

PRESENTATION

POSTER PRESENTATION

DAY	TIME	AUTHOR BLOCK	TITLE / PRESENTATION	SESSION NUMBER	LOCATION	SPEAKER(S)
Saturday, April 22	10:35 a.m.	Maria Grant	Diabetic retinopathy: Moving the field forward / The Gut-Eye Axis	315	R02-R03	Maria Grant
Sunday, April 23	8 a.m.	*Kevin Graciano, Arthur DeCarlo, Massimo Fazio, Brian Samuels	Glaucoma: molecular, biochemical and biomechanical mechanisms / B0133: Intraocular Pressure Correlates with Increased c-Fos Immunoreactivity in the Thalamic Paraventricular Nucleus in a Rat Model	15		Kevin Graciano
Sunday, April 23	8 a.m.	*J Crawford Downs, Reza Razaghi, Seyed Mohammadali Rahmati, Christopher Girkin, Alireza Karimi	Glaucoma: molecular, biochemical and biomechanical mechanisms / B0137: Viscoelastic Biomechanical Modeling of the Human Optic Nerve Head	15		J Crawford C Downs
Sunday, April 23	8 a.m.	*Swetha Ravichandran, Shervonne Poleon, Lyne Racette	Glaucoma Epidemiology / B0182: Impact of psychometric measures on adherence patterns to ocular hypotensive therapy in patients with primary open-angle glaucoma	16		Swetha Ravichandran
Sunday, April 23	8 a.m.	*Sohaib Fasih-Ahmad, Ziyuan Wang, Zubin Mishra, Charles Vatanatham, Mark Clark, Christine Curcio, Cynthia Owsley, SriniVas Sadda, Zhihong Jewel Hu	AI in the retina using OCTA / C0130: Relationship between Delayed RMDA and the Ellipsoid and Interdigitation Zones in Age-related Macular Degeneration (AMD): ALSTAR2 baseline	22		Sohaib Fasih-Ahmad
Sunday, April 23	8 a.m.	*Benton Chuter, Justin Huynh, Mark Christopher, Ruben Gonzalez, Evan Walker, Sally Baxter, Akram Belghith, Christopher Bowd, Michael Goldbaum, Jeffrey Liebmman, Massimo Fazio, Christopher Girkin, Robert Weinreb, Linda Zangwill	Glaucoma Data Science / C0250: Automated Measurement of RNFL Thickness from OCT Scans Using a Deep Learning Segmentation Free Approach	24		Benton Chuter
Sunday, April 23	8 a.m.	*Sasan Moghimi, Golnoush Mahmoudinezhad, V. S. Raghu Parupudi, Vyshnavi S Krishan, Siddharth Shukla, Jiacheng Cheng, Siavash Beheshtaein, Kareem Latif, Takashi Nishida, Mark Christopher, Massimo Fazio, Jeffrey Liebmman, Christopher Girkin, Linda Zangwill, Nuno Vasconcelos, Robert Weinreb	Glaucoma Data Science / C0261: Prediction of visual field progression based on initial OCT structure measurements using Artificial Intelligence	24		Sasan Moghimi
Sunday, April 23	8 a.m.	*Mark Christopher, Ruben Gonzalez, Justin Huynh, Evan Walker, Bharanidharan Saseendrakumar, Christopher Bowd, Akram Belghith, Michael Goldbaum, Massimo Fazio, Christopher Girkin, C. Gustavo De Moraes, Jeffrey Liebmman, Robert Weinreb, Sally Baxter, Linda Zangwill	Glaucoma Data Science / C0262: Transformer-based Deep Learning Approach Predicts Glaucoma Surgical Intervention from OCT	24		Mark Christopher

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Sunday, April 23	8 a.m.	*Ruben Gonzalez, Justin Huynh, Evan Walker, Bharanidharan Saseendrakumar, Christopher Bowd, Akram Belghith, Michael Goldbaum, Massimo Fazio, Christopher Girkin, Gustavo De Moraes, Jeffrey Liebmann, Robert Weinreb, Sally Baxter, Linda Zangwill, Mark Christopher	Glaucoma Data Science / C0278: Predicting Surgical Interventions for Glaucoma with Clinically Available Data	24		Ruben Gonzalez
Sunday, April 23	8 p.m.	*Arthur DeCarlo, Dan Shan, Brian Samuels	B0114: Orexin A Expression in the Glaucomatous Tree Shrew Brain	15		Brian Samuels
Sunday, April 23	4 p.m.	*Ram Prasad, Jason Floyd, Yvonne Adu-Agyeiwaah, Bright Asare-Bediako, Sergio Li Calzi, Dibyendu Chakraborty, Angela Harbour, Aayush Rohella, Irina Pikuleva, Julia Busik, Qiuhong Li, Maria Grant	Diabetic Retinopathy Novel Mechanisms / LP-ACE2 attenuates diabetic visual impairment by improving gut barrier integrity and intestinal lymphatics in type 1 diabetes	56	R02-R03	Ram Prasad
Sunday, April 23	4:45 p.m.	*Brian Samuels	Tree Shrew Model of Glaucoma and RGC Replacement	331	La Nouvelle C	Brian Samuels
Sunday, April 23	4:45 p.m.	*Deepayan Kar, Giulia Corradetti, Mohymina Amjad, Thomas Swain, Mark Clark, Gerald McGwin, Cynthia Owsley, Kenneth Sloan, Srinivas Sadda, Christine A Curcio	AMD Imaging / Choriocapillaris flow impairment under the fovea is associated with delayed rod-mediated dark adaptation in the perifovea of eyes with early and intermediate age-related macular degeneration: ALSTAR2 baseline	54	La Nouvelle AB	Deepayan Kar
Sunday, April 23	4:45 p.m.	*Arthur J Sit, Christopher Gow, J Crawford Downs, Kjersten Anderson	Animal Models of Ophthalmic Disease / 24-Hour Telemetric IOP Monitoring in Rabbits	57	R04-R05	Arthur J Sit
Sunday, April 23	5:15 p.m.	*Kelvin Du, Alireza Kamalipour, Sasan Moghimi, Pooya Khosravi, Takashi Nishida, Cristiana Vasile, Kareem Latif, Jeffrey Liebmann, Massimo Fazio, Christopher Girkin, Christopher Bowd, Linda Zangwill, Tara Javidi, Robert Weinreb	Glaucoma Data Science / Artificial intelligence characterization of central visual field patterns in distinct glaucomatous optic disc phenotypes	61	255-257	Kelvin Du
Monday, April 24	11:30 a.m.	*Megan Collins, Bani Antonio-Aguirre, Afua Asare, Elise Ciner, Rachel Coulter, Dawn DeCarlo, Carolyn Drews-Botsch, Donna Fishman, E Eugenie Hartmann, Olivia Killeen, Jenay Yuen, Sandra Block	Pediatric Epidemiology / B0048: Association of sociodemographic characteristics with pediatric vision screening and eye care: an analysis of the National Survey of Children’s Health 2021	85		Megan E Collins

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Monday, April 24	11:30 a.m.	*Yvonne Adu-Agyeiwaah, Bright Asare-Bediako, Jason Floyd, Mariana DuPont, Cristiano Vieira, Ram Prasad, Sergio Li Calzi, Irina Pikuleva, Julia Busik, Maria Grant	Biochemical and Molecular Mechanisms of Diabetic Retinopathy / C0327: Oral alpha-cyclodextrin reverses cholesterol-crystal-induced retinal pathology in a rodent model of type 2 diabetes (T2D).	99		Yvonne Adu-Agyeiwaah
Monday, April 24	12:45 p.m.	*Christopher Girkin, Mary Anne Garner, Mark Clark, Meredith Hubbard, Udayakumar Karuppanan, Gianfranco Bianco, Massimo Fazio	Glaucoma Structure and Function Relationships / Mechanical deformation of the human optic nerve with manometric IOP elevation	76	R04-R05	Christopher Girkin
Monday, April 24	1 p.m.	*Yazen Shihab, Sergio Li Calzi, Yvonne Adu-Agyeiwaah, Cristiano Vieira, Michael Boulton, Carolina Rovarotto, Matt George, Dave Mann, Mervin Yoder, Maria Grant	Retinopathy - novel treatment approaches / Human iPSC derived CD34+ cells and endothelial colony-forming cells (ECFCs) correct diabetic retinopathy (DR) in a model of type 2 diabetes	75	R02-R03	Yazen Shihab
Monday, April 24	1:15 p.m.	*Massimo Fazio, Christopher Girkin	Glaucoma Structure and Function Relationships / B0311: An Imaging and Quantification Protocol for the Characterization of the Deep Tissue Layers in Glaucoma by Swept-Source OCT	117		Massimo Fazio
Monday, April 24	1:15 p.m.	*Dongfeng Cao, Bibek Adhikari, Jeffrey Messinger, Christine A Curcio	AMD: Cell Biology, Pathology and Pre-Clinical Studies / C0077: How do outer retinal cells contribute to subretinal drusenoid deposit (SDD) in age-related macular degeneration (AMD)? an ultrastructural and immunohistochemistry investigation	120		Dongfeng Cao
Tuesday, April 25	9:05 a.m.	*Christine A Curcio	RPE heterogeneity in health and disease / RPE molecular and cellular heterogeneity in normal and AMD eyes	334	R07-R08	Christine A Curcio
Tuesday, April 25	11:45 a.m.	*Christine A Curcio, Jeffrey Messinger, CHANDRAKUMAR Balaratnasingam, Randev Mendis, Daniela Ferrara, K. Bailey Freund, Andreas Berlin	Mediating inflammation / B0441: Histology of cells suggestive of inflammation in treated neovascular age-related macular degeneration (AMD), a clinicopathologic correlation	171		Christine A Curcio
Tuesday, April 25	11:45 a.m.	*Maximilian Lindell, Deepayan Kar, Yeon Jin Kim, Zachary Arsenault, Orin Packer, Ursula Schmidt-Erfurth, Mike Marsh, Dennis Dacey, Christine Curcio, Andreas Pollreisz	Retinal pigment epithelium / C0085: Deep learning assisted 3D ultrastructural reconstruction of human retinal pigment epithelium (RPE) nuclei reveals a structured pattern of nuclear pores	172		Maximilian Lindell
Tuesday, April 25	11:45 a.m.	*Rafael Grytz, Mustapha El Hamdaoui, Preston Fuchs, Mahmoud KhalafAllah, Mokshad Gaonkar, Brian Samuels	Myopia: Structural Changes from Retina to Sclera / IOP-Induced Peripapillary Tissue Thinning in Emmetropic and High Myopic Juvenile Tree Shrews	160	R09	Rafael Grytz
Tuesday, April 25	12:15 p.m.	*Mahmoud KhalafAllah, Mustapha El Hamdaoui, Preston Fuchs, Fred Nugen, Alexander Levy, Brian Samuels, Rafael Grytz	Myopia: Structural Changes from Retina to Sclera / Longitudinal Border Tissue Configuration Changes during Experimental High Myopia Development in Juvenile Tree Shrews	160	R09	Mahmoud KhalafAllah

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Tuesday, April 25	4 p.m.	*Mary Anne Garner, Ryan Strickland, Gianfranco Bianco, Massimo Fazio, Alecia Gross, Christopher Girkin	New Ideas in Glaucoma / Prolonged Unilateral IOP Elevation in the Human Eye Results in Regionally Specific Glial Reactivity in the Retina and Lamina Cribrosa	184	R09	Mary Anne Garner
Wednesday, April 26	10:30 a.m.	*Shambhavi Anshumali, Mariana DuPont, Jason Floyd, Kara Kichler, John Mason, Jason Crosson, Maria Grant	The Role of Infiltrating Immune Cells in Ocular Disease / B0185: Characterization of Circulating Immune Cell Subsets in Subjects with DR and DME	219		Shambhavi Anshumali
Wednesday, April 26	10:30 a.m.	*Seth Fortmann, Blake Frey, Robert Welner, Maria Grant	The Role of Infiltrating Immune Cells in Ocular Disease / B0204: Fixation Before Dissociation using a Deep Eutectic Solvent Preserves In Vivo Biology in Single-Cells	219		Seth Fortmann
Wednesday, April 26	2:15 p.m.	*Gianfranco Bianco, Massimo Fazio, Paul Gamlin, Christopher Girkin	Ocular Flow and Biomechanics / C0249: The effect of vitreous humor in attenuating IOP-transient-induced strain of the posterior sclera	256		Gianfranco Bianco
Thursday, April 27	8 a.m.	*Andreas Berlin, Mark Clark, Thomas Swain, Gerald McGwin, Cynthia Owsley, Jason Crosson, Kenneth Sloan, Christine A Curcio	Other technologies and developments / C0245: Does foveal pit morphology contribute to age-related macular degeneration (AMD)? tool development utilizing ALSTAR2 baseline imaging data	268		Andreas Berlin
Thursday, April 27	8 a.m.	*Kenneth Sloan, Andreas Berlin, Mark Clark, Thomas Swain, Gerald McGwin, Jason Crosson, Cynthia Owsley, Christine A Curcio	Other technologies and developments / C0261: Defining the macular xanthophyll pigment (MXP) distribution pattern by automating centration in dual wavelength autofluorescence(2WAF): ALSTAR2 baseline cohort	268		Kenneth Sloan
Thursday, April 27	8:56 a.m.	*Christine A Curcio	Aging and sex as risk factors across multiple eye diseases – Understanding the biological roles they play / Age-related Macular Degeneration (AMD): Understanding the biological contributions of Aging and Sex	307	Great Hall BC	Christine A Curcio
Thursday, April 27	10:30 a.m.	*Ayaka Fujihashi, Ishant Yadav, Kaitlin Burge, Om Patel, William Haynes, Ryan Zaniewski, Nicholas Van Wagoner, Maria Grant	Teaching, Research Publication / C0309: Ophthalmology Residency Program Director Survey on Pass/Fail USMLE Step 1 Scoring	291		Ayaka Fujihashi
Thursday, April 27	12 p.m.	*Thomas Swain, Mark Clark, Christine A Curcio, Cynthia Owsley, Gerald McGwin	Retina/RPE: Physiology, Pharmacology and Metabolism / Antidepressant medication use is associated with impaired rod-mediated visual functions in normal aging and early and intermediate AMD: ALSTAR2 baseline	272	Great Hall BC	Thomas Swain
Thursday, April 27	12:45 p.m.	*Ellen Antwi-Adjei, Thomas Swain, Lyne Racette, Lindsay Rhodes	Visual Fields and Psychophysics / C0218: Comparison of a portable perimeter with the Humphrey Field Analyzer in Telemedicine	303		Ellen Antwi-Adje