 4	3:15PM - 5:00PM MT	High Resolution Imaging and Clinical Applications	Hall A-E	Poster	A0117	Dirk-Uwe G. Bartsch , Ines Nagel, Anna Heinke, Nehal Mehta, William R. Freeman	Image Quality and Acquisition Speed in OCT and OCTA with the Variable Scan Speed Spectralis SHIFT
Sunday, May 4	3:15PM - 5:00PM MT	High Resolution Imaging and Clinical Applications	Hall A-E	Poster	A0141	Malvika Arya, Anna Heinke, Krzysztof Broniarek, Katarzyna Michalska-Malecka, Ines Nagel, NEHAL NAILESH MEHTA, Dirk-Uwe G. Bartsch , Lingyun Cheng, William R. Freeman	Human Expert Classification of Age-related Macular Degeneration Disease Activity with En-face Optical Coherence Tomography Angiography

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Sunday, May 4	3:15PM - 5:00PM MT	Glaucoma: Biomechanics and Mechanotransduction in the Posterior Segment and Optic Nerve	Hall A-E	Poster	B0305	Christopher A. Girkin, Evan Walker, Karla Murillo, Anuwat Jiravamsirikul, Linda M. Zangwill, Robert Weinreb, Jeffrey M. Liebmann, Massimo Antonio Fazio	Remodeling of the Lamina Cribrosa Over Time Predicts Functional Loss in Primary Open Angle Glaucoma Patients
Sunday, May 4	3:15PM - 5:00PM MT	Strabismus and Extraocular Muscles	Hall A-E	Poster	B0284	Danielle Betts, Ashley Liang, Megan Routzong, Marianna Alperin, Jolene Rudell	The Effect of Bupivacaine on Myosin Isoforms in Extraocular Muscles to Treat Strabismus
Sunday, May 4	3:15PM - 5:00PM MT	Strabismus and Extraocular Muscles	Hall A-E	Poster	B0285	Jolene Rudell, Ashley Liang, Megan Routzong, Marianna Alperin, Linda K. McLoon	Impact of a Pax7 Apert Syndrome Fgfr2 Point Mutation on Morphometric Characteristics of Extraocular Muscles
Sunday, May 4	3:15PM - 5:00PM MT	Disease Models Inform Biology	Hall A-E	Poster	B0471	Donita Garland, Manisha Dagar, Radha Ayyagari	Mechanisms of Patho-Biology in Mouse Models of L-ORD
Sunday, May 4	3:15PM - 5:00PM MT	Uveal Melanoma	Hall A-E	Poster	A0032	Gillian Folk, Shyamanga Borooah, Nehal Mehta	Comparing the Ability of Multimodal Language Models in Diagnosing and Managing Choroidal Nevus and Melanoma
Sunday, May 4	3:15PM - 5:00PM MT	Glaucoma: Biomechanics and Mechanotransduction in the Posterior Segment and Optic Nerve	Hall A-E	Poster	B0318	Massimo Antonio Fazio, Mary Anne Garner, Kendra Scarlett Reynolds Moreno, Mark E. Clark, Christopher A. Girkin	Optic Nerve Head Strain and Perfusion is Response to Acute IOP Elevation in Brain Dead Organ Donors
Monday, May 5							
Monday, May 5	8:30AM - 10:15AM MT	Diagnostic Tools and Discoveries	Hall A-E	Poster	B0561	Mohd Hussain Hussain Shah, Xiaodong Jiao, Shiwall Goyal, Sheikh Riazuddin, S Amer Riazuddin, Bushra Rauf, Muhammad Asif Naeem, Radha Ayyagari, James Fielding Hejtmancik	Whole Exome Sequencing Identifies Novel and Known Mutations in 15 Pakistani Families with Inherited Retinal Dystrophies
Monday, May 5	8:45AM - 9:00AM MT	Strabismus and Extraocular Muscles	Ballroom D	Paper	1382	Vaidehi Bhavaraju, Ashley Liang, Megan Routzong, Marianna Alperin, Jolene Rudell	Histomorphometric Analysis of Bupivacaine's Short Term Effects in Extraocular Muscles and its Clinical Implications as a Treatment for Strabismus
Monday, May 5	10:00AM - 10:15AM MT	Genetic Discovery, Diagnostics and Functional Follow Ups for Rare Eye Diseases	255D	Presentation	1347	Pooja Biswas, Jacque L. Duncan, Mandeep Singh, Santiago Villarreal, Hiroko Matsui, Matteo D'Antonio, Kelly Frazer, Radha Ayyagari	NEUROD4, a Novel Gene Associated with Early-Onset Recessive Retinal Degeneration (RD)
Monday, May 5	3:00PM - 4:45PM MT	Vision Impairment Epidemiology Across the Lifecourse	Hall A-E	Poster	A0142	Aya Motoyoshi, Yu Jiang, Sally Baxter, Linda M. Zangwill, Gerald McGwin, Cynthia Owsley, Cecilia S. Lee, Aaron Y. Lee	Lower Contrast Sensitivity and Lower Visual Acuity are Associated with Cognitive Impairment: Analyses of Artificial Intelligence Ready and Equitable Atlas for Diabetes Insights (AI-READI)
Monday, May 5	3:00PM - 4:45PM MT	Vitreoretinal Surgery and Retinal Detachment II	Hall A-E	Poster	A0436	NEHAL NAILESH MEHTA, An D. Le, Ines Nagel, Akshay Agnihotri, Anna Heinke, Lingyun Cheng, Dirk-Uwe G. Bartsch, Melanie Tran, Nguyen Truong, An Cheolhong, William R. Freeman	AI Versus Human Analysis for Detecting ILM Removal in ERM Surgery based on Post-operative OCT
Monday, May 5	3:00PM - 4:45PM MT	ROP Mechanisms and Preclinical Studies	Hall A-E	Poster	B0264	Tomoya Murakami, Lucija Pintaric, Leya Ledvin, Kevin Tenerelli, Richard Daneman, Eric Nudleman	Endothelial Cell Proliferation Contributes to Vascular Tortuosity in Oxygen-Induced Retinopathy
Monday, May 5	3:00PM - 4:45PM MT	Retinal Vascular Diseases (excluding diabetic retinopathy) and Retinopathy of Prematurity I	Hall A-E	Poster	B0308	Jimmy Chen, Andrew Lin, Kyle Marra, Luke Carmichael Valmadrid, Vivienne Li, Eric Nudleman	Automated Quantitative Assessment of Changes in Vascular Tortuosity after Treatment for Central Retinal Vein Occlusion
Monday, May 5	3:00PM - 4:45PM MT	Retina Miscellaneous II	Hall A-E	Poster	B0127	Shadi AlAshwal, Ines Nagel, Chantal Dysli, Fritz Gerald Paguigilan Kalaw, Shaden Yassin, Dirk-Uwe G. Bartsch, Akshay Agnihotri, William R. Freeman, Shyamanga Borooah	Characterization of Pentosan Polysulfate Sodium Maculopathy with Fluorescence Lifetime Imaging
Monday, May 5	3:15PM - 3:30PM MT	AMD antiVEGF II	255ABC	Paper	1858	Eric Nudleman, Pearse Andrew Keane, Nancy Hokekamp, Theodore Leng, Jakob Siedlecki, Florie Mar, Kara Gibson, Philippe Margaron, Tatiana Paulo, Christian Buehrer, David Tabano	Indirect Comparison of the Relative Effectiveness of Faricimab vs Aflibercept 8 mg in DME and nAMD
Tuesday, May 6							
Tuesday, May 6	8:30AM - 10:15AM MT	Neuro Ophthalmology	Hall A-E	Poster	B0375	Alex S. Huang, JALIL JALILI, Cambria O'Grady, Jihye Park, Robert Weinreb, Steven Laurie, Brandon Macias, Mark Christopher	Artificial Intelligence Predicts Development of Spaceflight-Associated Neuro-Ocular Syndrome (SANS) from Pre-flight Data
Tuesday, May 6	8:30AM - 10:15AM MT	Clinical Applications in OCT	Hall A-E	Poster	A0043	Melanie Tran, Evan Walker, Shyamanga Borooah	Structural and Functional Changes with Time in Pentosan Polysulfate Sodium Maculopathy

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Tuesday, May 6	8:30AM - 10:15AM MT	Corneal Endothelium II	Hall A-E	Poster	A0271	Bryanna J. Lee, Devansh Agarwal, John Huang, Takako Noguchi, Jong Hwa Jun, Jennifer Jianli Bu, Helen P. Makarenkova, Karl J. Wahlen, Peter X. Shaw, Natalie A. Afshari	Modeling Smoking-Induced Oxidative Stress through Hydroquinone Exposure in Human Corneal Endothelial Cells
Tuesday, May 6	8:30AM - 10:15AM MT	Corneal Endothelium II	Hall A-E	Poster	A0273	Takako Noguchi, Bryanna J. Lee, John Huang, Jong Hwa Jun, Helen P. Makarenkova, Peter Shaw, Natalie A. Afshari	FGF2 and FGF10 Protect Human Corneal Endothelial Cells from Hydroquinone Induced Oxidative Stress
Tuesday, May 6	8:30AM - 10:15AM MT	Ocular Surface, Adnexa, and Orbit	Hall A-E	Poster	A0192	Akshara R. Legala, Marissa K. Shoji, Suzan Sargsyan, Catherine Y. Liu, Bobby S. Korn, Don O. Kikkawa	Demographic Variations in Eyelid Measurements
Tuesday, May 6	8:30AM - 10:15AM MT	Uveitis Epidemiology and Clinical Characterization	Hall A-E	Poster	A0166	Nathan Shows, Negin Yavari, Dalia El Feky, Jia-Horung Hung, Aim-On Saengsirinavin, Azadeh Mobasserian, Amir Akhavanrezayat, Isabel Sendino, Xiaoyan Zhang, Ngoc Trong Tuong Than, Anh Ngoc Tram Tran, Bhargavi Vatte, Cigdem Yasar, Yue Bai, JINGLI GUO, Doran Spencer , Quan Dong Nguyen, Chris Or	Fedratinib Related Ocular Inflammatory Diseases in Patients with Myelofibrosis: An Analysis from TriNetX Database
Tuesday, May 6	8:30AM - 10:15AM MT	Glaucoma: Fibrosis and Wound Healing	Hall A-E	Poster	A0422	Maria Paula Avila, Devansh Agarwal, Wenjun Yan, Daniel Wanderer, Amit K. Patel, Alex S. Huang, Derek S. Welsbie	Exploring the Effects of Mitomycin C on the Mouse Conjunctiva Using Single-cell RNA Sequencing
Tuesday, May 6	8:30AM - 10:15AM MT	Retinal Metabolism	Hall A-E	Poster	A0520	Christopher Toomey , Savanna Pflugmacher, Kamalu Park, Jessica Pihl, Philip Gordts, Jeff Esko	Bruch's Membrane Heparan Sulfate Retains Lipoproteins in the Early Stages of Age-Related Macular Degeneration
Tuesday, May 6	8:30AM - 10:15AM MT	Retinitis Pigmentosa and IRD II	Hall A-E	Poster	B0173	Shiwali Goyal, Xiaodong Jiao, Pooja Biswas, Siying Lin, Samantha Malka, Mukhtar Ullah, Mathieu Quinodoz, S Amer Riazuddin, Gavin Arno, Muhammad Ansar, Carlo Rivolta, Radha Ayyagari , Andrew Webster, James Fielding Hejtmancik	Age Estimation of TMEM216 c.-69G>A and c.-69G>T Mutations in Pakistani and African Populations Affected by Non-Syndromic Retinitis Pigmentosa
Tuesday, May 6	8:30AM - 10:15AM MT	AMD 2 (anti-VEGF)	Hall A-E	Poster	B0092	Ines Nagel, Melanie Tran, Haochen Zhang, Lingyun Cheng , Anna Heinke, Akshay Agnihotri, NEHAL NAILESH MEHTA, Dirk-Uwe G. Bartsch , Fritz Gerald Paguiglan Kalaw, Arthur J. Mueller, William R. Freeman	Rescue of Highly-Resistant CNV Eyes Using 6 and 12 mg Faricimab; an OCT-angiographic and AI Analysis
Tuesday, May 6	8:30AM - 10:15AM MT	Retinitis Pigmentosa and IRD II	Hall A-E	Poster	B0192	Jesse Most, Evan Walker, Ines Nagel, Shyamanga Borooh	Using Artificial Intelligence to Assess Macular Edema in Retinitis Pigmentosa
Tuesday, May 6	8:45AM - 9:00AM MT	Progress in Molecular and Animal Model Imaging	Ballroom I	Paper	2741	Reid Wilson, Benjamin Sivyer, Eric Nudleman , Yifan Jian, Yali Jia, J. Peter Campbell	Characterization of the Mouse Oxygen-Induced Retinopathy Model with in vivo Visible-light Optical Coherence Tomography
Tuesday, May 6	9:00AM - 9:15AM MT	Glaucoma: Latest Trends and Innovation	Ballroom E	Paper	2714	Lauren Cruz, Tyler Garrett Kinzy, Osahon Asowata, Ayombami Alimi, Bryan Gorman, Andrea Waksmunski, Karen Mruk, Jacqueline Bartlett, Yuki Bradford, Chen Jiang, Rebecca Salowe, Christopher Halladay, Cari Nealon, Linda M. Zangwill, Radha Ayyagari, Robert Weinreb , Marylyn Ritchie, Shefali Setia Verma, Helene Choquet, Joan O'Brien, Dana Crawford, Michael A. Hauser, Sudha K. Iyengar, Neal Peachey, Jessica Cooke Bailey	Expanding Ancestral Diversity Reveals Novel Insights Into African Primary Open-Angle Glaucoma Genetics
Tuesday, May 6	9:00AM - 9:15AM MT	Multi-omics in Ocular Health and Disease	255E	Paper	2681	Ying Yuan, Pooja Biswas, Nathan R. Zemke, Kelsey Dang, Yue Wu, Matteo D'Antonio, Yang Xie, Qian Yang, Keyi Dong, Pik Ki Lau, Daofeng Li, Chad Seng, Weronika Bartosik, Justin Buchanan, Lin Lin, Ryan Lancione, Kangli Wang, Seoyeon Lee, Zane Gibbs, Ting Wang, Sebastian Preissl, Allen Wang, Radha Ayyagari , Bing Ren	Single-Cell Analysis of the Epigenome and 3D Chromatin Architecture in the Human Retina
Tuesday, May 6	9:30AM - 9:45AM MT	International Consortia for Genetic Disease Standards	Ballroom G	Paper	2730	Lori S. Sullivan, William Hankey, Kristy Lee, Andrew Webster, Jacque L. Duncan, Radha Ayyagari	Enhancing Variant Curation Protocols to Improve Clinical Genetic Testing for Recessive GUCY2D Retinopathies

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Tuesday, May 6	9:45AM - 10:00AM MT	International Consortia for Genetic Disease Standards	Ballroom G	Paper	2731	Kim Carlyle Worley, Ma'ayan Mero, William Hankey, Hafiz Muhammad Jafar Hussain, Sabika Firasat, Kristy Lee, Radha Ayyagari , Matthew Benson, Paul A. Sieving, Sarah Hull, Christina Zeitz, Richard Alan Lewis, Rui Chen	ClinGen X-linked Inherited Retinal Disease Variant Curation Expert Panel (XLIRD VCEP): Modified ACMG Criteria and Variant Curation Progress for RPGR, RS1, CHM, CACNA1F, and RP2
Tuesday, May 6	9:45AM - 10:00AM MT	Glaucoma: Neuroprotection and Neurorepair	250	Paper	2664	Derek S. Welsbie , Amit K. Patel, Cindy Berlinicke, Larry A. Wheeler, Donald J. Zack	Small Molecule Inhibitor of DLK and LZK Protects Retinal Ganglion Cells in a Nonhuman Primate Model of Glaucoma
Tuesday, May 6	1:15PM - 3:00PM MT	AMD 3 (Imaging)	Hall A-E	Poster	B0058	Anna Heinke, Haochen Zhang, Krzysztof Broniarek, Katarzyna Michalska-Malecka, Ines Nagel, Nehal Mehta, Dirk-Uwe G. Bartsch , Lingyun Cheng , Cheolhong An, Nguyen Truong, William R. Freeman	Artificial Intelligence for Cross-Instrument Fine-Grained Classification of AMD Disease Activity using en-face OCTA Images
Tuesday, May 6	1:15PM - 3:00PM MT	Glaucoma: Neuroprotection and Neurorepair	Hall A-E	Poster	A0430	Sean Christopher Chapman, Amit K. Patel, Maria Paula Avila, Cynthia Berlinicke, Sophie Chayoung Kim, Julian Bahramipour, Kathy Michelle Oraha, Donald J. Zack, Derek S. Welsbie	Amiloride Inhibits Sterile Alpha and Toll/Interleukin Receptor Motif-containing Protein 1 (SARM1) Activity and Delays Axon Degeneration
Tuesday, May 6	1:15PM - 3:00PM MT	Glaucoma: Neuroprotection and Neurorepair	Hall A-E	Poster	A0443	Madison Amanda Chew, Julian Bahramipour, Maria Paula Avila, Kathy Michelle Oraha, Sean Christopher Chapman, Amit K. Patel, Derek S. Welsbie	Genetically Encoded bioPROTACs to Inhibit Sterile Alpha and TIR Motif Containing 1 (SARM1)-mediated Axon Degeneration
Tuesday, May 6	3:30PM - 5:15PM MT	Lens Biology and Pathophysiology	Hall A-E	Poster	A0012	Alexander Lieu, Peter X. Shaw , John Huang, Natalie A. Afshari , Jong Hwa Jun	High Glucose Attenuation of Epithelial-Mesenchymal Transition and Apoptosis in Human Lens Epithelial Cells in Normoxic Conditions is Independent of NFkB Signaling
Tuesday, May 6	3:30PM - 5:15PM MT	Electronic Health Record and Big Data Sciences	Hall A-E	Poster	B0505	Jason Zhou, Fritz Gerald Paguiligan Kalaw, Bharanidharan Radha Saseendrakumar, Sally Liu Baxter , Don O. Kikkawa	Use of EHR to Extract Normative Eyelid Measurements (MRD1)
Tuesday, May 6	3:30PM - 5:15PM MT	Large Language Models in Ophthalmology	Hall A-E	Poster	B0481	Suzan Sargsyan, Jimmy Chen, David B. Granet	Comparative Analysis of Anthropic's Claude Large Language Model Response Quality to Patient's Ophthalmologic Questions Using Different Types of Prompt Engineering
Tuesday, May 6	3:30PM - 5:15PM MT	Large Language Models in Ophthalmology	Hall A-E	Poster	B0491	Naomi Wagner, Megan Soucy, Emily Place, Shyamanga Borooah	Accuracy and Clinical Utility of ChatGPT Interpretation of Inherited Retinal Disorder Genetic Results
Tuesday, May 6	3:30PM - 5:15PM MT	Photoreceptor Degeneration	Hall A-E	Poster	B0227	DaNae Woodard, Wansuh Jung-Aum, Christopher Hallock, Danielle Lazaro, Natalya K. Phillips, Radha Ayyagari	Evaluation of Retinal Phenotype in Mice Carrying the Heterozygous p.Gly208Asp Mutation in Prph2
Tuesday, May 6	4:40PM - 4:54PM MT	Charting the Course from Bench to Bedside: Lessons Learned, Common Pitfalls, and Regulatory Approval in Ophthalmic Drug and Device Development	250	Presentation	3617	Robert Weinreb	Revisiting Clinical Trial Endpoints in Glaucoma
Wednesday, May 7							
Wednesday, May 7	10:15AM - 12:00PM MT	Dry Eyes, Cornea, Cataract and Anterior Segment and Laser Refractive	Hall A-E	Poster	B0187	Manreet Brar, Shahin Hallaj, Sonali Bhanvadia, Linda M. Zangwill , Robert Weinreb , Sally Baxter	Associations between Dry Eyes and Home Environmental Factors: An Analysis of the AI-READI Dataset
Wednesday, May 7	10:15AM - 12:00PM MT	AI in Retina II	Hall A-E	Poster	A0189	Aneesh Swamy, Ines Nagel, Melanie Tran, Evan Walker, Jesse Most, Elena Flester, NEHAL NAILESH MEHTA, Shadi AlAshwal, William R. Freeman , Shyamanga Borooah	Evaluating the Diagnostic Accuracy of Multimodal Large Language Models in Macular Disease
Wednesday, May 7	10:15AM - 12:00PM MT	AI in Retina II	Hall A-E	Poster	A0181	Kyle Marra, Tomoya Murakami, Jimmy Chen, Edith Aguilar, Jacob Robinson, Richard Daneman, Martin Friedlander, Eric Nudleman	Automated Quantification of Vascular Tortuosity in Murine Models of Ischemic Retinopathy Using Artificial Intelligence
Wednesday, May 7	10:15AM - 12:00PM MT	Glaucoma: Big Data & Data Science	Hall A-E	Poster	B0317	Patrick Akarapimand, Shahin Hallaj, Robert Weinreb , Sally Liu Baxter	Associations Between Physical Activity and Glaucoma: Analysis of the National Institutes of Health All of Us Research Program

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Wednesday, May 7	10:15AM - 12:00PM MT	Expanding Disease Genotype and Phenotype	Hall A-E	Poster	B0020	Wadih M. Zein, Tamara Juvier Riesgo, Emily Place, Siying Lin, Riccardo Sangermano, Pooja Biswas, John Chiang, Hafiz Muhammad Azhar Baig, Abdur Rashid, Muhammad Iqbal, Claire C. Kim, Delphine Blain, Ehsan Ullah, Brian P. Brooks, Muhammad Ansar, Andrew Webster, Jamie M. Ellingford, Carlos Mendoza-Santiesteban, Kinga Maria Bujakowska, Laryssa Huryn, Bin Guan, Byron L. Lam, Radha Ayyagari	Refining the Phenotype of TMEM216 Nonsyndromic Retinitis Pigmentosa
Wednesday, May 7	2:00PM - 3:45PM MT	Neuroprotection, Blood Flow, Ischemia/Reperfusion, Hypoxia and Oxidative Stress	Hall A-E	Poster	A0467	Amit K. Patel, Maria Paula Avila, Cynthia Thai, Kathy Michelle Oraha, Nam Hoang, Vi Pham, Micaela Wu, Derek S. Welsbie	Inhibition of the DLK/LZK Signaling Pathway is Neuroprotective to Retinal Ganglion Cells in a Mouse Model of Leber's Hereditary Optic Neuropathy
Wednesday, May 7	3:00PM - 3:15PM MT	Glaucoma: Big Data & Data Science	250	Paper	4585	Kimberley Yu, Zhiwei Li, Sreenidhi Munimadugu, Carl Kesselman, Ryan Scott Shean, Alexander T. Hong, Tanner Frediani, Alan Tang, Nova Dea, Jose-Luis Ambite, Michael Pazzani, Kyle Bolo, Lauren Daskivich, Sophia Y. Wang, Michael V. Boland, Swarup Sai Swaminathan, Brian Craig Stagg, Aiyin Chen, Sally Liu Baxter , Benjamin Xu	Testing Computable Phenotypes of Moderate to Severe Glaucoma Based on Standardized Data Concepts
Thursday, May 8							
Thursday, May 8	8:00AM - 9:45AM MT	Ophthalmology Residency Recruitment, Training, and Workforce Professional Development	Hall A-E	Poster	B0403	Angel Bert Sambo, Leo Meller, Nathan Lau, Clarissa Camarena, Ghassan Akkad, Jennifer Jianli Bu, Timothy Sestak, Jeffrey E. Lee , Natalie A. Afshari , Sally Baxter , Nathan Scott	Author Characteristics and Citations of Open-Access and Subscription-Based Ophthalmology Journals
Thursday, May 8	8:00AM - 9:45AM MT	Dry Eye: Clinical Aspects I	Hall A-E	Poster	B0051	Maria Laura Gomez, Natalie A. Afshari , Tiffany Lee, Sarah Shacterman	Effect of a Novel Method of Intense Pulsed Light (IPL) Monotherapy Applied to Upper and Lower Lids on Inflammatory and Neuropathic Markers in Patients with Dry Eyes
Thursday, May 8	8:00AM - 9:45AM MT	Telemedicine, Health Service Delivery and Health Economic Studies	Hall A-E	Poster	B0394	Taiki Nishihara, Natalie A. Afshari	Comparative Cost-Effectiveness of Extended Depth of Focus and Trifocal IOLs in Cataract Surgery: A Markov Model Analysis
Thursday, May 8	8:00AM - 9:45AM MT	2D and 3D Stem Cell Disease Modeling	Hall A-E	Poster	A0033	Devansh Agarwal, Nathan Kemmerer, Sonia Rivero, Karl J. Wahlin	Targeted and Rapid Ablation of Human Retinal Ganglion Cells via Inducible Caspase 9
Thursday, May 8	8:00AM - 9:45AM MT	2D and 3D Stem Cell Disease Modeling	Hall A-E	Poster	A0078	Jennifer Hernandez, Gary Taing, Benjamin Bakall, Shyamanga Borooh	Using Human Induced Pluripotent Stem Cells to Understand the Pathophysiology Associated to the c.446C>G Variant in TIMP3
Thursday, May 8	8:25AM - 8:35AM MT	Implementation Science in Ophthalmology: Bridging Research and Practice	255ABC	Presentation	5261	Sally Liu Baxter	Integrating Telemedicine into Ophthalmology Clinics
Thursday, May 8	11:45AM - 1:30PM MT	Glaucoma: Tools & Advancements in Diagnosis, Monitoring, Telemedicine, and Clinical Decision Making	Hall A-E	Poster	B0293	Huiyuan Hou, Takashi Nishida, Evan Walker, Mary K. Durbin, Anya Guzman, Alireza Kamalipour, Pooya Khosravi, Natchada Tansuebchueasai, Robert Weinreb , Sasan Moghimi	Identifying Eyes at Risk of Developing Perimetric Glaucoma Using OCT-Based Risk Scores
Thursday, May 8	11:45AM - 1:30PM MT	Glaucoma: Tools & Advancements in Diagnosis, Monitoring, Telemedicine, and Clinical Decision Making	Hall A-E	Poster	B0302	Sonali Bhanvadia, Manreet Brar, Kiana Tavakoli, Daniela Vital, Alan Calvo-Gaytan, Brittany York, Camille Nebeker, Todd Coleman, Robert Weinreb , Sally Baxter	Assessing Usability and Patient Experience of Sensor Technology for Glaucoma Medication Adherence
Thursday, May 8	11:45AM - 1:30PM MT	Retina/RPE: New Drugs, Mechanisms of Action, and Toxicity	Hall A-E	Poster	A0156	Kristyn Huffman, Jennifer Hernandez, Sandrine Amudhan, Shyamanga Borooh	Investigating the Pathophysiology of Pentosan Polysulfate Sodium Toxicity Using Human iPSC-RPE
Thursday, May 8	11:45AM - 1:30PM MT	Retina/RPE: New Drugs, Mechanisms of Action, and Toxicity	Hall A-E	Poster	A0165	William R. Freeman	Strategies for Minimizing Early and Late Complications of the Port Delivery System

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Thursday, May 8	11:45AM - 1:30PM MT	Retina/RPE: New Drugs, Mechanisms of Action, and Toxicity	Hall A-E	Poster	A0182	Joel F. Grondak, Mia Sun, Stephanie L. Ha, Anthony Avina, Chloe K. Wong, Ella Jiyeon Lee, Anna Heinke, Carlo Galang, Ines Nagel, NEHAL NAILESH MEHTA, Akshay Agnihotri, Madalina Absi, Fritz Gerald Paguiligan Kalaw, Lingyun Cheng , Michael J. Sailor, William R. Freeman	Lipid-Coated Nanocarriers for the Delivery of Highly Modified VEGFA siRNA to the Retina
Thursday, May 8	2:10PM - 2:27PM MT	Retinal Resilience: Exploring Hormesis as a Therapeutic Pathway	255ABC	Presentation	6243	Derek S. Welsbie	Neuroprotection in Glaucoma