

CONTINUING MEDICAL EDUCATION SESSIONS

All Annual Meeting sessions certified as Continuing Medical Education (CME) and eligible for *AMA PRA Category 1 Credit™* are listed below with their associated faculty presenters. Presenters are listed in presentation order. For a complete list of all individuals involved with each research project, refer to the online planner or the mobile app.

The following Annual Meeting formats are not certified as Continuing Medical Education (CME) and are not eligible for *AMA PRA Category 1 Credit™*: ALCON/Keynote series, Award lectures, Posters, SiGs, and Special sessions.

Sunday, April 28: 8-10am

Session	Session title	Location
102	A window on the soul: How systemic disease manifests in the eye <i>Maya Koronyo-Hamaoui, Nicolas Cuenca, José E Capo-Aponte, Yang Sun, Colleen M Cebulla</i>	East Ballroom B
103	The potential and pitfalls of big data <i>Laura B Balzer, Michael F Chiang, Joshua D Stein, Christopher J Hammond, Anne L Coleman</i>	East Ballroom C

Sunday, April 28: 1-2:30pm

Session	Session title	Location
127	Low Vision Group - The effects of mesopic light levels on vision and functional activities <i>Aaron Johnson, Lauren Ayton, Cynthia Owsley, Bonnielin Swenor, Ava Bittner</i>	West 223/224

Sunday, April 28: 3-4:45pm

Session	Session title	Location
147	Uveal Melanoma <i>Prisca Bustamante, Matthew Field, Mohamed H Abdel-Rahman, Stephen S Phillips, John W Crabb, Niels J Brouwer, Stylianos Serghiou</i>	East 1
148	Retina <i>Husvinee Sundaramurthi, Nate Benner, Morven Cameron, Dorota L Stankowska, Hiroki Mieno, Kore Chan, Anmar Abdul-Rahman</i>	East 2/3
149	Emerging AMD Therapeutics <i>Daniel V Palanker, William R Freeman, Suruchi Bhardwaj Bhui, Nathan Steinle, Scott W Cousins, Francine F Behar-Cohen, Robert B Bhisitkul</i>	East 8&15
151	Myeloid and Innate Immunology of the Retina <i>Samantha Dando, Chen Yu, Elisabeth Andriessen, Sofia Theodoropoulou, Matt Rutar, Cristhian J Ildefonso, Siddharth Narendran</i>	East Ballroom A
152	New and emerging clinical trials endpoints – Minisymposium <i>Srinivas R Sadda, Jacque L Duncan, Ursula Schmidt-Erfurth, Emily Y Chew, Donald C Hood, David Huang, Richard B Rosen</i>	East Ballroom B
153	Omics and systems biology approaches for profiling ocular tissues in health and disease <i>Ameera Mungale, Timothy Cherry, Vinay Swamy, Dan P Murphy, Sanjoy K Bhattacharya, Inez Oh, Ilhan Erkin Acar</i>	East Ballroom C

Session	Session title	Location
154	Photoreceptors <i>Michael Tri Hoang Do, Takahisa Furukawa, Trevor D Lamb, Marta Zuzic, Ching-Kang Jason Chen, Wei Li, Niklas Domdei</i>	West 212-214
155	Cataract Surgery, Epidemiology and Clinical Outcomes <i>Rachel Bishop, Harrison Dermer, Luca Schwarzenbacher, Chirag Shah, Yann Bouremel</i>	West 217-219
156	Healthcare Delivery <i>Hursuong Vongsachang, Shicheng Jin, Preeti Gupta, Sharon Ann Bentley, Alyssa Marie Kretz, Danielle Altman, Olivia Killeen</i>	West 220
157	Amblyopia and Visual Plasticity <i>Bin Zhang, Kimberly Meier, Simon Grant, Eileen E Birch, Jingyun Wang</i>	West 221/222
158	Advanced Imaging of Retinal Structure and Function in Disease <i>Andrew M Huang, Ethan Bensinger, Fenghua Wang, Stephen A Burns, Nicole M Putnam, Bianca Leonard, Allen M Y Cheong</i>	West 223/224
160	Emerging gene-driven therapies for anterior segment disease – Minisymposium <i>Alexander V Ljubimov, Abbot F Clark, Audrey M Bernstein, Rajiv R Mohan, Robert M Lavker, Tara C B Moore</i>	Harbour Ballroom

Monday, April 29: 8:15-10am

Session	Session title	Location
202	Advances in Retinoblastoma and Radiation Retinopathy <i>Hardeep Pal Singh, Rajesh C Rao, Anthony B Daniels, Sameh Gaballah, Zhao Xun Feng, Antonia M Joussem, Brittany Powell</i>	East 1
203	Gene therapy and delivery <i>Brian C Gilger, Michael James Gilhooley, Robert E MacLaren, Ryan F Boyd, Andrea Korecki</i>	East 2/3
204	Miscellaneous Maculopathies <i>Phillip L Mueller, Martin Gliem, Simone Tzaridis, Emily Y Chew, Hendrik P Scholl, Winston Lee, E.H. Henrike Runhart</i>	East 8&15
205	AMD Pathobiology and New Models <i>Natalie Wagner, Sunghee Estelle Park, Amol Sura, Robert F Mullins, Venkata Ramana Murthy Chavali, Andrea Garcia Llorca, Sayan Ghosh</i>	East 11/12
206	Adaptive and Innate Immunity in Ocular Health and Disease <i>Holly Rose Chinnery, Sudha Neelam, De-Quan Li, Andrew W Taylor, Jessica Wei, Darren J Lee, Haihan Jiao</i>	East Ballroom A
207	AMD Imaging I <i>Claus von der Burchard, Ferdinand Georg Schlanitz, Antoine Rivail, Wolf-Dieter Vogl, Sebastian M Waldstein, Stuart Keel, Minsu Jang</i>	East Ballroom B
208	Frontiers in membrane dynamics and cellular communication: Impact on vision and disease mechanisms – Minisymposium <i>Vadim Y Arshavsky, Yoshikazu Imanishi, Kapil Bharti, Kirill A Martemyanov, Luminita I Paraoan, Abbot F Clark</i>	East Ballroom C
209	Corneal Cell and Molecular Biology <i>Justin Ma, Aurelie Dos Santos, Carla Sanchez Martinez, Mohammad Zuhair Mustafa, Han Peng, Tiago Andre da Silva Ramos, Trevor Williams</i>	West 211
210	Circadian rhythms and photoreceptors <i>Sara Patterson, Tiffany M Schmidt, Seunghoon Lee, Nairouz Farah, Norianne T Ingram, Shuo Zhang, Stuart C Mangel</i>	West 212-214

Session	Session title	Location
212	Impact of Visual Impairment <i>Dean A VanNasdale, Jose Javier Estevez, Charumathi Sabanayagam, Lisa Keay, Dandan Diane Zheng, Asad Farooq Durrani, John Paul Bader</i>	West 220
213	Systemic Disorders: Basic and Translational Studies <i>Aida Sanchez-Bretano, Venu Talla, Oliver W Gramlich, Linda K McLoon, Zia Chaudhuri, Peter van Wijngaarden</i>	West 221/222
216	Dry Eye I <i>Richard Zhang, Lixing W Reneker, Stephen C Pflugfelder, Ashley Bascom, Nai-Wen Fan, Xin He, Helen P Makarenkova</i>	Harbour Ballroom

Monday, April 29: 11:15am-1pm

Session	Session title	Location
226	Drug delivery, drug and gene delivery system <i>Baruch D Kuppermann, Sven Schnichels, Lingyun Cheng, Anthoula Arta, Anne Zebitz Zebitz Eriksen, Vanessa Yanez, Michelle E McClements</i>	East 2/3
227	Retinal Vascular Disease <i>Gwenola Drouglazet, Salam Bachour, Martin Michl, Hee Eun Lee, Maria João Vieira, Sana Idrees</i>	East 8&15
228	Retinal Bioenergetics and Metabolic Interactions <i>Mo Wang, Vera L Bonilha, Jianhai Du, Qitao Zhang, John D Ash, Luis James Knight, Eric Weh</i>	East 11/12
229	Translational immunology in AMD, uveitis and thyroid eye disease <i>Chung-Jung Chiu, Florian Sennlaub, Kathryn L Pepple, Jerry Chien-Chieh Huang, Jay Siak, Svenja Ploehn, Sijie Fang</i>	East Ballroom A
230	Diabetic Retinopathy Therapeutics <i>Chirag Jhaveri, Rubbia Afridi, David S Boyer, Diana V Do, Mark W Johnson, Andreas Stahl</i>	East Ballroom B
231	Molecular mechanisms of retinal function in health and disease <i>Philip Ruzycski, Theodore G Wensel, Jeremy M Sivak, Srinivas Rao Sripathi, Binxing Li, Thomas Ray, Katya Lobanova</i>	East Ballroom C
232	Ocular Surface Disease <i>Giulio Ferrari, Yoko Ogawa, Marlies Gijs, Sharon Dsouza, Carol Kaplan, Douglas Borchman, Eugene Osae</i>	West 211
233	Of mice and men: Comparing primate and rodent retina – Minisymposium <i>Ulrike Grunert, Yi-Rong Peng, Greg D Field, Mabelle T Pardue, Jan J Kremers, Jens Duebel</i>	West 212-214
234	Mendelian Genetics and Animal Models of Retinal Disorder <i>Gavin Arno, Nieneke Wesseling, Pooja Biswas, Kaoru Fujinami, Douglas Vollrath, Gemma Marfany, Ala Moshiri</i>	West 217-219
235	Quality of life and the patient experience <i>Stefan Nickels, Jamie N T Enoch, Konrad Pesudovs, Lee Jones, Vijaya Gothwal, Nicole Ann Carnt, Bamini Gopinath</i>	West 220
236	Strabismus and Nystagmus <i>Mary Whitman, Samuel Adade, Richard W Hertle, Jonathan M Holmes, Krista R Kelly, Yuxi Zheng</i>	West 221/222
237	Advanced Imaging of Retinal Structure and Function in Healthy Eyes <i>Rigmor C Baraas, Jason Porter, Jenny Lorén Reiniger, Khang T Huynh, Furu Zhang, Ramkumar Sabesan, Kazuhiro Kurokawa</i>	West 223/224
238	New Ideas in Glaucoma <i>Donald C Hood, Michael Sullivan-Mee, Mingguang He, Thanadet Chuangsuwanich, Rory Murphy, Tave van Zyl, Sri Meghana Konda</i>	ARVO Ballroom

Monday, April 29: 1:15-2:45pm

Session	Session title	Location
258	Multidisciplinary Ophthalmic Imaging Group - OCT advances in vascular and functional imaging <i>Ruikang K Wang, Hao F Zhang, Yali Jia, James G Fujimoto, Marinko V Sarunic, Michael Pircher</i>	East Ballroom B

Monday, April 29: 4-5:45pm

Session	Session title	Location
267	Aqueous humor dynamics and IOP <i>W Daniel Stamer, David L Swain, Michael H Elliott, Carol B Toris, Oleg Yarishkin, Ashok Sharma, Elfriede Friedmann</i>	East 2/3
268	Imaging the Posterior Segment-Clinical <i>Ian Han, Jennifer I Lim, Katie M Litts, Alison L Huckenpahler, Amir Sadeghipour, Imre Lengyel</i>	East 8&15
269	Emerging cell-based therapies to tackle retinal diseases – Minisymposium <i>David R Hyde, Susanna S Park, Amir H Kashani, Valeria Canto Soler, Rachael A Pearson</i>	East 11/12
272	Corneal surgery:non-refractive <i>Faraaz Khan, Andri K Riau, Steven A Greenstein, Pranita Sahay, Jennifer Rose-Nussbaumer, Sanjay V Patel, Klara Charlotte Borgardts</i>	West 211
273	Corneal Tissue Engineering and Regenerative Medicine <i>Yu Yoshinaga, James L Funderburgh, Sarah Tsurkan, Mengyuan Xie, Bruce Ksander, Vincent M Borderie, Miguel Gonzalez Andrades</i>	West 212-214
274	Lens Cell Biology <i>S Amer Riazuddin, M Joseph Costello, Yuki Sugiyama, Catherine Cheng, Vasanth Rao, Woo-Kuen Lo</i>	West 217-219
275	Visual Impairment and Multi-Morbidity <i>Jasmine Junge, Andrea Urqueta Alfaro, Aaron Johnson, Ruth M.A. Van Nispen, Ecosse Luc Lamoureux, Ken Kitayama</i>	West 221/222
276	Biomechanics <i>Rouzbah Amini, Harry A Quigley, Yanhui Ma, Tasneem Putliwala Sharma, Katie Lucy, Mark R Lesk, Soledad Aguilar Munoa</i>	ARVO Ballroom
277	Neuroprotection <i>Margaret McDougal Runner, Julia Oswald, Liang Li, Mojdeh Abbasi, Amit K Patel, Anitha Krishnan, Meredith S Gregory-Ksander</i>	Harbour Ballroom

Tuesday, April 30: 8:45-10:30am

Session	Session title	Location
311	Diabetic retinopathy <i>Jurgen Sergeys, Colin R Green, Heidrun L Deissler, Konstantin Petrukhin, Xavier Guillonneau, Cristiano Pedrozo Vieira, Katrin Lorenz</i>	East 2/3
312	Macular edema and neuroprotection-translational studies <i>Zhongxiao Wang, Allen C Clermont, Tea Soon Park, Xiaohong Nancy Chen, Ellen Townes-Anderson, Alejandra Daruich</i>	East 8&15
313	Microglia and Innate Immunity <i>Xuan Du, Lian Zhao, Yvette Wooff, Eleftherios I Paschalis, Oliver Hugh Bell, Monica L Vetter, Sheri Peterson</i>	East 11/12
315	Gene variants in major ocular diseases <i>Dror Sharon, Kristof Van Schil, Cecile Delettre Cribaillet, Adrian Dockery, Mubeen Khan, Paul N Bishop, Mineo Ozaki</i>	East Ballroom C

Session	Session title	Location
317	Laser Therapy <i>David S Friedman, Rick Trevino, Murray A Johnstone, Jessica Minjy Kang, Richard Chitedze, Tony Realini, Lucas Bonafede</i>	West 212-214
318	Glaucoma Genetics Development with advanced technology & large datasets <i>Hannah Curren, Omar García Rodríguez, Ayub Qassim, Shi Song Rong, Subhabrata Chakrabarti, Terri L Young, Wesley Goar</i>	West 217-219
319	Aging with Vision Loss: Understanding the aging consequences of visual impairment – Minisymposium <i>Heather Whitson, David J Lee, Ellen E Freeman, Ecosse Luc Lamoureux, Alan R Morse</i>	West 220
320	Clinical outcomes and visual quality with retinal prosthetic vision restoration – Minisymposium <i>Richard H Kramer, Yossi Mandel, Eli Peli, E.J. Chichilnisky, Avi Caspi, Gislin Dagnelie</i>	West 223/224
321	Neurodegeneration <i>Louis R Pasquale, Markus H Kuehn, Milica Margeta, Hangjing Wu, Melissa Cooper, Yaeram Jeong, Bailey Hannon</i>	ARVO Ballroom
322	Visual Fields, Psychophysics, and Electrophysiology <i>Mengyu Wang, Alessandro Rabiolo, Gian-Gabriel P Garcia, Jorryt Gerlof Tichelaar, David F Garway-Heath, Pete R Jones, Vickie Hoi Ying Wong</i>	Harbour Ballroom
Tuesday, April 30: 11:45am-1:30pm		
Session	Session title	Location
341	Update on endophthalmitis <i>Varsha M Rathi, Adriaan Heineken, Scott D Walter, Cecilia S Lee, Lindsay Chun, Diana Laura</i>	East 8&15
342	Retinal Angiogenesis and Related Mechanisms in Vascular Biology <i>Ruth B Caldwell, Michelle LeBlanc, Nader Sheibani, Guei-Sheung Liu, Da Long, Xi Lu, Lingli Zhou</i>	East 11/12
343	Innate immune memory and the eye – Minisymposium <i>Homayon Ghiasi, Martine J Jager, Andrew W Taylor, Wai T Wong, Holly Lallman Rosenzweig</i>	East Ballroom A
344	AMD Translational studies <i>Jeremy Lavine, Santiago Delgado-Tirado, Yingbin Fu, Dimitra Skondra MD, PhD, Sook Hyun Chung, Céline Koster, Timothy W Olsen</i>	East Ballroom B
345	Highlights of OCT angiography <i>Oscar Carrasco-Zevallos, Qisheng You, Minhaj Nur Alam, Qinqin Zhang, Huiyuan Hou, Giovanni Gregori, Zihan Sun</i>	East Ballroom C
346	Lacrimal gland biology in homeostasis, disease, and repair – Minisymposium <i>Darlene A Dartt, Kazuo Tsubota, Austin K Mircheff, Sarah F Hamm-Alvarez, Masatoshi Hirayama, Helen P Makarenkova</i>	West 211
347	Unresolved issues in myopia – Minisymposium <i>Frank Schaeffel, Earl L Smith, David Troilo, Daniel Ian Flitcroft, William K Stell, Christine Frances Wildsoet, Ian George Morgan, Pei-Chang Wu, Debora L Nickla, Kathryn Saunders</i>	West 212-214
348	Lens Development <i>Ales Cvekl, Rupalatha Maddala, Sandeep Aryal, Stephanie Padula, Anthony Sallese, Timothy F Plageman</i>	West 217-219
349	Visual Training and Rehabilitation <i>Natalie N Stepien-Bernabe, Rajkumar Nallour Raveendran, William H Seiple, Ahmed M Sayed, Zahide Pamir, Meghan J DeBenedictis</i>	West 221/222

Tuesday, April 30: 2:45-4:30pm

Session	Session title	Location
368	Retinal Development <i>Bernadett Bosze, Andrea S Viczian, Nicolas Lonfat, Clayton Santiago, Masaya Fukushima, Kayla Titialii, Robert Mackin</i>	East 8&15
369	RPE Biology in Health and Disease <i>Yini Wang, Goldis Malek, Thomas Ach, Anna G Figueroa, Lyndsay L Leach, Alyson Wolk, Kevin Eade</i>	East 11/12
370	Uveitis clinical epidemiology and therapeutics <i>Peizeng Yang, John H Kempen, Victor Llorens, Edmund Tsui, Muhammad Hassan, Glenn J Jaffe, Alessandro Invernizzi</i>	East Ballroom A
372	Retinal degeneration: molecular disease mechanisms <i>Weiyong Shen, Chi-Hsiu Liu, Zubair Ahmed, Alexander M Dizhoor, Valentina Cipriani, Liu Yang, Yuri V Sergeev</i>	East Ballroom C
373	Corneal endothelium and Fuchs corneal dystrophy <i>Wenlin Zhang, Marianne Fritz, Viridiana Kocaba, Keith H Baratz, Risako Nakagawa, Genta Nakayama, Vinod V Mootha</i>	West 211
374	Ganglion cells and beyond <i>Megan Lee Zipperer, Molis Yunzab, Vineeth Raghuram, Tyler Godat, Peter B Detwiler, Paul R Martin, Ming-fai Fong</i>	West 212-214
375	Contact lens <i>Simin Masoudi, W Gregory Sawyer, Gabriela Dieckmann, Angela Pitenis, Emiliano Teran, Ananya Datta, Katrina L Schmid</i>	West 217-219
376	Myopia: Behavior and interventions <i>Jeremy A Guggenheim, Matthew Boswell, Ahmed F Shakarchi, Longbo Wen, Han Yu Zhang, Lap Ki Alex Ng</i>	West 220
377	Mechanisms and biomechanics of traumatic retinal hemorrhage in children – Minisymposium <i>Donny W Suh, Joanne N Wood, Gil Binenbaum, Alex V Levin, Donny W Suh, Brittany Coats</i>	West 221/222
378	Vision assessment and modeling in health, and with impairment <i>Angela M Brown, Katarzyna Komar, Zhong-Lin Lu, MiYoung Kwon, Gislin Dagnelie, Eli Peli, Steven Savage</i>	West 223/224
379	Clinical Studies <i>Jessica V Jasien, Tanuj Dada, C Gustavo De Moraes, Jibrán Mohamed-Noriega, Brian McMillan, Joanne C Wen, Yvonne M Buys</i>	ARVO Ballroom
380	Structure-Function Relationships <i>Vahid Mohammadzadeh, Henry Nicholas Marshall, Giovanni Montesano, Ou Tan, Mohammad Norouzfard, Ji Won Bang, Raymond Najjar</i>	Harbour Ballroom

Wednesday, May 1: 8:15-10am

Session	Session title	Location
401	P2X7 receptor: One target for inflammatory responses in different ocular diseases – Minisymposium <i>Julie Sanderson, Claire H Mitchell, Erica L Fletcher, Claudio Bucolo, Vickery E Trinkaus-Randall, Darlene A Dartt</i>	East 2/3
402	Retinal Degeneration <i>Wei-Chieh Jerry Chiang, Hongwei Ma, Jingyu Yao, Rui Chen, Ayse Mine Genc, Mao Shengru, Brittni A Scruggs</i>	East 8&15
403	Repurposing drugs for the treatment of retinal diseases – Minisymposium <i>Breandan N Kennedy, Nawajes A Mandal, Aparna Lakkaraju, Benjamin J Kim, Alfred S Lewin, Brian S McKay</i>	East 11/12

Session	Session title	Location
405	Gene editing & new cell-based and animal models for ocular disease <i>Koji M Nishiguchi, Fan Li, Uwe Wolfrum, Manel Llado Santaularia, Maureen A McCall, Ivana Trapani, Alecia K Gross</i>	East Ballroom C
406	Corneal imaging and topography <i>Janelle Tong, Cristina Canavesi, Elias Pavlatos, Osama Ibrahim, Kiran Kumar Vupparaboina, Alessia Colonna, Amira M Eltony</i>	West 211
407	ERG: Advances, Disease and Injury <i>Gabriel Peinado, Mirella Telles Salgueiro Barboni, Rikard Frederiksen, Melanie R Lalonde, James D Akula, Fatima Abbas, Anna Brouwer</i>	West 212- 214
408	GWAS & Beyond: Epigenetics and Functional Characterization <i>Anand Swaroop, Louise Frances Porter, Laura Lorés de Motta, Alison J Hardcastle, Hannah Webber, Nicholas Tolman, Ayellet Segre</i>	West 217- 219
409	Epidemiology of Corneal Disease <i>Qinqin Liu, Vikram Paranjpe, Meraf Amde Wolle, Chris Bradley, Nakul Shekhawat</i>	West 220
410	Visual Impairment- Impact on Driving and Mobility <i>Garrett Swan, Joanne M Wood, Kierstyn Napier-Dovorany, Sagar Chapagain, Ursula White, Joseph Da</i>	West 221/222
411	Refraction, Biometry, and Myopia <i>Damien Gatinel, Victor Rodriguez-Lopez, Lene A Hagen, James A Kuchenbecker, Yifei Wu, Andrew Carkeet, Ashutosh Jnawali</i>	West 223/224
412	Ocular Blood Flow <i>Lutz E Pillunat, Ryuna Chang, Georgios Lazaridis, Tailoi Chan-Ling, Bryn Brazile, Jeremiah Kah Heng Lim, Lorenzo Sala</i>	ARVO Ballroom

Wednesday, May 1: 10:15am-12pm

Session	Session title	Location
432	Advanced imaging technologies <i>Seung Woo Hong, Mathieu KUNZI, Danielle J Harper, Hao F Zhang, Kamal Dhakal, Maximilian Pawloff, Kevin C Chan</i>	East 1
433	Blood Flow <i>Ronald H Silverman, Antonio Longo, Leopold Schmetterer, Leo Puyo, Andres Guevara-Torres, Breanna Tracey</i>	East 2/3
434	Retinopathy of Prematurity <i>Sherina Thomas, Siva Balasubramanian, Xi Chen, Tianyu Liu, Sang Jin Kim, Rene Choi, Kellyn N Smith</i>	East 8&15
435	Stem Cells and Organoids <i>Jiansu Chen, Kevin Gregory-Evans, Heike Kroeger, Ruchira Singh, Brian G Ballios, Kirstin Brooke VanderWall, Donald J Zack</i>	East 11/12
436	Precision through measurement: Biomarkers in health and disease – Minisymposium <i>Sarah E Coupland, Darragh Duffy, Pearse Andrew Keane, Russell Foster</i>	East Ballroom A
437	Diabetic Retinopathy-Screening and Clinical Imaging <i>Siamak Shokrollahi, Paolo Sandico Silva, Julia Hafner, Thomas S Hwang, Jay M Stewart, Bianca S Gerendas, Felicia Widyaputri</i>	East Ballroom B
438	Corneal biomechanics, keratoconus and crosslinking <i>Elias Flockerzi, Jennifer J Ling, Cynthia J Roberts, Brecken Blackburn, Ananya Goyal, Dimitrios Karamichos, Yutao Liu</i>	West 211
439	Inner Retinal Function <i>Rachel Care, Steven H DeVries, Antonio F Ambrosio, Nazarul Hasan, Chase B Hellmer, Santhosh Sethuramanujam, Rong-Shan Yan</i>	West 212- 214

Session	Session title	Location
440	Lens Biochemistry <i>Justin Parreno, Viviana M Berthoud, Jie Liu, Kulandaiappan Varadaraj, Kevin L Schey, Kirsten J Lampi</i>	West 217-219
441	Retinal disease screening and risk factors <i>Stine Byberg, Soufiane Ajana, Carol Yim-lui Cheung, Spencer D Fuller, Simon P Harding, Marion Ronit Munk, Benedicte MJ Merle</i>	West 220
442	Optic Neuropathy <i>Steven Roth, Patrick Yu-Wai-Man, Farzad Pakdel, Steven Laurie, Brandon Macias, Tonia S Rex</i>	West 221/222
444	Imaging <i>Hongli Yang, Laura P Pardon, Haogang Zhu, Maria V Castanos, Brad Fortune, Max Colbert, Kai Gao</i>	ARVO Ballroom
445	Corneal Epithelium in Health and Disease <i>Chidambaranathan Gowri Priya, Adam Poe, Justin Courson, Vickery E Trinkaus-Randall, Nick Di Girolamo, David Myung, Alison M McDermott</i>	Harbour Ballroom

Wednesday, May 1: 12:15-1:45pm

Session	Session title	Location
462	Genetics Group - Spotlight on retinal ciliopathy from genetics to mechanism <i>Ronald Roepman, Erica Davis, Robert S Molday, Anand Swaroop</i>	East Ballroom B
465	How do I tell m(e)y(e) story? - Why effective communication is needed now more than ever to increase research funding <i>Lauren N Ayton, Gadi Wollstein, Stacy Pagos Haller, Maria B Grant, Hosam Ibrahim-Elzembely</i>	West 212-214
468	Overcoming the challenges of international collaboration in ocular research <i>Rupesh Vijay Agrawal, Carmen Ayuso, Richard W J Lee, Cristos Ifantides</i>	West 221/222
469	Ethical challenges and solutions for CRISPR treatment in human eye disorders <i>Budd Tucker, Stephen H Tsang, Tara C B Moore, Peter A Campochiaro</i>	West 223/224

Wednesday, May 1: 3-4:45pm

Session	Session title	Location
472	Retinitis Pigmentosa-Clinical <i>Michalis Georgiou, Moreno Menghini, Katharina G Foote, Kirk Stephenson, Ahmed M Hagag, Adam M Dubis, Tomas S Aleman</i>	East 8&15
473	Neuroprotection <i>Ben Mead, Sean K Wang, Kimberly A Wong, Ayse Sahaboglu, Thomas Wubben, Jia Xie, Dragana Trifunovic</i>	East 11/12
474	Ocular surface infection and inflammation <i>Sandamali Amarasingha Ekanayaka, Ashley Behrens, Mohammad Sharifian Gh, Stephanie Wan, Shunbin Xu, David J Evans, Jaya Rajaiya</i>	East Ballroom A
475	AMD clinical trials <i>Atsuro Uchida, Srinivas R Sadda, Jennifer Joan Arnold, Haley D'Souza, David Callanan, Derek Kunitomo, Rishi P Singh</i>	East Ballroom B
476	Advanced therapies for ocular disease <i>Harry Otway Orlans, Alaknanda Mishra, Daniel Grigsby, Michael Berry, Patrizia Tornabene, Karina E Guziewicz, Keiko Miyadera</i>	East Ballroom C
477	Dry eye clinical <i>Mario Joseph Rojas, Abraham Solomon, Leslie Small, Cameron K Postnikoff, John D Sheppard, Pedram Hamrah, Marko Oydanich</i>	West 211

Session	Session title	Location
478	Trabecular Meshwork and Ciliary Body <i>Terete Borras, David Krizaj, Krishnakumar Kizhatil, Wei Zhu, C Ross Ethier, Jacques Alexander Bertrand, Gulab Zode</i>	West 212-214
479	Physiological biochemistry of the lens – Minisymposium <i>Paul J Donaldson, Stephen Barnes, Julie C Lim, Miduturu Srinivas, Xiaohua Gong</i>	West 217-219
480	Genetic Epidemiology <i>Ching-Yu Cheng, Robert Wojciechowski, Pirro G Hysi, Denis Plotnikov, Patrice Marie Hicks, Katie Williams, Mark James Simcoe</i>	West 220
481	Imaging in Neuro-ophthalmic Disorders <i>Heather Moss, Bill Morgan, Frank A Proudlock, Jui-Kai Wang, Zhanhan Tu, Aleid van de Kreeke</i>	West 221/222
482	The choroid in ocular physiology, pathology and myopia <i>Audra M. A. Shadforth, Falk Schroedl, Hosein Hoseini-Yazdi, Jody A Summers, Christin Hanke-Gogokhia, Xiao Yang, Sang A Kim</i>	West 223/224
483	Surgery and Wound Healing <i>Cynthia Yu-Wai-Man, Ali Salimi, Giacinto Triolo, Chen Xin, Pouya Alaghband, Hari Jayaram, Yingna Liu</i>	ARVO Ballroom
484	Corneal Stroma Wound Healing and Repair <i>Tina B McKay, Hon Shing Ong, Rajiv R Mohan, Steven E Wilson, Edgar M Espana, Paola Bargagna-Mohan, Paramananda Saikia</i>	Harbour Ballroom

Thursday, May 2: 8-10am

Session	Session title	Location
501	The gut-eye axis: Emerging roles of the microbiome in ocular immunity and diseases <i>John Bienenstock, Rachel R Caspi, Mihaela G Gadjeva, Allen Taylor, Maria B Grant</i>	West 212-214
502	The single cell revolution: Novel insights and applications for single cell RNA sequencing in eye research <i>Donald J Zack, Seth Blackshaw, Enrique J Rodriguez-Boulan, Marie E Burns, Daniel R Saban, Ido Amit</i>	West 217-219

Thursday, May 2: 10:15am-12pm

Session	Session title	Location
528	Mechanistic analysis of ocular morphogenesis, growth and disease <i>Friedrich P Paulsen, Jiali Ru, Katie L Wagner, Sophie Lemmens, MAI SHUYI, Steven L Bernstein, Meysam Yazdankhah</i>	East 1
530	Advances in Retinal Gene Therapy and Stem Cells <i>Qin Wan, Ebrahim Aboualizadeh, Jordi Mones, Huber Vasconcelos Junior, Andrew Chen, Rachel M Huckfeldt, Eyal Banin</i>	East 8&15
531	Biology of Retinal Neurons <i>Shyam S Chaurasia, Géraldine Millet Puel, Robert J Johnston, Joseph Fogerty, Jakub Famulski, Joel B Miesfeld, Reyna I Martinez-De Luna</i>	East 11/12
532	Ocular microbiology and vaccines <i>Md Huzzatul Mursalin, Abby Kroken, Robert M Q Shanks, Kati Tormanen, Derek J Royer, Jacob Beaver, Daniel J Carr</i>	East Ballroom A
533	Retinal Surgery and PVR <i>Annabel von Studnitz, Bing Liu, Joseph Arboleda-Velasquez, Hiroki Kaneko, Edward Casswell, Irina De la Huerta, Naryan Singh Sabherwal</i>	East Ballroom B

Session	Session title	Location
534	Biochemistry and molecular biology of diabetic retinopathy <i>Todd McLaughlin, yan shao, Michael D Dennis, Ward Fickweiler, Priyamvada M Pitale, Mandy Losiewicz, Jose Manuel Romero del Hombre</i>	East Ballroom C
536	Visual Diseases and Protection <i>Eric B Miller, Zhuo-Hua Pan, Rachael S Allen, Yvonne Ou, Crystal Sigulinsky, Asia Cahill, Christian Felix</i>	West 212- 214
537	Posterior Capsular Opacification <i>Linda Musil, Daisy Shu, Mihyun Nam, Samuel Novo, Janice L Walker, Melinda K Duncan</i>	West 217- 219
541	Pharmacological Interventions and Cellular Interventions <i>Andras M Komaromy, Ajay Kumar, Joseph Hanna, Pinkal D Patel, Ian F Pitha, Yuan Lei, MinHee Kim Ko</i>	ARVO Ballroom

Thursday, May 2: 12:15-1:45pm

560	Addressing global blindness through international research collaborations – Next frontier for 2020 <i>Gyan "John" Prakash, Janey L Wiggs, Pamela C Sieving, Takeshi Iwata, Paul N Baird, Calvin C P Pang, Sudha K Iyengar, Sinnakaruppan Mathavan, Sundaram Natarajan</i>	West 221/222
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