Femtosecond laser based small incision lenticule extraction for moderate and high myopia

Hjortdal, Jesper Østergaard; Asp, Sven; Ivarsen, Anders; Vestergaard, Anders Højslet

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<td>506 Innovative Approaches to Retinal Imaging [VI, MOI, RE] #5561-5560</td>
<td>537 New Directions for Bifocality, Multifocality and Restoration of Accommodation [VI] #6328-6334</td>
<td>564 Myopia IV: Clinics [AP] #6920-6926</td>
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### Thursday, May 10 – Posters

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<td>516 Diabetic Retinopathy Epidemiology [CL]</td>
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<td>521 Stem Cells In Vivo and In Vitro: Fates and Functional Outcomes [RC, NT]</td>
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<td>523 Corneal Endothelium [CO]</td>
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<td>527 Cornea/Anterior Segment Infection and Inflammation II [IM, CO]</td>
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<td>528 Anti-Infectives and Ocular Disease [IM, CO,RE,RC,BI]</td>
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### Session Title                                                                 | Program #    | Board #       |
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| 544 Retinal Degeneration and Neuroprotection [RC]                            | #6409-6444   | (A302-A337)   |
| 545 Retinitis Pigmentosa III [RE]                                            | #6445-6462   | (A371-A388)   |
| 546 AMD Disease Mechanisms II [BI]                                           | #6463-6510   | (A389-A436)   |
| 547 AMD Clinical Research VII [RE]                                           | #6511-6537   | (A513-A539)   |
| 548 Retina and RPE Cell Biology [RC, VN]                                     | #6538-6569   | (A540-A571)   |
| 550 Cataract Surgery I [LE]                                                  | #6618-6651   | (A607-A640)   |
| 551 Cataract Surgery II [LE]                                                 | #6652-6680   | (A641-A670)   |
| 552 Cataract Complications and Drugs [LE]                                    | #6681-6709   | (D701-D729)   |
| 553 Cataract Training, Modeling, Pediatrics [LE]                             | #6710-6742   | (D730-D782)   |
| 554 Oculoplastics III [EV]                                                   | #6743-6760   | (D763-D780)   |
| 555 Pediatric Ophthalmology [CL]                                             | #6761-6783   | (D781-D803)   |
| 556 Corneal Biomechanics II [CO]                                             | #6784-6822   | (D948-D986)   |
| 557 Blood Flow [PH]                                                          | #6823-6866   | (D1153-D1196) |
| 558 Tumors: New Drugs, Delivery Systems and Mechanisms of Action [PH]        | #6867-6884   | (D1197-D1214) |

Poster board numbers indicate exhibit hall location:
A= Hall A; D= Hall D

10:15–11:15am: All Posters — authors will be present at poster boards.


5575 — 10:00 Femtosecond Laser Based Small Incision Lenticule Extraction For Moderate And High Myopia. Jesper Hjortdal, S. Asp, A. Ivarsen, A. Vestergaard. Ophthalmology, Aarhus University Hospital, Aarhus, Denmark. *CR, $\mathcal{P}$

5576 — 8:30 A Comparative Evaluation Of Translational Read-through Inducing Drugs For Treatment Of Ush. Kerstin Nagel-Wolfrum1, T. Goldmann1, E. Auvinet1,2, J.A. MacLaren1,2, M. Groppe1, A.R. Barnard1, T. Tolmachova1, M.J. During1, S.M. Downes2, A.J. Lotery3, G.C. Black4, A.R. Webster5, M.C. Seabra6. Cell and Matrix Biology, Johannes Gutenberg University of Mainz, Mainz, Germany; 2Edith and Joseph Fischer Eye Hospital NHS Foundation Trust, London, United Kingdom; 3Nuffield Laboratory of Ophthalmology, University of Oxford, Oxford, United Kingdom; 4Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom; 5MOLE, Imperial College London, London, United Kingdom; 6Molecular Medicine, Imperial College London, London, United Kingdom. *CR

5577 — 8:45 Gene Therapy For Choroideremia - Initial Report On A New Clinical Trial. Robert E. MacLaren1, M. Gropp1, A.R. Barnard1, T. Tolmachova1, M.J. During1, S.M. Downes2, A.J. Lotery3, G.C. Black4, A.R. Webster5, M.C. Seabra6. Nuffield Laboratory of Ophthalmology, University of Oxford, Oxford, United Kingdom; Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom; Molecular Medicine, Imperial College London, London, United Kingdom; Ohio State University Medical Center, Columbus, OH; Oxford Eye Hospital, Oxford University Hospitals NHS Trust, Oxford, United Kingdom; Ophthalmology - Eye Unit, Southampton General Hospital, Southampton, United Kingdom; Genetic Medicine, University of Manchester, Manchester, United Kingdom; UCL Institute of Ophthalmology, London, United Kingdom. *CR, $\mathcal{P}$

5578 — 9:00 Adenoviral and Lentiviral Vectors for Efficient Gene Transfer to Mouse Retina. Agostina Puppolo1, G. Ces1, D. Palmers2, P. Piccolo3, R.J. Parks1, P. Ng1, N. Brunetti-Pierri4, A. Auricchio5, TIGEM- Telethon Institute of Genetics and Medicine, Naples, Italy; 2Dept. of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX; 3Ottawa Hospital Research Institute, Ottawa, ON, Canada; 4Dept. of Pediatrics, Medical Genetics, “Federico II” University, Naples, Italy.


5581 — 9:45 Progeny Of Pronuclear Injections Of Mutant Human Mitochondrial Genes. Hong Ye1, T-H. Chou1, V. Porciatti1, W.W. Hauswirth1, V. Chiodo1, S.L. Boye1, J. Guy1. Ophthalmology, Bascom Palmer Eye Inst, Univ of Miami Miller School of Medicine, Miami, FL; 2Bascom Palmer Eye Inst, Univ of Miami Miller Sch Med, Miami, FL; 3Ophthalmology, University of Florida, Gainesville, FL.

5582 — 10:00 Increased Longevity of Rescue of Light-Induced Retinal Damage in an Adult Mouse Using Peptide for Ocular Delivery (POD) as a Gene Transfer Vector. Rajendra Kumar-Singh, C. Binder, S. Cashman. Ophthalmology, Tufts University, Boston, MA. *CR

Room 114

Thursday, May 10, 2012, 8:30 AM-10:15 AM

5583 — 8:30 The N-fatty Acyl Group In A Bovine Guanylyl Cyclase Activating Protein-1 Provides Intramolecular Tuning Of Its Calcium Sensitivity And Interaction With The Effector Enzyme. Igor V. Peshenko1, E. V. Olshesvskaya1, S. Lim1, J.B. Ames2, A.M. Dizhoor1. Pennsylvania College of Optometry, Salus University, Elkins Park, PA; 2Department of Chemistry, University of California, Davis, CA.
5584 — 8:45 Alzheimer Retina Pathology in a Novel Animal Model of Neuropathology in Diabetes. Peter Freidericks1, R. Kaswala2, W. Klein3, C. Kastanathan1. 1Pharmacology & Physiology, UMD New Jersey Medical School, Newark, NJ; 2Oral Biology, UMD New Jersey Dental School, Newark, NJ; 3Neurobiology & Physiology, Northwestern University, Evanston, IL. *CR

5585 — 9:00 Rescue Of Photoreceptor Degeneration In Rd1 Mice By Systematic Treatment With Valproic Acid. Kenneth P. Mitton, E.E. Guzman, D. Byrd, T. Tran, J. Setzen. Eye Research Institute, Oakland University, Rochester, MI.


5588 — 9:45 Cis-regulation of Lif mRNA stability in Muller cells. Cavit Aajea, G. Traher, C. Caprara, C. Beck, J.P. Meneau, C. Grimm. Ophthalmology, University of Zurich, Zurich, Switzerland.

5589 — 10:00 Tre3 is an Essential Epigenetic factor for Eye development. Stephen P. Sugrue1, G. Xu2, Y. Kato3, Y. Xu4, Y. Shi5. 1Anatomy & Cell Biology, University of Florida, Gainesville, FL; 2Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences, Shanghai, China; 3Department of Biomedical Sciences, Florida State University College of Medicine, Tallahassee, FL; 4Endocrinology Division, Brigham and Women’s Hospital, Boston, MA.

Room 315
Thursday, May 10, 2012, 8:30 AM-10:15 AM

505 Lens Cell Differentiation

Moderators: A S Menko and Roy A Quinlan

5590 — 8:30 Deletion Of Cdk1 In The Ocular Lens Leads To A Disruption Of The Lens Epithelial Cell Proliferation, Differentiation, And Nuclear Retention. Blake R. Chaffee1, M.L. Robinson1, F. Shang2, T. Clement1, M. Eddy1, B. Wagner1, A. Taylor2. 1Zoology, Miami University, Oxford, OH; 2Human Nutrition Res Ctr on Aging, Nutrition & Vision Res- USDA-HNRCA, Tsufts University, Boston, MA; 3National Institute of Environmental Health Sciences, NIH, Research Triangle Park, NC; 4National Institute of Environmental Health Sciences, Research Triangle Park, NC.


5592 — 9:00 Glutaredoxin (Grx2) Gene Knockdown Suppresses Fiber Cell Differentiation and Delays De-nucleation of the Mouse Lens. Marjorie F. Loui1,2, S. Basu1, Y. Yu1, H. Wu1, A S. Menko1. 1Veterinary Medicine & Biomedical Sciences, University of Nebraska-Lincoln, Lincoln, NE; 2Department of Ophthalmology, University of Nebraska Medical Center, Omaha, NE; 3Pathology Anatomy & Cell Biology, Thomas Jefferson University, Philadelphia, PA.

5593 — 9:15 K6W Mutant Ubiquitin Activates Calpain In Lens. Ke Liu1, A. Caceres2, J. Peng2, F. Shang2, J. Gao3, X. Sun3, R.T. Mathias3, A. Taylor4. 1Human Nutrition Research Ctr on Aging, Tufts University, Boston, MA; 2Structural Biology, St. Jude Children’s Research Hospital, Memphis, TN; 3Physiology & Biophysics, State Univ of NY-Stony Brook, Stony Brook, NY.

5594 — 9:30 Dlg-1 and Scrib are Modulators of Wnt/PCP in the Mouse Ocular Lens. Shalini Shatatda1, R. Rachel1, A. Griep1. 2Cell and Regenerative Biology, Anatomical, Univ of Madison-WI, Madison, WI.

5595 — 9:45 Post-translational Modifications of BFGF1. Roy A. Quinlan1, A. Tapodi1, E.W. Tate2, W.P. Heat3, A.R. Prescott1. 1School of Biological/Biomedical Sciences, Biophysical Sciences Inst, Durham Univ, Durham, United Kingdom; 2Department of Chemistry, Imperial College, London, United Kingdom; 3School of Life Sciences, CHIPS and Division of Cell Biology and Immunology, Dundee University, Dundee, United Kingdom.

5596 — 10:00 Chromatin Remodeling Enzymes Smnf2h/smarca5 And Brg1/smarc4 Are Independently Required For Mouse Lens Morphogenesis. Shuying He1A, J. Sun2A, A. Cvekl3A. 1School for Optical Research & Education, Utsunomiya University, Japan; 2Center for Vision Science, University of Arizona, Tucson, AZ. *CR


5599 — 9:00 Photoreceptor and RPE Disruptions Observed Outside Clinically Visible Geographic Atrophy Lesions in the Living Eye with Fluorescence Adaptive Optics Scanning Laser Ophthalmoscopy (FAOSLO). Ethan A. Rossi1, D.R. Williams1A, D. Dubra1A, H. Song2, M.A. Folwell1A, L.R. Latchney1B, M.M. Chang1A, C. Center for Vision Science, 1Institute of Optics, 2Flaum Eye Institute, Rochester, Rochester, NY; 3Ophthalmology, Biophysics, Medical College of Wisconsin, Milwaukee, WI. *CR

5600 — 9:15 In Vivo Two-Photon Imaging Of Mouse Retina. Robin Sharma1A, Y. Geng1A, L. Yin1A, W.H. Merigan1A, D.R. Williams1A, J.J. Hunter1A, 1Institute of Optics, 2Center for Vision Science, 3Flaum Eye Institute, University of Rochester, Rochester, NY. *CR

5601 — 9:30 Imaging The Living Human Cone Inner Segment. Ravi S. Jonah1A, O.P. Kocaoglu1, W. Quangi1B, D. Y. Lu1B, D.T. Miller1B. 1Program in Vision Science, School of Optometry, 1Indiana University, Bloomington, IN. *CR

5602 — 9:45 Measuring Individual Cone Directionalities Using Scanning Laser Ophthalmoscopy. Diego Rativa Millan1, Ravi S. Jonah1A, B. Vohsen1. 1School of Physics, University College of Dublin, Dublin, Ireland; 2Department of Electronics and Systems, Universidad Federal de Pernambuco, Recife, Brazil; 3School of Physics, University College Dublin, Dublin, Ireland.

5603 — 10:00 Adaptive Optics-Assisted Optical Coherence Tomography For Patient Imaging. Barry Cense1, K. Sud2, K. Kurokawa2, Y. Yasuno2. 1Ctr for Optical Resrch & Education, Utsunomiya University, 2Center of Applied Physics, Computational Optics Group, Tsukuba, Japan; 3Computational Optics Group, University of Tsukuba, Tsukuba, Japan. *CR

Palm A
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Visual Psychophysics & Physiological Optics / Multidisciplinary Ophthalmic Imaging Group / Retina

506 Innovative Approaches to Retinal Imaging

Moderators: Barry Cense and Stephen A Burns

* Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures - Refer to Program Number in the Clinical Trial (CT) Registration Index - Travel Grant Awardee
507 Eye Movements, Nystagmus and Amblyopia

Moderators: Benjamin Thompson and Larry A Abel

5604 — 8:30 Optic Nerve Misprojections in the Zebradish Mutant belladonna: A Disease Model for Infantile Nystagmus Syndrome. Sabina P. Huber-Reggi1, C-C. Chen2, L. Holliger3, D. Straumann2, S.C. Neuhauss1, M-Y. Huang2,1. 1Institute of Molecular Life Sciences, University of Zurich, Zurich, Switzerland; 2Institute of Ophthalmology, University Hospital Zurich, Zurich, Switzerland; 3Department of Ophthalmology, University of Erlangen, Erlangen, Germany.

5605 — 8:45 A Velocity Based Method For Measuring Optokinetic Nystagmus Using Off The Shelf Video Equipment. Jason Turuwthena1, T-Y. Yu2, Z. Mazharullah1, B. Thompson1. 1Auckland Bioengineering Institute, 2Department of Optometry and Vision Science, University of Auckland, Auckland, New Zealand.

5606 — 9:00 Uncorrected Antisaccade Errors Predict Cognitive Problems After Mild Traumatic Brain Injury In Younger Children. Larry A. Abel1, A. Phillips2, J.M. Douglas2. 1Optometry & Vision Sciences, University of Melbourne, Carlton, Australia; 2Human Communication Sciences, La Trobe University, Bundoora, Australia.


5608 — 9:30 Saccadic Adaptation In Amblyopia. Rana Arham Raaschid1,4, M. Chandrakumar1, A. Blakeman4, H. Goltz4, A.M. Wong8. 1Neuroscience and Mental Health, 2Department of Ophthalmology and Vision Sciences, 3The Hospital for Sick Children, Toronto, ON, Canada; 4University of Toronto, ON, Canada.

5609 — 9:45 Effect of Compliance to Glasses Wear on the Outcome of Visual Acuity after Refractive Adaptation. Gail Maconachie1, S. Farooq1, G. Bush6, F.A. Proudlock1, I. Gottlob6. 1Optometry, University of Leicester, Leicester, United Kingdom; 2Bradford Teaching Hospitals, Bradford, United Kingdom; 3Medical Physics, University Hospitals of Leicester, Leicester, United Kingdom.

5610 — 10:00 Pre-operative Visual Acuity and Contrast Sensitivity Deficits in Children with Small, Partial, or Non-Central Cataracts. Eileen E. Birch7, Y. Subramanian1, C.S. Cheng7, D. Stager, Jr.7. 1Retina Foundation of the Southwest, Dallas, TX; 2Ophthalmology, UT Southwestern Medical Center, Dallas, TX; 3Pediatric Ophthalmology & Adult Strabismus, Plano, TX.


5612 — 8:45 Multi-disciplinary Management Of Eyelid Merkel Cell Carcinoma. Qasiem J. Nasser1, A. Khan1, W. Morrison1, T. El-Sawy1, S. Frank1, B. Esmaeili1. 1Section of Ophthalmology, Department of Head and Neck Surgery, 2Department of Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX.

5613 — 9:00 Mir211 Is Dysregulated In Conjunctival Melanocytic proliferations. Alexandre P. Moulind1,2, N. Nicolas1, A. Schalenbourg1, M. Hanedani1, Z. Leonidas5, L. Duncan5. 1Pathology, Ophthalmology, 2Jules Gonin Eye Hospital, Lausanne University, Lausanne, Switzerland; 3Dermatopathology, Massachusetts General Hospital, Harvard Medical School, Boston, MA.

5614 — 9:15 Lymphoid Enhancing Factor 1-lef-1 Gene Mutation and Its Differential mRNA Expression in Eyelid Sebaceous Carcinoma. Perumal Jayaraj1, S. Sen1, A. Sharma2, S. Kashyap2, A. Rai1, N. Pushker1, M.S. Bajaj2, S. Ghose1, R. Azad2. 1Department of Ocular Pathology, 2Department of Ocular Microbiology, Ophthalmoplasty service, Dr.R.P.Centre, A.I.M.S, New Delhi, India; 3Division of Biochemistry and Biotechnology, National Centre for Disease Control, New Delhi, India.

5615 — 9:30 Primary Intraocular Lymphoma: A Twenty-year Review Of Incidence, Clinical Features, Treatment And Outcomes. Steve D. Levasseur1,4, L.A. Wittenberg4, V.A. White8. 1Department of Ophthalmology & Visual Sciences, 2Department of Ophthalmology & Visual Sciences, Department of Pathology, University of British Columbia, Vancouver, BC, Canada.

5616 — 9:45 Invasion of Lymphatic Vessels into the Eye after Open Globe Injury. Ludwig M. Heindl1,2, J.M. Wessel1, C. Hofmann-Rummelt2, G.O. Naumann2, F.E. Kruse2, C. Carstierf2. 1Department of Ophthalmology, University of Cologne, Cologne, Germany; 2Department of Ophthalmology, University of Erlangen, Erlangen, Germany.

5617 — 10:00 Molecular Histopathology Using Gold Nanorods And Optical Coherence Tomography. Jared L. Matthews1, S. Prabhulkar2, A. de la Zerda3, S. Gambhir3, R. Awdeh4. 1Bascom Palmer Eye Institute, Coral Gables, FL; 2Ophthalmology, Bascom Palmer Eye Institute, University of Miami, FL; 3Electrical Engineering and Radiology, 4Bioengineering & Materials Science and Engineering, Stanford University, Palo Alto, CA; 5Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures — Refer to Program Number in the Clinical Trial (CT) Registration Index — Travel Grant Awardee
5622 — 9:30 Agreement Between Contrast Sensitivity Perimetry (CSP) and Clinical Measures Of Glaucomatous Damage: Validation Of A Neural Model For A Longitudinal Study. William H. Swanson1, V.E. Malinovsky1, M.W. Du1,2, J.K. Torbit1, B.M. Sutton1, R. Malik1, School of Optometry, Indiana University, Bloomington, IN; 2Clinical Sciences, SUNY College of Optometry, New York, NY; 3SUNY Eye Institute, New York, NY; 4Glaucoma Research Center, National Institutes of Health, Bethesda, MD. 5623 — 9:45 Are Certain Eye Movement Patterns Linked To Better Face Recognition Performance In Patients With Central Glaucomatous Visual Field Loss? Fiona C. Glen1, D.P. Crabb1, N.D. Smith1, R. Burton1, D.F. Garway-Heath2,3, Department of Optometry & Visual Science, City University London, London, United Kingdom; 2NIHR Biomedical Research Centre for Ophthalmology, Moorfields Eye Hospital Foundation Trust, London, United Kingdom; 3Institute of Ophthalmology, University College London, London, United Kingdom.

5624 — 10:00 Correlation of Brain Volumes and Functional Deficits in Glaucoma. Alice L. Williams1, J. Lackey1, S. Wizov1, S. Gatla1, R. Sergott1, T. Chia1, S. Lai2, G.L. Spaeth2, Temple University School of Medicine, Philadelphia, PA; 2Department of Radiology, Thomas Jefferson University, Philadelphia, PA; 3Wills Eye Institute, Philadelphia, PA; 4Anna V. Goldberg Glaucoma Service, National Institutes of Health, Bethesda, MD. 5625 — 8:45 Successful Photoreceptor-Directed Gene Therapy with AAV2/5-hRPGR Reverses Post-Receptoral Remodeling in Canine Models of X-linked RP. Gustavo D. Aguirre1, A.V. Cideciyan1, A.S. Levin2, S. Iwabe1, H. Khandalavala1, A. Swaroop1, W.W. Hauswirth1, S.G. Jacobson2, W.A. Beltran1, 1Clinical Studies, Univ of Penn Sch Veterinary Med, Philadelphia, PA; 2Dept of Ophthalmology, Scheie Eye Institute, Philadelphia, PA; 3Molecular Genetics & Microbio, 4Glaucoma, 5University of Florida, Gainesville, FL; 6Ophthalmology, University of Massachusetts Medical School, Worcester, MA; 7N-NRL, Bldg 6, National Eye Institute, Bethesda, MD. 5626 — 9:00 Rhodopsin Mutants Destabilize Rod Outer Segment Disk Membranes. Mohammad Haeri, S.E. Reks, B.E. Knox, Ophthalmology & Neuroscience & Physiology, SUNY Upstate Medical University, SUNY Eye Institute, Syracuse, NY.

5627 — 9:15 Endothelial Progenitor Cells With Low Aldehyde Dehydrogenase Activity Recruited Monoctye-Derived Macrophages Through CCL2 Secretion And Rescued Vessel And Photoreceptor With Retinal Degeneration. Shinich Fuku1, T. Yamashita2, K. Kimura3, K. Akimoto4, J. Tsuboi5, S. Ueno1, M. Kondo1, T. Oshika1, O. Ohneda6, 1Ophthalmology, 2Regenerative Medicine and Stem Cell Biology, Tsukuba University, Tsukuba, Japan; 3Ophthalmology, Nagoya Univ School of Med, Nagoya, Japan; 4Ophthalmology, Mie University Graduate School of Medicine, Tsu, Japan.

5628 — 9:30 Phenotypic conservation in RPGR mutations. Kari E. Branham1, S. Zahid1, N.W. Khan1, M.I. Ohman1, A. Moncrief1, P.A. Sieving2, A. Swaroop3, K. Jayasundera1, J.R. Heckenlively1, 1Ophthalmology and Visual Sciences, University of Michigan, Ann Arbor, MI; 2N-NRL, Bldg 6, 3National Eye Institute, Bethesda, MD. 5629 — 9:45 CRB2 and CRB1 in Retinal Development and Maintenance. Celso H. Alves1, L. Pellissier1, B. Park1, A. Sanz Sanz1, S. Beck2, G. Huber2, N. Tanimoto3, M. Garrido2, F. Richard3, J. Wijnholds1, 1Neuromedical Genetics, Netherlands Inst for Neuroscience, Amsterdam, The Netherlands; 2Ocular Neurodegeneration Centre for Ophthalmology, Institute for Ophthalnic Research, Tubingen, Germany; 3Ingenieur d’étude CNRS / ACMO, Université de la Méditerranée, Developmental Biology Institute of Marseille Luminy (IBDML), Marseille, France.

5630 — 10:00 Knockout Of Cer2 Promotes Photoreceptor Survival In A Model Of Retinitis Pigmentosa. Atsushi Otani1, C. Guo1, A. Oishi1, N. Yoshimura1, 1Ophthalmology, Japanese Red Cross Wakayama Med Ctr, Wakayama, Japan; 2Ophthalmology, Kyoto University, Kyoto, Japan.
5632 — A28  Reported Decreases in Vision During and After Pregnancy in Women with Retinitis Pigmentosa. Pamela E. Jeter1, G. Dagnelie1, M. Khan2, A.K. Bittner1. Ophthalmology, Johns Hopkins University, Baltimore, MD; 3Civil Hospital Karachi, Karachi, Pakistan.

5633 — A29  Cataract, Visual Impairment, Blindness And Risk Of Mortality In Rural Population Of The Andhra Pradesh Eye Disease Study, India. Rohit C. Khanna1, G.V. Murthy2, S. Krishnasai3, H.B. Pani1, P. Giridhar1, C.E. Gilbert2, G.N. Rao1. 1Allen Foster Research Centre for Community Eye Health, LV Prasad Eye Institute, Hyderabad, India; 2International Centre for Eye Health, London School of Hygiene & Tropical Medicine, London, United Kingdom; 3Indian Institute of Public Health, Hyderabad, India.


5635 — A31  Uncorrected refractive errors and ocular pathology found in outreach clinics in Malawi and Ethiopia. Rachel V. North2. 1Sch of Optom & Vision Sci, Cardif University, Cardiff, United Kingdom; 2Vision Aid Overseas, Crawley, United Kingdom.

5636 — A32  Ophthalmology Inpatient Consultations For Patients With Acute And Chronic Leukemia At A Boston Tertiary Care Hospital. Nancy Huyhn, H-Y. Chang, S. Borboli-Gerogiannis. Ophthalmology, Massachusetts Eye & Ear Infirmary, Boston, MA.

5637 — A33  Direct Comparison of Current Pediatric Pseudoisochromatic Color Vision Tests in Preschool Children. Michele E. Mercer1, R.J. Adams2. 1Psychology, 2Psychology/Pediatrics, 1Memorial University, St John’s, NL, Canada.

5638 — A34  Danish Rural Eye Study (DRES): Preliminary Data on Visual Impairment in Randomly Selected Adults of Denmark. Tracy B. Hoeg1, B. Moldov2, H. Buch Hesgaard3, D. Erngaard1, K. Klemm4, M. La Cour1, C. Ellervik1. 1Ophthalmology, 2Clinical Biochemistry, 1Naestved Hospital, University of Copenhagen, Naestved, Denmark; 3Ophthalmology, 4Glostrup Hospital, Glostrup, Denmark; 5Ophthalmology, Glostrup Hospital, University of Copenhagen, Glostrup, Denmark.

5639 — A35  A Comparison of Visuocortical Function in Premature Infants with Grade I/II and Grade III/IV Intraventricular Hemorrhage. William V. Good1, C. Hou2, A. Norcia1. 1Smith-Kettlewell Eye Research Institute, San Francisco, CA; 2Department of Psychology, Stanford University, Stanford, CA.

5640 — A36  The Prevalence and Causes of Visual Impairment and Blindness in a Multi-Ethnic Asian Population: The Singapore Epidemic of Eye Disease (SEED) Study. Tien Y. Wong1, Y. Zheng1, W-L. Wong2, E.L. Lamoureux1, J-J. Wang3, P. Mitchell1, N. Cheung4, T. Au6, S. Saw5, C. Cheng5. Singapore Eye Research Institute, Singapore National Eye Centre, Singapore, Singapore; 1Centre for Eye Research Australia, University of Melbourne, Melbourne, Australia; 2Centre for Vision Research, University of Sydney, Sydney, Australia; 3Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 4’Saw Swee Hock School of Public Health, National University of Singapore, Singapore, Singapore.

5641 — A37  Epidemiology of Chinese Patients in the Ophthalmology Clinic of a New York City Public Hospital. See H. Wong1, L.G. Chen2, C.C. Teng3. Ophthalmology, NYU School of Medicine, New York, NY; 2Einhorn Clinical Research Center, New York Eye and Ear Infirmary, New York, NY.

5642 — A38  Genetic Determinants of Serum Lutein and Zeaxanthin Levels in the Carotenoids in Age-Related Eye Disease Studies. Chitra K. Karki1, S.K. Iyengar2, B. Truitt2, R.P. Igo, Jr4, E. Johnson1, L. Tinker4, K.J. Meyers1, J.A. Mares1. Ophthalmology and Visual Sciences, University of Wisconsin-Madison, Madison, WI; 2Epidemiology & Biostatistics, Case Western Reserve University, Cleveland, OH; 3Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA; 4‘Cancer Prevention Research Program, Fred Hutchinson Cancer Research Center, Seattle, WA. *CR


5644 — A40  Heritability Of Ocular Biometry Parameters Using Structural Equation Modeling In A Study Of Angle-closure Glaucoma. Robert Wojciechowski1, P.Y. Ramula2, S. Kavitha1, P. Sandersen1, L. Layman1, H. Friedman1, R. Venkatesshi. 1Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD; 2Ophthalmology, Wilmer Eye Institute/Johns Hopkins, Baltimore, MD; 3Aravind Eye Hospital, Pondicherry, India; 4‘Genetics, Aravind Med Res Foundation, Madurai, India.


5646 — A42  Rare Variant Analysis of Refractive Error in the AREDS Cohort. Joan E. Bailey-Wilson1, C.L. Simpson2, R. Wojciechowski1, C. Motter3, S. Szymczak1, D. Stambolian1. 1National Human Genome Research Inst, National Institutes of Health, Baltimore, MD; 2Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD; 3Ophthalmology-Stellar Chance Lab, University of Pennsylvania, Philadelphia, PA.


5648 — A44  High Resolution Adaptive Optics Imaging Compliments Standard SD-OCT Imaging in Macular Diseases. Gibran S. Khurshid1, A. Boretsky2, P. Gupta2, C. Tung4, B.F. Godley3, M. Motamedi3, E.F. van Kuijk4. 1Ophthalmology & Visual Sciences, 2Ophthalm & Visual Sciences, 1Ophthalmology and Visual Sciences, 3Univ of Texas Medical Branch, Galveston, TX; 4‘Ctr for Biomed Engineering, Univ of Texas Medical Branch, Houston, TX; 5Ophthalmology MMC 493, Univ of Minnesota, Minneapolis, MN.

5649 — A45  Spectral and Phase Analyses of Ocular Hemodynamics using Combined STDOCT and Ultrasonic Method. Monika E. Danielewskia1, D. Szlag2, D. Iskander3, M. Wojtkowski1. 1Institute of Physics, 2Institute of Biomedical Engineering and Instrumentation, 3Wroclaw University of Technology, Wroclaw, Poland; 4Institute of Physics, Nicolaus Copernicus University, Torun, Poland.

5650 — A46  High-resolution Imaging Of The White Dot Structure Observed In Fundus Albipunctatus. Yukiko Makiyama1, S. Ooto1, M. Hangoi1, K. Takayama1, A. Oishi1, K. Ogino1, S. Nakagawa1, K. Yonezawa1, Y. Satô1, N. Yoshimura1. 1Ophthalmology and Visual Science, Kyoto University Grad School of Med, Kyoto, Japan; 2CANON INC., Tokyo, Japan. *CR

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – Refer to Program Number in the Clinical Trial (CT) Registration Index – Travel Grant Awardee
5651 — A47 The Nile Rat Model of Diabetes-a Cone-Rich Retina with a Nocturnal Eye Design Enables Enhanced Resolution of the Retina. Melanie C. Campbell‡1,4, M.L. Kistlak‡1,4, K. Bunghardt‡1,4, E.L. Irving‡1,4, N. Gibson†1,4, L. Emptage3, Y. Sauge, V. Choli1,4. 1Physics & Astronomy/Sch of Optom, 2Physics & Astronomy, 3School of Optometry, 4Psychology, University of Waterloo, Waterloo, ON, Canada; 4Dept of Optophthalmology, University of Alberta, Edmonton, AB, Canada.


5653 — A49 Improved Retinal Blood Flow Analysis Method Using Abnormal Frame Information Automatically Detected From AOSLO Image Sequence. Hiroshi Imamura1, P. Fletcher1, K. Nolato1, S. Ueda1, A. Uji1, N. Yoshimura1. 1Canon Inc, Tokyo, Japan; 2Canon Information Systems Research Australia, Sydney, Australia; 3Ophthalmology, Kyoto University Graduate School of Medicine, Kyoto City, Japan. *CR

5654 — A50 Characterization of Diabetic Retinopathy Lesions Using Adaptive Optics Scanning Laser Ophthalmoscopy. Sonja G. Prager‡2, S.H. Radwani‡1, H. Kwaakit, P.S. Silva†, S.A. Burns‡, L.P. AielloL, J.K. Sun1. 1Ophthalmology, The Ohio State University, Columbus, OH; 2School of Optometry, University of Wisconsin, Milwaukee, WI. *CR

5655 — A51 Structural analysis of small vessels in the Human Retina: an adaptive optics study. Michel Paques1, K. Nakashima1, F. Rossant2, J-A. Sahel1. 1Ophthalmology, Lariboisiere Hospital-INSERM, Paris, France; 2Clinical Investigation Center 503, Quinze-Vingts Hospital, INSERM, Paris, France; 3SCHU, University of Amsterdam, Amsterdam, NL.


5657 — A53 In Vivo Investigation of the Retinal Microvasculature in Patients with Type 1 Diabetes Mellitus. Mariacristina Pazzaran1, M. Lombardo1, G. Lombardo1, B. Boccassini1, S. Lioi1, M. Varano1. 1Ophthalmology, Fondazione IRCCS, Milano, Italy; 2University of Milano-Bicocca, Monza, Italy; 3Ophthalmology, University of Milan, Milan, Italy.

5658 — A54 Measurement Of Retinal Blood Flow In Diabetic Retinopathy Using Adaptive Optics Scanning Laser Ophthalmoscopy. Akibito Uji1, M. Hangai1, S. Ooto1, T. Murakami1, N. Yoshimura1, H. Imamura1, K. Nolato1. 1Ophthalmology, Kyoto Univ Graduate Sch of Med, Kyoto City, Japan; 2Canon INC., Tokyo, Japan. *CR

5659 — A55 Adaptive Optics and SD OCT in Macular Telangiectasia Type 2. Alain Gaudric1, K. Nakashima1, V. Krivoviche1, N. Chateau1, J-A. Sahel1, M. Paques1. 1Ophthalmology, Lariboisiere Hospital-INSERM, Paris 7, Paris, France; 2Ophthalmology, Clinical Investigation Center 503 Quinze-Vingts Hospital, INSERM, Paris, France; 3Imagine Eyes, Orsay, France; 4Ophthalmology, UMR-S 968 Institut de la Vision, Paris, France. *CR


5661 — A57 Effectiveness In Detecting Area Of Photoreceptor Disruption By Dioptric Adaptive Optics Scanning Laser Ophthalmoscopy (d-aoslo) With Wide Field Of View. Yoshiyuki Kitaguchi1, T. Fujikado1, H. Kandai1, T. Morimoto1, T. Yamaguchi1, T. Mihashi1, K. Nishida1. 1Ophthalmology, Sumitomo hospital, Osaka, Japan; 2Applied Visual Science, Osaka University, Suita, Japan; 3Topcon Rearch Institute, Itabashi, Japan; 4Ophthalmology, Osaka University, Osaka, Japan. *CR

5662 — A58 Foveal Microvasculature And Its Relationship To Retinal Thickness. Toyo Y. Chiu1, A.E. Elser1, S.A. Burns1. 1Optometry, Indiana University, Bloomington, IN; 2School of Optometry, Indiana University, Bloomington, IN.

5663 — A59 Variations Of The Eye’S Image Optical Quality And The Sampling Limit Of Resolution Of The Cone Mosaic With Axial Length. Marco Lombardo1, S. Serrao1, P. Dacoli1, G. Lombardo1. 1IRCCS Fondazione G.B. Bietti, Rome, Italy; 2CNR-IPCF Unit of Support Cosenza, LiCryL Laboratory, University of Calabria, Rende, Italy.

5664 — A60 Distribution of Outer Nuclear Layer Thickness in SDOCT Images. Joel A. Papay, C.A. Clark, T.Y. Chui1, L. Zhao, A.E. Elser1. Optometry, Indiana University, Bloomington, IN.

5665 — A61 Perifoveal Retinal Thickness and Temporal Contrast Sensitivity in Axial Myopia. Nancy J. Coletta1, Y. Pilz2, A. Ciepiela1. 1Vision Science, New England College of Optometry, Boston, MA; 2School of Optometry, University of California, Berkeley, CA.

5666 — A62 In vivo Imaging of Photoreceptor Loss Associated with Dry Age-Related Macular Degeneration Using Adaptive Optics Scanning Laser Ophthalmoscopy. Adam Boretsky1, F. Khan1, G. Burnett1, R. Harris1, M. Stephens1, M. Motamedi1, E.F. van Kuijk2. 1The Ohio State University, Columbus, OH; 2Center for Biomedical Engineering, School of Medicine, Univ of Texas Medical Branch, Galveston, TX; 3Optophthalmology MMC 493, Univ of Minnesota, Minneapolis, MN.

5667 — A63 Adaptive Optics Scanning Laser Ophthalmoscopy With Amplitude Pupil Apodization. Jusufu N. Salu1, A. Dubra1,2. 1The Institute of Optics, 2Flaum Eye Institute, 3University of Rochester, Rochester, NY; 4Ophthalmology, Biophysics, Medical College of Wisconsin, Milwaukee, WI. *CR

5668 — A64 Limitations To Adaptive Optics Imaging Quality In Highly Powered Eyes. Xiaolin Zhou, P. Bedggood, A. Metha. Department of Optometry and Vision Sciences, University of Melbourne, Melbourne, Australia.

5669 — A65 The Repeatability of Photoreceptor Reflectance Changes in the Living Human Retina. Robert F. Cooper1, J. Rha2, A.M. Dubis1,2, A. Dubra1,2, J. Carroll2,4,5. 1Biomedical Engineering, Marquette University, Milwaukee, WI; 2Ophthalmology, 3Cell Biology, Neurobiology & Anatomy, 4Biophysics, 5Medical College of Wisconsin, Milwaukee, WI. *CR


5671 — A67 Retinal Structure and Visual Function in Patients with Blue Cone Monochromatism. Xinda Luo, A.V. Cideciyan1, A. Samarako, S.B. Schwartz, J.A. Romani, J.B. Goldberg, B. Baumann, B. Wissinger2, S. Koh1, S.G. Jacobson1. 1Department of Ophthalmology, Scheie Eye Institute, Philadelphia, PA; 2Center for Ophthalmology, Institute for Ophthalmic Research, Molecular Genetics Laboratory, Tuebingen, Germany.

5672 — A68 Assessing the Relationship Between Cone Density and Foveal Morphology. Adam M. Dubis1, S.O. Hansen1, R.F. Cooper1, B.R. Hansen1, J. Carroll1,2,3, 4Cell Biology, Neurobiology and Anatomy, 5Ophthalmology, 6Medical College of Wisconsin, Wauwatosa, WI; 7Biomedical Engineering, Marquette University, Milwaukee, WI.

5673 — A69 Disrupted RPE and intact photoreceptors observed in vivo with Fluorescence Adaptive Optics Scanning Laser Ophthalmoscopy years following accidental laser exposures in humans. Jennifer J. Hunter1,2,3, E.A. Ross1, W. Fischer1, A. Dubra1,2,3, M.M. Chung1,2,4. 1Flaum Eye Institute, 2Center for Visual Science, 3University of Rochester, Rochester, NY; 4Ophthalmology, Biophysics, Medical College of Wisconsin, Milwaukee, WI.

5674 — A70 Measuring the Performance of an Adaptive Optics Flood Illuminated Camera for Imaging the Cone Mosaic in the Clinical Setting. Jonathan D. Fay, A. Faridi, A. Garg, M.E. Pennesi. Casey Eye Institute, Oregon Health and Science University, Portland, OR.

5675 — A71 Fluorescence Adaptive Optics Scanning Laser Ophthalmoscopy Demonstrates Intraretinal Spots and Low Cone Density in Fundus Alpignatus. Hongxun Song1, D.R. Williams1,2, L. Latchney1, A. Dubra1, M.M. Chung1,2. 1Center for Visual Science, 2Institute of Optics, 3Flaum Eye Institute, 4University of Rochester, Rochester, NY; 5Ophthalmology, Medical College of Wisconsin, Milwaukee, WI. *CR
5676 — A72 Determinants Of Normal Human Cone Photoreceptor Density Measured By Adaptive Optics Scanning Laser Ophthalmoscope. Sang Pyo Park1, J. Chung2, F. Hirose1, S.H. Tsang1, S. Chang1. 1Department of Ophthalmology, Columbia university medical center, New York, NY; 2Department of Ophthalmology, Kangdong Sacred Heart Hospital, Seoul, Republic of Korea; 3Canon INC,. Tokyo, Japan.*CR

5677 — A73 Spatially-resolved Adaptive Optics Photopigment Densitometry for Assessing Photoreceptor Function. Benjamin D. Masella1,2, J.J. Hunter3,4, D.R. Williams5,6, 7The Institute of Optics, 8Center for Visual Science, 9Flaum Eye Institute, 1University of Rochester, Rochester, NY.*CR

5678 — A74 Photoreceptor Analysis using Entrance-Pupil Structuring and Motorized Confocal Scanning. Brian Vohnsen, D. Rativa Millan, B. Lochocki, C. Vela-Garcia. School of Physics, University College Dublin, Dublin, Ireland.*CR

5679 — A75 Light Radiated from Myoids for Oblique Incidences upon Foveal Cones. Jean-Marie Gorrand, M. Doly. Biophysique des Handicaps Sensoriels, School of Medicine, Clermont Ferrand, France; Biophysique des Handicaps Sensoriels, Universite d’Auvergne, Clermont-Ferrand, France.

5680 — A76 Extending The Field Of View In Adaptive Optics Scanning Laser Ophthalmoscopy. FranzFelberer1, J.S. Krosisman2, C.K. Hitzenberger2, M. Pircher4. 1Center for Medical Physics and Biomedical Engineering, 2Ophthalmology, Medical University of Vienna, Vienna, Austria.

5681 — A77 Optics Design For Confocal Scanning Laser Ophthalmoscope. Chuangho Li1, H. Chen1, Y. Li1, Z. Tang1. 1School of Ophthalmology and Optometry, Wenzhou Medical College, Wenzhou, China; 2Suzhou Micronuclear Instruments Co., Ltd, Suzhou, China.


5683 — A79 Simulation Of Fundus Image Measurements - One Step Toward Virtual Clinical Trial. Ying-Ling Chen1, L. Shi2, J.L. Lewis1, M. Wang1. 1Univ of Tennessee Space Inst, Tullahoma, TN; 2University of Tennessee Space Institute, Tullahoma, TN; 3E-Vision Technologies, Inc, Tullahoma, TN; 4Wang Vision Institute, Nashville, TN.*CR

5684 — A99 Oscillatory Potential Contribution to the ERG: A New Mean to Identify Disease Onset. Nataly Tran2, M. Gauvin2, R. Koenekoop2, J. Little2, J-M. Lina1, P. Lachapelle1. 1Department of Ophthalmology, Neurology and Neurosurgery, McGill University-Montreal Children’s Hospital Research Institute, Montreal, QC, Canada; 2École de technologie supérieure, Montreal, QC, Canada.

5685 — A100 Topographic Mapping Of Functioning Cone And Rod System In Inherited Retinal Degenerations With Confirmed Gene Mutations. Ieva Slesioraitiene1, E. Treoger1, S. Kohl1, B. Wissinger1, E. Zrenner1. 1Institute for Ophthalmic Research, University of Tuebingen, Tuebingen, Germany; 2Institute for Ophthalmic Research, Molecular Genetics Laboratory, Tuebingen, Germany; 3Molecular Genetics Laboratory, 4Institute for Ophthalmic Research, 5Centre for Ophthalmic Research, 6Centre for Ophthalmic Research, Germany.

5686 — A101 Molecular Modeling of RS1 Structure Indicates Two Classes of Missense Variants With Mild and Severe XLRS Phenotypes. Yuri V. Sergeev1, P.A. Stevning2, A. Vincent1, A.G. Robson2, A.T. Moore1, A.R. Webster2, G.E. Holder2. 1OGYFB, 2National Eye Institute, Bethesda, MD; 3Electrophysiology, Moorfields Eye Hospital, London, United Kingdom; 4Institute of Ophthalmology, University College, London, United Kingdom.

5687 — A102 Retinal Function Assessed By Full-field ERG In Ranibizumab Treated Neovascular AMD Patients. Karen B. Pedersen1, F. Moller1, A. Sjølie1, S. Andreasson3. 1Department of Ophthalmology, Odense University Hospital, Odense, Denmark; 2Ophthalmology, Lund University Hospital, Lund, Sweden.


5689 — A105 Discrete Wavelet Transform (DWT) Of The ERG More Accurately Predicts The End Stage Of Retinal Degenerative Disorders. Mathieu Gauvin1,2, J Racine1, J. Daloze1, R. Koenekoop3, J. Little1, M. Hebert, J. Lina1, P. Lachapelle1. 1Department of Ophthalmology, Neurology and Neurosurgery, McGill University - Montreal Children’s Hospital Research Institute, Montreal, QC, Canada; 2Electrical Engineering, Ecole de Technologie Supérieure, Montreal, QC, Canada; 3Ophthalmology, Laval University - Centre de recherche Université Laval Robert-Giffard, Quebec, QC, Canada.


5692 — A107 Two New Mutations in RPL11.1 Gene in Occult Macular Dystrophy Patients Associated with a Depolarizing Pattern of Focal Macular ERG. Shuhei Kameya1, T. Kuboto1, H. Takahashi1, Y. Goto-Fukauhara1, T. Igarashi1, K. Yamaki1, A. Mizota1, Y. Miyake1, H. Takahashi1. 1Ophthalmology, Chiba Hokusoh Hosp Nippon Med Sch, Inzai, Japan; 2Ophthalmology, Nippon Medical School, Bunkyo-Ku, Japan; 3Ophthalmology, Teikyo University, Itabashi-ku, Japan; 4Ophthalmology, National Institute of Sensory Organs, National Hospital Organization Tokyo Medical Center, Tokyo, Japan; 5Aichi Medical University, Aichi-gun, Japan.

5693 — A108 Cortical Impact of Genetic Retinal Degeneration of Ganglion Cell Origin and With Early Visual Loss. Catarina A. Mateus1, A.A. Reis1, J. Castelhano1, E. Silva1, M. Castelo-Branco2. 1Visual Neuroscience, IBIL-Faculty of Med-Univ of Coimbra, Coimbra, Portugal; 2Ophthalmology, University Hospital Coimbra, Coimbra, Portugal.

5694 — A109 Phenotypic Characterization in Two Patients with Identified Rhodopsin Gene Mutation: Impact of Retinal Degeneration on Cortical Structure. Andrea C. Pereira1, C. Mateus1, A. Reis1, B. Quendera1, S. Ferreira1, M. Almeida1, E. Silva1, M. Castelo-Branco2. 1Visual Neuroscience Laboratory, IBIL-Faculty of Medicine-University of Coimbra, Coimbra, Portugal; 2Ophthalmology, University Hospital of Coimbra, Coimbra, Portugal; 3Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal.

5695 — A110 Environmental and Therapeutic Approaches to Limit the Consequences of Postnatal Hyperoxia. Allison L. Dorfman1, B. Campanaro1, K. Uy1, A. Polosa1, M. Djavari1, P. Wintermark2, S. Chemtob2, P. Lachapelle1, 1Ophthalmology, 2Neonatology, McGill University/ Montreal Children’s Hospital, Montreal, QC, Canada; 3Département de Sciences Biomédicales, Université de Montréal, Montreal, QC, Canada; 4Pediatrics & Pharmacology, Research Centre/ Ste. Justine Hospital, Montreal, QC, Canada.

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5697 — A112 Focal Macular Electoretinogram Elicited By Hemispheric Stimuli In Eyes With Branch Retinal Vein Occlusion. Shunsuke Yasuda1, S. Ueno1, C-H. Piao1, M. Kondo1,2, H. Terasaki.1 Ophthalmology, Nagoya Univ Graduate Sch of Med, Nagoya, Japan; 2Ophthalmology, Meie Univ Graduate Sch of Med, Tsu, Japan.


5699 — A114 Visual Impairment in Leber Hereditary Optic Neuropathy Carriers of the Same pedigree. Aldina A. Reis1,2, C. Mateus1, E. Silva1,2, M. Castelo-Branco1. Visual Neuroscience Laboratory, IBIL-Faculty of Med-Univ of Coimbra, Coimbra, Portugal; 2Ophthalmology, University Hospital of Coimbra, Coimbra, Portugal.


5702 — A117 Effects of Nicotine on Flicker ERGs: Application of DFT and T-Circle. Stefanie B. Varghese1, N. Naser1, T.P. Thanh1, K.T. Keyser1, E. Hartmann1,8, Vision Science, 2Optometry, 3Univ of Alabama at Birmingham, Birmingham, AL.

5703 — A118 The Characteristics Of Cone-driven Oscillatory Potentials In Human Electoretinogram. Bo Leif1, H. Bengt1, J. Yui1, Q. Li1. Ophthalmology, The First Affiliated Hospital of Chongqing Medical University, Chongqing, China; 2Ophthalmology, University of Florida, Gainesville, FL.


5705 — A120 Trichromatic And Dichromatic Electoretinograms Using A Chromatic-Achromatic Temporal Compound Stimulus. Neil R. Parry1, J.H. Murray1, A. Panourgas1, D.J. McKeefry1, B.B. Lee1, J.J. Kremers2.1 Vision Science Centre, Manchester Royal Eye Hospital, Manchester, United Kingdom; 2Optometry & Vis Sci, FLS, Univ of Manchester, Manchester, United Kingdom; ‘School of Optometry and Vision Science, University of Bradford, Bradford, United Kingdom; ‘Biological Sciences, SUNY College of Optometry, New York, NY; ‘Dept of Ophthalmology, University of Erlangen, Erlangen, Germany.

5706 — A121 Selerat Depression Depresses The Photopic ERG. Scott E. Brodie1, J.H. Francis1, B. Marr1, D.H. Abramson1. Ophthalmology, Mount Sinai School of Medicine, New York, NY; ‘Department of Ophthalmic Oncology, Memorial Sloan-Kettering Cancer Center, New York, NY.

5707 — A122 Reproducibility Of Visual Electrophysiology Recordings Between Laboratories: The Importance Of Regular Calibration. Richard P. Hagan1, K.J. Quinn1, L. Milner1, R.L. Robinson1, A.F. Taktak1, A.C. Fisher2,4. Department of Medical Physics & Clin Eng, Royal Liverpool Univ Hospital, Liverpool, United Kingdom; ‘Clinical Eye Research Centre, Royal Liverpool University Hospital, Liverpool, United Kingdom.

5708 — A123 Generation of Steady State Pattern Electoretinograms Explained by Convolution of Transient Responses. Jonathan A. Toft-Nielsen1, J. Bohorquez1, V. Porciatti1, O. Ozdamar1. Biomedical Engineering, University of Miami, Miami, FL; ‘Bacsim Palmer Eye Inst, Univ of Miami Miller Sch Med, Miami, FL.

5709 — A124 Temporal Interactions Between the b-wave and d-wave of the Human Electroretinogram. pan Shi, K.A. Godwin, P.J. DeMarco. Psychological and Brain Sciences, University of Louisville, Louisville, KY.

5710 — A125 Characterising Human L- and M-cone ERGs Using a Four Primary System. Declan J. McKeefry1, N.K. Challa1, J.H. Murray1, J.J. Kremers2, N.R. Parry1. Optometry, Bradford School of Optometry & Vision Science, Bradford, United Kingdom; ‘Electrophysiology, L.V.Prasad Eye Institute, Hyderabad, India; ‘Optometry & Vis Sci, FLS, Univ of Manchester, Manchester, United Kingdom; ‘Dept of Ophthalmology, University of Erlangen, Erlangen, Germany; ‘Vision Science Centre, Manchester Royal Eye Hospital, Manchester, United Kingdom.

5711 — A126 Clinical Verification of Input-Lag Correction for Comparison of pVEP signals acquired using CRT and TFT displays. Balazs L. Varsanyi1, B.V. Nagy1, A. Magyar1, A. Farkas1, J. Nemeth1. Department of Ophthalmology, Semmelweis University, Budapest, Hungary; ‘Experimental Psychology, University of Sao Paulo, Sao Paulo, Brazil.

5712 — A127 The Limited Ability Of Neurons In Visual Area 2 (v2) To Integrate Contour Elements Over Extended Space In Infant Macaque Monkeys. Bin Zhang1,2, G. Shef1, X. Tuo1, E.L. Smith1,2, J.M. Chino1. College of Optometry, Nova Southeastern University, Plantation, FL; ‘College of Optometry, University of Houston, Houston, TX.

5713 — A128 The Use of Optokinetic Response To Quantitatively Measure Visual Acuity in Adult Zebrafish. Peony C. Tam, P. Rassamdana, K. Dang, D. Cameron. Ophthalmology, Western University of Health Sciences, Pomona, CA.


5715 — A130 Mapping The Spatiotemporal (S-T) Domain And Gain Of Putative M- And P-dominated Limbs Of The Human Cortical Contrast Response Function (CRF) Using The Sweep Vep (svep). Russell D. Hamer1,2, G.S. Souza1,4, T.L. Cost1,2, B.D. Gomes1, L.C. Silva1,4, D.F. Ventura1,2. Departamento de Psicologia Experimental, Instituto de Psicologia, Sao Paulo, Brazil; ‘Smith-Kettlewell Eye Research Institute, San Francisco, CA; ‘Insituto de Ciencias Biologicas, Universidad Federal do Para, Belem, Brazil; ‘Nucleo de Medicina Tropical, Universidade Federal do Parã, Belem, Brazil.

5716 — A131 Topographic maps of VEP Elicited By Pseudorandom Stimulation With The Swept Parameter Technique. Keiko Momose. Faculty of Human Sciences, Waseda University, Tokorozawa, Japan.


5720 — A135  The Step VEP has a Consistent VA Relationship with Psychophysics for all VA, Age, and Aetiology and Increases the Completion Rate of Paediatric VA Assessment to 96%. Alison M. Mackay1,2. 1Medical Physics, Leeds Teaching Hospitals, Leeds, United Kingdom; 2Clinical Physics, Royal Hospital for Sick Children, Glasgow, United Kingdom.

5721 — A136  Corneal Dry-Responsive Neurons in the Trigeminal Nucleus Respond to Innocuous Cooling in the Rat. Ian D. Meng1, M. Karuso2. 1Biomedical Sciences, University of New England, Biddeford, ME; 2Oral Biological Sciences, Niigata University School of Dentistry, Niigata, Japan.


5723 — A138  Stimulus Timing-Dependent Synaptic Modification in Rat Visual Cortex Induced by Training Stimuli Paired with Postsynaptic Subthreshold Depolarizations. Xuefeng Shi1,2, K. Zhao1,2. 1Ped Ophthal & Strabismus, Tianjin Eye Institute and Hospital, Tianjin, China; 2Tianjin Key Laboratory of Ophthalmology and Visual Science, Tianjin, China.

5724 — A139  Measuring The Spatial And Temporal Dynamics Of FrONTAL Eye Field Receptive Fields. Matthew A. Smith1,2,3, J. Mayo1,2, M.A. Sommer4, A. DiTomasso4. 1Ophthalmology, Center for Neuroscience, 1University of Pittsburgh, Pittsburgh, PA; 2Neurobiology, Harvard Medical School, Boston, MA; 3Dept. of Biomedical Engineering and Center for Cog. Neurosci., Duke University, Durham, NC.

Hall B/C  A140-A152 Thursday, May 10, 2012, 8:30 AM-10:15 AM Visual Neurophysiology

515 Visual Electrophysiology in Disease and Drug Toxicity

Moderator: Carol A Westall, III

5725 — A140  Monitoring Of Patients On Hydroxychloroquine For At Least Five Years: A follow-up Of 21 Patients. Danielle Aman2, I. Ingster-Moati3, E. Albuissou1, C. Girard1, B. Delbosc1. 1Department of Ophthalmology, Orleans Hospital, Orleans, France; 2Ophthalmology, University Paris 7 Diderot, Necker Hospital, Paris, France; 3Biostatistics Department, University of Medicine, Vandoeuvre-lès-Nancy, France; 4Department of Ophthalmology, University Hospital, Besancon, France.

5726 — A141  Full-field Electroretinogram Changes In Patients In Therapy With Chloroquine And Hydroxychloroquine: Time and Dose Effect. Giulio Ruberto1A, C. Tinelli1A, P. Piccinni1A, L. Bossolesi1A, M. Raimondi1A. 1Institute of Medical Sciences, Allergan Inc, Irvine, CA.

5727 — A142  Correlations Between Visual Acuity (VA), Humphrey Visual Fields (HVF), And Multifocal Electroretinogram (mfERG) In Patients With Retinal Toxicity Secondary To Hydroxychloroquine (Plaquenil) Therapy (PT). Inna V. Glybina. Ophthalmology, Wayne State Univ/Kresge Eye Inst, Detroit, MI.

5728 — A143  Ganzfeld-electroretinogram In Patients With Coronary Heart Disease. Katja Goebel1, A. Reffker1, H. Drexler1, C. Erb1,2. 1Ophthalmology, Schloss Park Clinic, Berlin, Germany; 2Ophthalmology, Hannover Medical School, Hannover, Germany; 3Eye clinic, Wittenbergplatz, Berlin, Germany.

5729 — A144  Electrophysiology And Fluorescein And Indocyanine Green Angiography In Susac Syndrome. Julia M. Promesberger1A, A. F. Alex1A, I. Humez2, A. Kreller2, J-M. Dör2, N. Eter1. 1Ophthalmology, 2University hospital of Muenster, Muenster, Germany; 3NeuroCure Clinical Research Center, Charité, University hospital of Berlin, Berlin, Germany.

5730 — A145  Flash Electroretinogram In Children With Mitochondrial Diseases. Frederic Nicos1A, A. Bron1A, C. Creuzot-Garcher1, F. Renaud2. 1Ophthalmology, CHU Dijon, Dijon, France; 2Neurophysiology Unit, Hôpital Armand Trousseau, Paris, France.

5731 — A146  Flicker Electroretinogram - Temporal Response Function In Children On Vigabatrin (VGB). Aparna Raghuram1A, O. Kolawole1, R.M. Hansen2, A.B. Fulton1. 1Department of Ophthalmology, Childrens Hospital Boston, Boston, MA; 2Harvard Medical School, Boston, MA; 3Northeastern University, Boston, MA.

5732 — A147  Seizure Related Retinal Dysfunction Is Not Associated With Increased Risk Of Retinal Toxicity With Vigabatrin. Aparnavalli Kumarappah1, T. M. McFarlane2, T. Wright1, C. Westall1. 1Institute of Medical Sciences, University of Toronto, Toronto, ON, Canada; 2Ophthalmology and Vision Sciences, Hospital for Sick Children, Toronto, ON, Canada. *CR

5733 — A148  Electroretinogram Anomalies In Psychiatric Disorders: The Possible Implication Of GSK3. Joelle Lavoie1, J-M. Beaulieu1, M. Hebert1. 1CRULRG, Quebec, QC, Canada; 2Ophthalmology, Laval University, Quebec, QC, Canada.

5734 — A149  Habitation of the Ganglion Cell Response to Sustained Pattern Stimulation: Reduced by Multiple Sclerosis. Antoello Fadda1, A. Di Renzo1, F. Martelli1, M. Marangoni1, A. Batocchi1,2, D. Giannini1, B. Falsini1. 1Technologies and Health, Istituto Superiore di Sanita, Roma, Italy; 2Ophthalmology, GB Bietti Eye Foundation-IRCCS, Roma, Italy; 3Ophthalmology, Neuology, Catholic University, Rome, Italy.

5735 — A150  Effects of Nicotine on Processing in the Visual Pathways. Naser T. Naser1,2, V.M. Zemon1, S.B. Varghese1, K.T. Keyser3, E. Hartmann4,5. 1Vision Science, 2Department of Optometry, University of Alabama at Birmingham, Birmingham, AL; 3Ferkau Grad School of Psychology, Yeshiva University, Bronx, NY. *CR

5736 — A151  Evaluation of visual function in patients with Clinical Isolated Syndrome using multifocal visual evoked potentials and optic coherence tomography. Roman Blanco1, C. Perez-Rico1, L. Rubio1, M. Roldan1, L. Ayuso1. 1Departamento de Oftalmologia, HUGU, Sescam/UAH, Spain; 2Departamento de Oftalmologia, Universidad Alcalá, UAH, Spain; 3Departamento de Neurologia, Hospital Principe de Asturias, Alcalá de Henares (Madrid), Spain; 4Departamento de Oftalmología, Universidad de Alcalá, Alcalá de Henares (Madrid), Spain.

5737 — A152  Transient and Steady-State Short-Duration Visual Evoked Potential (VEP) Battery in Children with and without Autism Spectrum Disorder. Paige M. Weinger1, V.M. Zemon1, V. Nunez1, T. Nakatani1, G. Hu1, P. Butler1, J. Gordon1. 1Ferkau Grad School of Psychology, Yeshiva University, Bronx, NY; 2Psychology Department, Hunter College, New York, NY; 3Verisic Corp., Raritan, NJ; 4Nathan Kline Institute for Psychiatric Research, Orangeburg, NY. *CR

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures —  Refer to Program Number in the Clinical Trial (CT) Registration Index —  Travel Grant Awardee 357
5738 – Thursday – Posters

Thursday, May 10, 2012, 8:30 AM-10:15 AM
Clinical & Epidemiologic Research

516 Diabetic Retinopathy Epidemiology

**Moderator: Robin D Hamilton**

5738 — A256  Efficacy of Diabetic Retinopathy Screening for Patients Who Were at High-Risk for Sight-Threatening Retinopathy in a County Healthcare System. *Glen Y. Ozawa*, T. Litvin*, J.A. Cuadros*, S. Ramaswamy*, M.S. Muller*, A.E. Elsner*, T.J. Gast†. UC Berkeley School of Optometry, Berkeley, CA; †School of Optometry, Indiana University, Bloomington, IN; ‡AION Imaging, LLC, Bloomington, IN. *CR


5740 — A258  Cognitive impairment (CI) does not correlate with severity of diabetic retinopathy (DR) in people with Type 2 Diabetes (T2D). *Roxanne R. Crosby-Nwaobi*, A. Forbes*, S. Sivaprasad*. †King’s College London, London, United Kingdom; ‡Ophthalmology, King’s College Hospital, London, London, United Kingdom.

5741 — A259  Diabetic Retinopathy Inpatient Study. *Jessica J. Kovarik*, L.A. Willard*, E.L. Wasnau†. †Ophthalmology, UPMC Eye Center, Eye and Ear Institute, University of Pittsburgh School of Medicine, Pittsburgh, PA; ‡Medicine, UPMC Mercy Hospital, Pittsburgh, PA.

5742 — A260  How much does glycated hemoglobin $A_1C$ explain the risk of diabetic retinopathy in persons with type 2 diabetes? The Diabetes Management Project (DMP). *Jing Xie*, S. Selvarajah*, R. Kawasaki†, T. Niclaone*, S. Sammangusandram*, J. Wang†, T. Wong*†, E. Lamoureux*†. †Department of Ophthalmology, Centre for Eye Research Australia, East Melbourne, Australia; ‡Department of Ophthalmology, Centre for Vision Research, Sydney, Australia; †National University of Singapore, Singapore Eye Research Institute, Singapore, Singapore.

5743 — A261  Telemedicine-based Digital Retinal Imaging Improves Diabetic Retinopathy Screening Compliance. *Seema Garg*, B. King*, P. Jani†, S. Weir†, T. Karnowski†, S. Li†, E. Chaum†. †Dept of Ophthalmology, University of North Carolina, Chapel Hill, NC; ‡Oak Ridge National Laboratory, Memphis, TN; †Hamilton Eye Institute, University of Memphis, Memphis, TN. *CR


5746 — A264  An Eduttainment Tool for Increased Compliance with DR Screening and Management, Part 2: Efficacy Study. *Anne M. Edwards*, G. Zamora*, A. Mattiella†, P. Soliz†. †VisionQuest Biomedical LLC, Albuquerque, NM; ‡The Fotonovela Production Company, Santa Fe, NM. *CR


5748 — A266  Diabetes and Diabetic Retinopathy in an Australian Cardiac Population: the Australian Heart Eye Study. *Adam J. Plant*, G. Bartusky†, J. Chiha†. †Ophthalmology, Centre for Vision Research, Sydney, Australia; ‡University of Sydney, Sydney, Australia; †Cardiology, Westmead Hospital, Sydney, Australia.

5749 — A267  Associations Between Diabetic Retinopathy and Plasma Levels of High-Sensitive C-Reactive Protein or Von Willebrand Factor in Long-Term Type 1 Diabetic Patients. *Jakob Grauslund*, J.V. Laursen*, S.S. Hoffmann†, A. Thiagalingam†, P. Kovoor†, P. Mitchell†. †Ophthalmology, Centre for Vision Research, Sydney, Australia; ‡University of Sydney, Sydney, Australia; †Cardiology, Westmead Hospital, Sydney, Australia.


5751 — A269  Risk Factors for Prevalence, Incidence and Progression of Diabetic Retinopathy Among Non-insulin Dependent Diabetes in Taiwan. *Shiwa-Juan Sheu*, W-L. Ho†, J-Y. Lin†, N-C. Liu†, S-C. Chen†, Y-H. Horng†, H-C. Lam†. †Department of Ophthalmology, Department of Endocrinology, ‡Kaohsiung Veterans Gen Hospital, Kaohsiung, Taiwan; †Ophthalmology, National Yang Ming University, Taipei, Taiwan.

5752 — A270  The Incidence Of Vitrectomy For The Complications Of Proliferative Diabetic Retinopathy. *David H. Steel*, D. Vaideanu†, S.S. Sandhu†. †Sunderland Eye Inflammatory, Sunderland, United Kingdom; ‡Institute of Genetic Medicine, University of Newcastle, Newcastle Upon Tyne, United Kingdom; †Medical Retina Unit, Centre for Eye Research Australia, Melbourne, Australia.

5753 — A271  Risk factors Associated with Progression from Nonproliferative to Proliferative Diabetic Retinopathy. *Kristen H. Nwanyanwa*, N. Taiwar†, T.W. Gardner†, J.S. Wrobel†, J.D. Stein†. †Ophthalmology and Visual Sciences, ‡Internal Medicine, †University of Michigan, Ann Arbor, MI.

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Hall B/C  A272-A301

Thursday, May 10, 2012, 8:30 AM-10:15 AM
Retinal Cell Biology / Retina

517 Vascular Mechanisms in Diabetic Retinopathy

**Moderator: Nader Sheibani**

5754 — A272  Fractal-Based Oscillation of Venous Density Within the Macula During Progression of Diabetic Retinopathy. *Patricia A. Parsons-Wingerter*, K. Radhakrishnan†. †Research & Technology Directorate, John Glenn NASA Research Center, Cleveland, OH; ‡Dept. of Pathology/ Cancer Center, SOM, University of New Mexico, Albuquerque, NM.

5755 — A273  (Pro)renin Receptor Is Associated With Angiogenic Activity In Proliferative Diabetic Retinopathy. *Atsushi Kanda*, K. Noda†, W. Saito†, S. Ishida†. †Department of Ophthalmology, ‡Laboratory of Ocular Cell Biology & Visual Science, †Hokkaido Univ Grad Sch of Med, Sapporo, Japan.


5757 — A275  Influence of Diabetic Vitreous on the Endothelial Cells Activity, the Role of Anti-VEGF and Matrix Components. *Yousef Yafai*, C. Joachmann, W. Eichler, P. Wiedemann. †Eye Hospital, University of Leipzig, Leipzig, Germany.

Angiopoietin-like Protein 6 (ANGPTL6) has Angiogenic Activity on Retinal Endothelial Cells under High Glucose Concentrations. Hirohiko Yokouchi, T. Oshii, S. Yamamoto. Ophthalmology, Chiba Univ Graduate School of Med, Chiba, Japan.

Role of Nrf2 in the regulation of diabetic retinopathy. Junsong Gong1, Z. Xu2, Y. Wei1, H. Huang2, C. Eberhart1, R. Thimmmulapp2, S. Biswal1, E.J. Duhl1. Wilmer Eye Institute, Johns Hopkins Univ School of Medicine, Baltimore, MD; 2Bloomberg School of Public Health, Baltimore, MD.

Increased Oxygen Saturation In Retinal Vessels Of Patients With Diabetic Retinopathy Requiring Treatment. Christina M. Joergensen1, T. Bek2, S. Hardarson1. 1Department of Ophthalmology, Aarhus University Hospital, Aarhus C, Denmark; 2Department of Ophthalmology, University of Iceland/Landspitali, University Hospital, Reykjavik, Iceland.

Thioredoxin Interacting Protein Is Required For S-glutathionylation And Redox Regulation Of VEGF Angiogenic Signal. Mohammed A. Abdelslaid2, A.B. El-Remessy1A. 1Centre for Clinical & Experimental Therapeutics, University of Georgia, Augusta, GA; 2Department of Ophthalmology, University of Ulm, Ulm, Germany.

Polymamines Contribute To Diabetic Retinal Edema. Bruce A. Berkowitz1, L. Hawel, III2, C. Byus3, D.P. Bissig1, R. Roberts1,2. 1Anatomy/Cell Biol & Ophthalmal, 2Anatomy & Cell Biol, Wayne State Univ Sch of Med, Detroit, MI; 3University of California, Riverside, Riverside, CA; 2Anatomy and Cell Biology, Wayne State Univ School of Med, Detroit, MI.

Overexpression of IL1 Receptor Antagonist In the Rat Retina by Retinotransferred Gene Therapy Prevents Capillary Loss In Experimental Diabetes. Chiara Gerhardinger1, Y. Liu2, Z. Dagher1. 1Scheep's Eye Research Institute Massachusetts Eye and Ear, Boston, MA; 2Harvard Medical School, Boston, MA.

Lipoprotein-associated Phospholipase Inhibition Regulates Retinal Vasoparamecibility During Experimental Diabetes. Alan W. Stitt1, P. Canning1, P.L. Luther1, J.V. Glenn1, L-D Allen1, V. Prise1, P.S. Adamson1. 1Centre for Vision & Visual Science, Queens University Belfast, Belfast, United Kingdom; 2Pathology, UCL Institute of Ophthalmology, London, United Kingdom; 3Ophthalmology Discovery Performance Unit, GlaxoSmithKline, Stevenage, United Kingdom. *CR

HFD-induced Retinal Microvascular Degeneration: Suggested Role Of Thioredoxin Interacting Protein (TXNIP). Islam N. Mohamed2, S. Hafez3, M. Abdelslaid2, S. Matraagoon1, B. Pillai1, A. Ergul1, J.D. Imig2, A.B. El-Remessy1,2. 1Clinical and Experimental Therapeutics, University of Georgia, Augusta, GA; 2Vision Discovery Institute, Physiology, Georgia Health Sciences University, Augusta, GA; 3Pharmacology and Toxicology, Medical College of Wisconsin, Milwaukee, WI.

Comparison of the Effect of Streptozotocin (STZ)-Induced Diabetic Retinopathy on the Early Electroretinogram (ERG) of Sprague Dawley and Long Evans Rats. Mark Zevina. Ocular And Neuroscience, Charles River Laboratories - Preclinical Services, Senneville, QC, Canada. *CR

Chemokine Mediated Monocyte Trafficking into the Retina: Role of Inflammation in Diabetic Retinopathy. Arup Das4, S. Rangasamy6, P. McGuire5. 1MSC10-5106 Surgery, 2Cell Biology & Physiology, Univ of New Mexico Sch of Med, Albuquerque, NM.

Neural And Vascular Gene Expression Changes In The Diabetic Rat Retina. Jennifer C. Lau1A, R.A. Linsenmeier1B, J.R. Moskal1C, A. Ergul1,2B, J.D. Imig3, M.P. Martin. 1Chemical & Biological Engineering, 2Biomedical Engineering and Neurobiology, 3Center for Molecular & Integrative Physiology, University of Michigan, Ann Arbor, MI.

Oxidative Stress Induces Apoptosis and Acellular Capillary Formation Via Activation of P75(NTR). Azza B. El-Remessy1, M.M. Al-Gayyar1, S. Matraagoon1, H. Saragovi1. 1Clin & Experimental Therapeutics, University of Georgia, Augusta, GA; 2Pharmacology, McGill Univ - Jewish General Hosp, Montreal, QC, Canada.

Vitreo Biomarker Changes In the Progression From Nonproliferative To Proliferative Diabetic Retinopathy. Stephanie M. Ecker, A.O. Igbire, J.C. Hines, B.M. Glaser. Ocular Proteomics, The National Retina Institute, Towson, MD. *CR

Intraocular Anti-vegf Therapy Blocks Inflammatory Cell Infiltration And Re-entry Into The Circulation In Retinal Angiogenesis. Shintaro Nakao1, M. Arima1, K. Ishikawa1, R. Kohno1, S. Kawahara1, M. Miyazaki1, S. Yoshida1, H. Enaida1, T. Kono1, T. Ishibashi1. 1Department of Ophthalmology, Kyushu University, Fukuoka, Japan; 2Ophthalmology, Fukuoka University Chikusho Hospital, Chikushino, Japan.

Vascular Alteration And Lipids Accumulation In The Retina And Choroid Of Non-insulin-dependent Diabetic Goto-Kakizaki Rats. Elivre Vaucher1, M. Pouliot1, T.M. Boutin1, O. Fontaine1, R. Couture1. 1Optometry, 2Physiology, University of Montreal, Montreal, QC, Canada.
5782 — A300  Loss of Neuronal Support to the Bone Marrow BM Promotes Increased Generation Of (C-C Motif) Receptor 2 (CCR2) Monocytes And Reduced Endothelial Progenitors (EPCs): Implications For Diabetic Retinopathy (DR) Pathogenesis. Maria B. Grant¹, A. Bhatwadekar², P. Hu¹, S. Haza³, S. Caballero³, S. Mohr², S. F. Abcouwer⁴, D.R. Saban, T. Chang-Ling⁵. ¹Pharmacology and Therapeutics, Florida University of, Gainesville, FL; ²Department of Anatomy, University of Sydney, Sydney, Australia; ³Department of Physiology, ³Physiology, ¹Michigan State University, East Lansing, MI; ⁴Ophthalmology & Visual Science, Univ of Michigan Kellogg Eye Ctr, Ann Arbor, MI; ⁵Schepens Eye Research Institute, Harvard Medical School, Boston, MA; ⁶Anatomy, University of Sydney, Sydney, Australia.

5783 — A301  Caspase-14: A Novel Caspase with Potential Role in Diabetic Retinopathy. Sylvia Megyeri¹, S. Ahmad¹, S. Hsu², Z. Gure³, E.S. Shin², N. Sheth¹, M. Al-Shahrawey¹,²,³. ¹Oral Biology and Anatomy, ¹Ophthalmology, ¹Georgia Health Sciences University, Augusta, GA; ²Ophthalmology and Visual Sciences, University of Wisconsin, Madison, WI.

Hall B/C  A338-A370

Thursday, May 10, 2012, 8:30 AM-10:15 AM

Retina

518 Retinal Detachment II

Moderator: Cesare Mariotti

5784 — A338  Primary Repair of Rhegmatogenous Retinal Detachment with 23-Gauge Transconjunctival Vitrectomy. Ricardo Valdes¹, O. Ramirez², P. Ochoa³, T. Trujillo³. ¹Clinica Ver Bien, Pereira, Risaralda, Colombia; ²Clinica Ver Bien, Armenia, Quindio, Colombia.


5786 — A340  The Outcome of vitrectomy for chronic diabetic tractional retinal detachment. Muneea A. Abuhamja¹, H.N. Al-Shamsi², H. Al-Dhib³, N.G. Ghazzi¹. ¹Ophthalmology Residency Program, King Saud University, Riyadh, Saudi Arabia; ²Vitreoretina, King Khalid Eye Specialist Hospital, Riyadh, Saudi Arabia.

5787 — A341  Evaluation of Retinectomy in the Treatment of Severe Retinal Detachment. Thais S. Menders¹, A.M. Gomez¹, H.V. Passos¹, A. Baptista¹. ¹Ophthalmology, Suel Abujama Institute, Sao Paulo, Brazil; ²Ophthalmology, University of Sao Paulo, Sao Paulo, Brazil.


5791 — A345  Triamcinolone-assisted Intraretinal Limiting Membrane Peeling During Primary Rhegmatogenous Retinal Detachment Repair Reduces Postoperative Macular Pucker Formation. Rajesh C. Rao¹, K.J. Blinder¹, G.K. Shah⁴. ¹Ophthalmology and Visual Sciences, Washington University School of Medicine, The Retina Institute, Saint Louis, MO; ²The Retina Institute, Saint Louis, MO.

5792 — A346  Siluron 2000 Novel-Generation Silicone Oil: Proof of Concept and One Year Clinical Results. Theodor Stapler¹, L. Konstantinidis¹, D.S. Wong¹. ¹St Paul’s Eye Unit, Royal Liverpool University Hospital, Liverpool, United Kingdom; ²The Eye Institute, The University of Hong Kong, Hong Kong.

5793 — A347  Air as Tamponade for Retinal Detachments. Aranzazu Mateo Montoya¹, M.A. de S. Cúarc². ¹Clinique de Montchoisi, Lausanne, Switzerland; ²Ophthalmology, Clinic of Montchoisi, Lausanne, Switzerland.

5794 — A348  Extramacular-hole Drainage Of Subretinal Fluid In Macular Hole Retinal Detachment. Ji Eun E. Lee¹, H. Jeon¹, I. Byon¹, S. Park¹, B. Oum¹. Ophthalmology, Pusan National Univ Hospital, Busan, Republic of Korea.

5795 — A349  Hole Position In Rhegmatogenous Retinal Detachment: A Analysis Of Mustard, A Retrospective Interventional Case Series Of 4325 Participants In Relation To The Lincoffrules¹, Ulrich Thelen¹, H. Gerding¹. ¹Private Practice, Munster, Germany; ²Clinic Pallas, Osten, Germany.

5796 — A350  Retinal Detachment from Guttering also a Problem after Vitrectomy. Milad Hakimbash¹, P. Amini¹, A. Khatibi¹, M.H. Goldbaum¹. ¹Ophthalmology, Univ of California, San Diego, La Jolla, CA; ²Ophthalmology, Univ of California-San Diego, La Jolla, CA.

5797 — A351  Significant Compliance Improvement For Patients Lying Postoperatively In “Face-down-position” After Vitrectomy And Gas Tamponade. Henrik F. Schaefer, P. Singh, M. Koss, F. Frank. Retina department, Johann Wolfgang Goethe-University, Frankfurt am Main, Germany.

5798 — A352  The Effect Of Retinal Detachment On Retinal Oxygenation. Alexander Kynnel, I.II, S. Traustason¹, H. Hajari¹, J. Kililaard³, E. Stefansson³, M. La cour³. ¹Ophthalmology, Gulostrup University Hospital, Glostrup, Denmark; ²Department of Ophthalmology, Lunds Hospital University Hospital, Reykjavik, Iceland.

5799 — A353  Pockets of Subretinal Fluid after Retinal Reattachment Surgery: New Insights with SD-OCT. John B. Miller¹, R.C. Rao², N. Choudhry¹, D.M. Wu¹, G.K. Shah¹, D. Vavvat¹, S. Mukai¹, D. Elliott¹. ¹Harvard Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; ²Department of Ophthalmology and Visual Sciences, Washington University School of Medicine/The Retina Institute, St. Louis, MO; ³Doheny Eye Institute, University of Southern California, Los Angeles, CA; ⁴Barnes Retina Institute, Town and Country, MO.

5800 — A354  Macular Effects of Silicone Oil Tamponade: Optical Coherence Tomography Findings During and After Silicone Oil Removal. Danielle M. Lo, L. Olmos, A.A. Fawzi. Ophthalmology, Doheny Eye Institute, Keck School of Medicine, University of Southern Ca, CA.


5804 — A358  Autofluorescence Image Intensity Segmentation And Analysis Of Macular Geometry Indices Against Microperimetry And Sdoct Ultra Structural Findings In Patients With Successfully Repaired Rhegmatogenous Retinal Detachments. Marco F. Vieira¹, M. Falcao², P. De Carvalho¹, A. Sousa³, P. Faria³, N. Gomes³, E. Brandão³, F. Falcão-Reis². ¹Ophthalmology, Hospital S. João Porto, Porto, Portugal; ²Ophthalmology, Hospital S. Joao Porto, Portugal.

5806 — A360 Retinal Cell Layer Measurements in Patients After Successful Macula-off Retinal Detachment Repair and in Healthy Controls using a new OCT Sub-segmentation Algorithm. Marcel N. Menke1, J.H. Koval1, P. Dufour1, U.E. Wolf-Schnurrbusch1, L. Ceklic1, S. Wolf1. 1Dept of Ophthalmology, University of Bern, Bern, Switzerland; 2Ophthalmic Technologies, ARTORG Center, Bern, Switzerland.

5807 — A361 Foveal Thickness After Surgery In Eyes With Retinal Detachment. gaku terauchi1, C.S. Matsutomo1, E. Watanabe2, K. Shinoda3, H. Matsumoto1, T. Kondo4, A. Mizota1. 1Ophthalmology, Teikyo University School of Medicine, Tokyo, Japan; 2Ophthalmology, Teikyo University, Itabashi-ku, Japan; 3Matsumoto Eye Clinic, Tokushima, Japan; 4Teikyo University, Tokyo, Japan; 5Ophthalmology, University Of West Verginia, Morgantown, WV.

5808 — A362 Retinal Detachment Caused By Giant Tear. Mounir Benzerroug1, B. Chanaoui2, O. Genevois2, I. Ingster-Moati3. 1Ophthalmology, Hospital Robert Debre, Montrouge, France; 2Ophthalmology, Rouen University Hospital, Amiens, France; 3Ophthalmology, Kyushu Medical School, Fukuoka, Japan; 4Ophthalmology, Wills Eye Hospital, Philadelphia, PA.


5811 — A365 Characteristics and Outcomes of Rhexmagetous Retinal Detachment in Stickler Syndrome at a Tertiary Eye Care Centre in Saudi Arabia. Saeed T. Alshahrani1,4, S. Alrashed4, N.G. Ghazi4. 1Ophthalmology, Amiens University Hospital, Amiens, France; 2Ophthalmology, Rouen University Hospital, Rouen, France.


5813 — A367 Use of Silicone Oil for Complex Retinal Detachment in Pediatric Population. Krishnapriya kalyan1, P. Enami1, D. Shah1, K. Gorakani1, M.A. Zarbin1, N. Bhagat1. 1Ophthalmology, Robert Wood Johnson Medical School, Piscataway, NJ; 2Ophthalmology, New Jersey Medical School, Newark, NJ; 3Ophthalmology & Visual Science, UMDNJ-New Jersey Medical School, Newark, NJ; 4Ophthalmology, IOVS-New Jersey Med School, Newark, NJ.


5818 — A438 In vivo Retinal Laser Lesion Formation with Simultaneous Adaptive Optics Enhanced Confocal Scanning Laser Ophthalmoscopy (AOcSLO) and Spectral Domain Optical Coherence Imaging (AO-SDOCT). Ginger M. Pooko1, J.W. Oliver1, C.A. Harbert1, G.D. Noojin1, K.J. Schuster1, A. Shingledecker1, D.J. Stolarke1. 1Air Force Research Laboratory, Fort Sam Houston, TX; 2Biomedical Engineering, The University of Texas at Austin, Austin, TX.


5820 — A440 Laser Titration Algorithm For Minimally-traumatic, Sub-Visible And Sub-lethal Retinal Phototherapies. Daniel Lavinsky1,2,3, S. Sramek1, Y. Mandel1,2,3, P. Huie1,4, D.V. Pulanker1,2,3,4. 1Ophthalmology, 2Hansen Experimental Physics Laboratory, 3Stanford University, Stanford, CA; 4Topcon Medical Laser Systems, Santa Clara, CA.

5821 — A441 Development Of A Simulated Model For Battlefield Retinal Laser Injury. Sher A. Aslam1, M. Singh1, P. Charbel Issa1, W. Davies1, M. McClements1, R. Scott1, R.E. MacLaren1. 1Nuffield Laboratory of Ophthalmology, University of Oxford, Oxford, United Kingdom; 2Royal Centre for Defence Medicine Institute of Research & Development, Birmingham, United Kingdom.


5823 — A443 Image Guided Navigated Retinal Laser Treatments Using Multiple Image Modalities. Igor Kozak1, J. Chhablani1, G. Bartessulli1, D-U.G. Bartsch1, W.R. Freeman1. 1Ophthalmology, University of California San Diego, La Jolla, CA; 2Ophthalmology, Shiley Eye Center, UCSD, La Jolla, CA; 3Ophthalmology, Univ of California-San Diego, La Jolla, CA; 4Ophthalmology, UCSD Jacobs Retina Center, La Jolla, CA.

5824 — A444 Nd-yag Laser Arteriometry For Central Retinal Artery Occlusion (crao). Clayton Scanlon1, M. Currie1, A. Grant3, E.N. Cetin1, L. Akdaman1. 1Ophthalmology, Saint Louis University Eye Institute, Saint Louis, MO; 2Ophthalmology, Washington University, Saint Louis, MO.

5825 — A445 Effects of LMP7 Subunit Knockout Immunoproteasome on the Laser-Induced Chorioretinal Neovascular Model in Mice. Justin C. Koh1, A.A. Rageh1, D.A. Ferrington1, S.R. Montezuma2. 1Ophthalmology, University of Minnesota, Minneapolis, MN.

5826 — A446 Impact of Endothelial-specific NF-kB Signaling on Choroidal Neovascularization. Sasoka Zandi1, S. Nakao1, D. Sun1, R. Schmidt-Ullrich1, A. Schering1, F. Hafezi2, A. Hafezi-Moghaddam1. 1Radiology, Brigham and Women’s Hospital, Harvard Medical School, Boston, MA; 2Ophthalmology, Geneva University Hospitals, Geneva, Switzerland; 3Ophthalmology, Kyushu University, Fukuoka, Japan; 4Ophthalmology, The Second Hosp of Harbin Med Univ, Harbin, China; 5Signal Transduction in Tumor Cells, Max-Delbrücker-Center for Molecular Medicine, Berlin, Germany.

5827 — A447 An Angiogenic Role Of Adrenomedullin In Choroidal Neovascularization. Susumu Sakimoto1, M. Kamei1, H. Kidoya1, H. Naito1, N. Matsunara1, M. Suzuki1, H. Sakaguchi1, N. Takakura1, K. Ogura2, N. Matsumura1, M. Suzuki1, H. Sakaguchi1, N. Takakura1, K. Ogura2, N. Matsumura1, M. Suzuki1, H. Sakaguchi1.
5828 — A448 Implication of GPx4 in Choroidal Neovascularization. Murilo F. Roggsta1, T. Ueta1, I. Hiorotaka1, T. Inoue1, Y. Tamaki1, Y. Yanagi1.
1Ophthalmology, University of Tokyo, Tokyo, Japan; 2Pharmaceutical Sciences, Kitasato University, Tokyo, Japan.

5829 — A449 Different Mechanisms in Regulation of Laser Induced CNV by Arresten. Sudhakar A. Yakanttii1, V. Gundii1, R.K. Verma1, C.S. Boosanii1. 1‘Genetics’ Retinal Cell Signaling, Boys Town Nt’l Research Hospital, Omaha, NE; 2‘Genetics, Boys Town Nt’l Research Hospital, Omaha, NE.

5830 — A450 Topical NDP1 Promotes Microglia Ramification in Experimental CNV. Kristopher G. Sheets1A, W.C. Gordon1B, N.G. Bazan1B. 1Neuroscience Center, 2Ophthalmology & Neuroscience Center, 1LSU Health Sciences Center, New Orleans, LA.

5831 — A451 Selective Cre/lox Fli-1 Ablation In RPE Induces CNV: A Novel Transgenic Murine CNV Model. Ling Lau1, T. Olsen1, X. Zhang1, S. Das1, H. Uehara1, N. Singh1, T. Miyai1, B. Archer1, Y.Z. Le2, B.K. Ambati1. 1Moran Eye Center, Salt Lake City, UT; 2Department of Ophthalmology, The 306th Hospital of PLA, Beijing, China; 3Department of Medicine and Harold Hamm Oklahoma Diabetes Center, University of Oklahoma Health Sciences Center, Oklahoma City, OK.


5835 — A455 Long Term Results of Photodynamic Therapy in Patients with Choroidal Neovascularization Secondary to Age Related Macular Degeneration. Amy Chawla1, J.T. Thompson1, R.J. Giardia1. 1Ophthalmology, University of Maryland, Baltimore, MD; 2Ophthalmology, Retina Specialist, Baltimore, MD. *CR

5836 — A456 Functional Recovery After Experimental RPE Debridement, mERG Studies in a Porcine Model. Jens F. Kullgaard2, N. Sørensen1, M.V. Kjær1, N. Lasson1, J.U. Prause1, M.D. de la Cour1. 1Dept of Ophthalmology, Rigshospitalet, Copenhagen, Denmark; 2Dept. of Ophthalmology, Glorup Copenhagen Univ. Hospital, Glorup, Denmark; 3Eye Pathology Inst, Copenhagen University, Copenhagen, Denmark.

5837 — A457 RPE Tears: An in silico Perspective. Garth G. Whelan, A. Shrinifard, J.A. Glazier. Physics, Bioocomplexity Institute, Bloomington, IN.

5838 — A458 Transplantation of Human ESC-derived RPE into Rodent Models of Retinal Degeneration. Madalena Cardio1, Y. Zhu1, T. Benker1, T. Kurth1, T. Munch1, E. Tanaka1, M. Ader1. 1Center for Regenerative Therapies Dresden, Dresden, Germany; 2Werner Reichardt Center for Integrative Neuroscience, Tubingen, Germany.

5839 — A459 Transplantation of Human Embryonic Stem Cell-Derived Retinal Cells into the Subretinal Space of a Non-Human Primate. Jennifer R. Chao1, D.A. Lamb1, T. Klesert1, K. Sternhagen1, R. Taylor1, A. Yanagida1, M. Neitz1, J. Neitz1, R.K. Wang1B, T.A. Reh1C. 1Ophthalmology, 2Bioengineering, 3Dept of Biological Structure, 4Dept of Ophthalmology, 5Brain Institute and School of Advanced Manufacturing, 6Life and Biophotonics Amsterdam, Department of Physics and Astronomy, VU University, Amsterdam, The Netherlands. *CR

5840 — A460 Characteristics Of Rat Iris Pigment Epithelial Cells Cultured On Modified Expanded-polytetrafluoroethylene (ePTFE) Substrates. Shen Nian1, C.M. Sheridan1, V. Kearns2, R. Williams2, D. Wong2, K. Yaqi1, A. Bachu2, A.C. Lo3, W.W. Law3. 1Eye Institute, 2Research Centre of Heart, Brain, Hormone and Healthy Aging, 3The University of Hong Kong, Hong Kong, Hong Kong; 4Eye and Vision Science, University of Liverpool, Liverpool, United Kingdom; 5Mawson Institute and School of Advanced Manufacturing, University of South Australia, Mawson Lakes, Australia.

5841 — A461 Cell-based Therapy In A Mouse Model Of Leber Congenital Amaurosis. Yi-Sheng Chang1, W. McIntosh Ambrose1, C. Lin1, H. Qian1, T. Li1, T. Cogliati1, A. Sbarro1. 1National Eye Institute, National Institutes of Health, Bethesda, MD; 2Department of Ophthalmology, National Cheng Kung University, Taiwan, Taiwan.


5844 — A464 Repeated Ab-Externo Catheterization of the Sub-retinal Space Using a Microcatheter for Targeted Delivery of a Cell Therapy Product in a Pig Model. Marc D. de Smet1, S. Wyse1, M. Vezina1, S. Conston1, C. Sadows1, S.H. Popma1. 1Ophthalmology, Clinique de Montchoisi, Lausanne, Switzerland; 3Preclinical Services, Charles River Laboratories, Montreal, QC, Canada; 4Science Interventional, Menlo Park, CA; 3Janssen Pharmaceuticals Companies of Johnson & Johnson, Radnor, PA. *CR

5845 — A465 Correlation Of The Detection Of Blood Flow In An RPE-choroidal Graft With Phase-resolved Doppler OFDI, With The Revascularization Steps Found On SD-OCT. Elsbeth J. Van Zeeburg1, B. Braaf, M.G. Cereda1, J.C. van Meurs1, J.F. de Boer2. 1The Rotterdam Eye Hospital, Rotterdam, The Netherlands; 2Rotterdam Ophthalmic Institute, Rotterdam, The Netherlands; 3Erasmus MC, University Medical Center, Rotterdam, The Netherlands; 4Institute for Lasers, Life and Biophotonics Amsterdam, Department of Physics and Astronomy, VU University, Amsterdam, The Netherlands. *CR

5846 — A466 Case Series of Central Serous Chorioretinopathy (CSR) Treated with the Novel NaviLas Navigated Laser System. Ravi Menghani, S. Lu. Ophthalmology, UCI Gavin Herbert Eye Institute, Orange, CA.

5847 — A467 Efficient Transfection and Genomic Integration of the PEDF Gene into a Limited Number of Primary IPE Cells. Gabriele Thumann, N. Harmening, A. Dobias, S. Johnen. Department of Ophthalmology, RWTH Aachen University, Aachen, Germany.

5848 — A468 Autologous Bruch’s Membrane Rotation As A Potential Adjunct To Retinal Pigment Epithelium Cell Replacement Therapy For Age Related Macular Degeneration. Mandeep S. Singh1, E.J. Lee1, H.E. Jones2, B. Ahmed2, I.M. Andolina2, P.M. Munro3, K.L. Grieve3, G.W. Aylward1, A.M. Stillito1, R.E. MacLaren2. 1University of Oxford & Oxford Eye Hospital NIHR Biomedical Research Centre, Oxford, United Kingdom; 2UCL Institute of Ophthalmology & Moorfields Eye Hospital NIHR Biomedical Research Centre, London, United Kingdom; 3Faculty of Life Sciences, University of Manchester, Manchester, United Kingdom.

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5849 — A469 Ips-derived Rpe Demonstrate Both Trophic Rescue And Functional Phagocytosis Of Photoreceptor Outer Segments Following Implantation In Diseased Rat Eyes. David F. Friedlander1, F.D. Westenskow1, T. Kuriramu2, J. Wang3, A.L. Dorsey4, S. Bravo4, G. Szuczk5, M. Friedlander1. 1Cytobiology Laboratory, 2Center for Metabolomics, 3The Scripps Research Institute, La Jolla, CA.


5851 — A471 Earlier Laser Treatment Of Retinopathy of Prematurity Could Reduce Need For Vitrectomy. Joo Eun Lee1, S. Jeon1, I. Yun1. 1Ophthalmology, Haeundae Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea; 2Ophthalmology, GM St. Mary’s Eye Center, Busan, Republic of Korea; 3Ophthalmology, Busan Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea.

5852 — A472 Late Occurrence of Narrow Angles and Angle Closure Glaucoma in Patients with Treated Retinopathy of Prematurity, Paul Bacić1, T.N. Szymarek2, C.S. Teitelbaum3,4, W.W. Paul1. 1Children’s Eye Care for Metabolomics, 1The Scripps Research Institute, La Jolla, CA; 2Children’s Eye Care, 3Ophthalmology, BPediatrics, 4Catholic University of the Sacred Heart, Rome, Italy; 4Catholic University of the Sacred Heart, Rome, Italy.

5853 — A473 Long-term Follow-Up Of The Adults With Retinopathy Of Prematurity Who Received Photocoagulation And Cryopexy Treatments. Hiroki Kaneko1,2, C. Fujioka1, R. Furushashi1. 1Ophthalmology, Yokkaichi Municipal Hospital, Yokkaichi, Japan; 2Ophthalmology, Nagoya University Graduate School of Medicine, Nagoya, Japan.

5854 — A474 Refractive Error and Ocular Biometry in Patients with a History of Retinopathy of Prematurity. Susan E. Yanni1, J.N. Leffler1, E.E. Birch1. 1Retina Foundation of the Southwest, Dallas, TX; 2Children’s Eye Care of North Texas, Plano, TX; 3Ophthalmology, University of Texas Southwestern Medical Center, Dallas, TX.

5855 — A475 Anti-VEGF In Rop Treatment - 5.5 Years Of Experience. Susana M. teixeira1,2, C.M. Santos1, F.C. Silva1, G. Pires1, R. Barros1. 1Ophthalmology, 2Ophthalmology Department, 1Hospital Professor Doutor Fernando Fonseca, Lisbon, Portugal.


5857 — A477 Comparison of Short Term Outcomes After Intravitreal Bevacizumab Versus Ranibizumab in the Treatment of Stage 3 Retinopathy of Prematurity, Jose Luis Guerrero-Naranjo1, F. Schooneveldj, J.J. Fromow-Guerreia, V. Morales-Cantona, G. Garcia-Aguire1, H. Quiroz-Mercado1, M.A. Martinez-Castellanos1. 1Retina, Asociacion Para Evitar la Ceguera en Mexico, Mexico City, Mexico; 2Retina, Asoc Para Evitar la Ceguera en Mexico, Mexico, Mexico; 3Retina, Association Para Evitar la Ceguera, Mexico City, Mexico; 4Retina, Assoc Para Evitar la Ceguera, Mexico City, Mexico; 5Retina, Assoc Para Evitar la Ceguera, Mexico, Mexico; 6Retina, Asociacion Para Evitar la Ceguera, Mexico, Mexico; 7Ophthalmology, Denver Health Medical Center, Denver, CO; 8Retina and Vitreous, Asociacion Para Evitar la Ceguera, Mexico, Mexico.

5858 — A478 Structural Outcome Of Intravitreal Injection Of Bevacizumab For Type I Rop Compared To Conventional Laser Treatment. Antonio Baldascino1,2, D. Lepore3, F. Molle3, P. Papacci4, M. Reibaldi1, A. Russo1, F. Munno1, C. Giannantonio1, C. Romagnoli1. 1Pediatrics, 2Catholic University of the Sacred Heart, Rome, Italy; 3Ophthalmology, 4Catholic University of the Sacred Heart, Rome, Italy.

5859 — A479 Evaluation of the Effects of Intravitreal Injection of Bevacizumab on Controlateral Eye Treated With Conventional Laser Photocoagulation. Fernando Molle1A, D. Lepore3, A. Baldascino1, P. Perrini1, L. Oraz1, V. Purcaro5, L. Vilaro, A. Melisso1, A. Molisso1. 1Ophthalmology, 2Pediatrics, 3Catholic University of the Sacred Heart, Rome, Italy.


5861 — A481 Fluorescein angiographic findings in spontaneously-regressing stage 1 or 2 retinopathy of prematurity. Andrea Portilla Demichelis, F. Schooneveldj, M.F. Chiang, R. Bolens1, H. Winninghoff1, J. Hernandez-Vargas1, V. Morales-Cantona1, M. Martinez Castellanos1, A.I. Ortiz2. 1Asociacion para Evitar la Ceguera en Mexico, IAP, Col. Barrio San Lucas, Coyocacan, Mexico; 2Retina, Asociacion Para Evitar la Ceguera en Mexico, Mexico, Mexico; 3Ophthalmology and Medical Informatics, Casey Eye Institute, Oregon Health & Science University, Portlan, OR; 4Pomona College, Claremont, CA; 5Retina, Asoc Para Evitar la Ceguera, Mexico, Mexico; 6Retina, Col San Lucas Coyocacan, APEC, Mexico City, Mexico. *CR

5862 — A482 Lack of peripheral retinal vascularization after infancy in Retinopathy of Prematurity (ROP) and Incontinentia Pigmenti (IP). William S. Tsouman. Ophthalmology, Wills Eye Institute, Philadelphia, PA.

5863 — A483 Fluorescein Angiography Macular Abnormalities Assessed by Optical Coherence Tomography in Retinopathy of Prematurity. Fernando Schooneveldj1, E.V. Giordano1, V. Morales-Cantona1, R.V. Chan1, H. Quiroz-Mercado1, M.A. Martinez-Castellanos8. 1Retina, Asociacion Para Evitar la Ceguera en Mexico, Mexico, Mexico; 2Retina, Asoc Para Evitar la Ceguera en Mexico, Mexico City, Mexico; 3Retina, Assoc Para Evitar la Ceguera, Mexico, Mexico; 4Ophthalmology, Weill Cornell Medical College, New York, NY; 5Ophthalmology, Denver Health Medical Center, Denver, CO; 6Retina and Vitreous, Asociacion Para Evitar la Ceguera, Mexico, Mexico; 7Ophthalmology, 8México, México, Mexico, Mexico; 9Ophthalmology, 10Mexico, México, Mexico.

5864 — A484 New method of analysis of tortuosity of retinal vessels in Retinopathy of Prematurity. Alfredo Reibaldi1, A. Scuderi1, A. Longo1, I.M. Franco1, A. Russo1, F. Munno1, V. Villari1, A. Cantavenera1, M. Reibaldi1. 1Ophthalmology, University of Catania, Catania, Italy; 2Institute for Physical and Chemical Processes, CNR-IPCF, Messina, Italy.

5865 — A485 Plus Disease Diagnosis In Retinopathy Of Prematurity: Vascular Tortuosity As A Function Of Distance From Optic Disc Center. Katie M. Keck1, J. Kalpathy-Cramer2, E. Ataer-Cansizoglu1, S. You1, D. Erdogmus1, M.F. Chiang3,4,5. 1Ophthalmology, 2Medical Informatics, 3Oregon Health & Science University, Portland, OR; 4Radiology, Massachusetts General Hospital, Boston, MA; 5Electrical and Computer Engineering, Northeastern University, Boston, MA. *CR

5866 — A486 Aggressive posterior retinopathy of prematurity: Quantitative analysis of vascular features. Rony Woo1, R.V. Chan2, M. Martinez-Perez3, M.F. Chiang3. 1Yale School of Medicine, New Haven, CT; 2Ophthalmology, Weill Cornell Medical College, New York, NY; 3Department of Computer Science, Institute of Research in Applied Mathematics and Systems, UNAM, Mexico City, Mexico; 4Ophthalmology and Medical Informatics, Casey Eye Institute, Oregon Health & Science University, Portland, OR. *CR
5876 — A500  

5882 — A502  
Arginase 2 Deficiency Limits Microglia/Macrophage Activation and Prevents Hypoxia-induced Vascular Injury in the Mouse Retina. Jatemas Siwanpradit*4, Z. Xu4, S.P. Narayanan1, R.W. Caldwell3B, R.B. Caldwell1,2, 4Vascular Biology Center, 4Department of Pharmacology and Toxicology, 4Georgia Health Sciences University, Augusta, GA; 3VA Medical Center, Augusta, GA.

5883 — A503  
Genetic Deletion or Pharmacological Inhibition of Aldose Reductase Protects the Retina in a Mouse Model of Ischemia-induced Retinopathy. Zhongjie Fu4, S.Y. Li4, S. Chung1, B.C. D. Wong4, A.C. Lo4, F.C. Eye Institute, 4Anatomy, 4Research Center of Heart, Brain, Hormone and Healthy Aging, 4The University of Hong Kong, Hong Kong, Hong Kong.

5884 — A504  
Systemic Safety: After Intravitreal Bevacizumab Injection In Newborn Rabbit Eyes. Wei-Chi Wu, C-C. Lai. Ophthalmology, Chang Gung Memorial Hosp, Taoyuan, Taiwan.

5885 — A505  

5886 — A506  
Dense Rearing (DR) as a means of mimicking ‘Physiological Hypoxia’: A rationale for non-invasive treatment of Retinopathy of Prematurity. Samuel J. Adamson1, P. Kozulin1, R. Maccarone1, S. Yuni1, P. Hu1, S. Bist1, J. Provits3, M.C. Madigan1, J. McColin1, T. Chan-Ling1. 1Department of Anatomy & Histology, The University of Sydney, Sydney, Australia; 3ARC Centre of Excellence In Vision Science, Australian National University, Canberra, Australia; 3Biomedical & Science Technology, University of L’Aquila, L’Aquila, Italy; 3School of Optometry & Vision Science, University of NSW, Sydney, Australia.

5887 — A507  
The Krebs Cycle Metabolites in Retinal Angiogenesis: Implication of α-KG and its Receptor GPR99. Francois Duhamel1, S. Tremblay1, K. Zanpol1, P. Sapieha1, S. Chemtob1. 1Pharmacology, Ste-Justine Hospital Research Center, Montreal, QC, Canada; 2Ophthalmology, University of Montreal, Montreal, QC, Canada; 2Pediatrics & Pharmacology, Research Ctr/Hosp Ste Justine, Montreal, QC, Canada.
5908 — A587 Engraft Of Hyaluronic Acid-based Hydrogel Loaded Mesenchymal Stem Cell Into The Vitreous Body Of The Ischemic Rat Retina. Su-Ju Oh1, J. Lee2, J. Shin2, C. Yeum3, G. Chae4, M-H. Chun5. 1Department of Anatomy, 2Institute of Hansen’s Disease, 3College of Med Catholic Univ of Korea, Seoul, Republic of Korea.

5909 — A588 Characterization Of Human Induced Pluripotent Stem Cells Derived Neural Progenitor Cells. Wei Kong1, N. Yang2, X. Li3. 1Ophthalmology, the Fourth People’s Hospital of Shenyang City, Shenyang, China; 2Ophthalmology, the 4th Affiliated Hospital of China Medical University, Shenyang, China.

5910 — A589 Directing Virus-free Human Induced Pluripotent Stem Cells To Differentiate Into Retinal Cells. Xufeng Zhong1, C. Hampton2, T. Park3, D.M. Gamm1, E. Zambrides1, V. Cantosoler1. 1Wilmer Eye Inst, Johns Hopkins Univ Sch, Baltimore, MD; 2Institute for Cell Engineering, Johns Hopkins Univ Sch, Baltimore, MD; 3Stem Cell Research Program at Waisman Center and Ophthalmology and Visual Sciences, University of Wisconsin-Madison, Madison, WI.

5911 — A590 BDNF and DNA Demethylation Increase Expression of Pluripotency and Retinal Neural Genes in ImM10 Müller Glia-Derived Retinal Stem Cells. Deborah C. Ottesen1, J. Phillips1, T.D. Petkova1. 1Optometry, University of Houston, Houston, TX; 2University of Wisconsin, Madison, WI.

5912 — A591 Transcriptomic Comparison of RPE Derived From Two Human Embryonic Stem Cell Lines with Human Fetal RPE. Lawrence J. Rizzolo1, G. Gan1, S. Peng1, T.A. Van Zyl1, L.S. Edirwikkrema2, H. An3, M. Zhong4, C. Qin5, R.A. Adelman1. 1Surgery/Ophthalmology, 2Cell Biology, 3Ophthalmology, Yale Univ Sch of Med, New Haven, CT; 4ophthalmology, 2nd Hospital of Harbin Medical University, Harbin, China.

5913 — A592 Retinal Differentiation Of Human Es Cells Maintained In Chemically Defined, Xeno-free E8 Culture Medium. Kyle Wallace1, A. Gerner1, J. Martin1, Z. Hou2, D.M. Gamm1. 1Waisman Center, University of Wisconsin, Madison, WI; 2Waisman Center, Department of Ophthalmology, Eye Research Institute, 3University of Wisconsin Madison, Madison, WI; 4Morgridge Institute for Research, Madison, WI.

5914 — A593 Microparticles in Differentiation of Retinal Pigment Epithelial Cells from Human Pluripotent Stem Cells. Anni E. Sarkio1,2, T.H. Ilmarinen1, J.S. Loo1, H.T. Skottman1,2. 1Institute of Biomedical Technology, University of Tampere, Tampere, Finland; 2Institute of Biosciences and Medical Technology, Tampere, Finland; 3School of Materials Science and Engineering, Nanyang Technological University, Singapore, Singapore.

5915 — A594 Transfection of IGF-1 and IGFBP-1 in Neuronal Progenitor Cells from Human Persistent Fetal Vascular for Neuroprotection. Jie Ma1, C. Guo2, G. Chen2, D. Cyr3, K. Laskhari4,5. 1Schepps Eye Research Institute, Boston, MA; 2The Second Xiayia Hospital, Central South University, Changsha, China; 3Massachusetts Eye & Ear Infirmary, Boston, MA.

5916 — A595 Evaluation of Matrigel Degradation by MMP Secretion of hESC-RPE. Kenrick Kuvahara1, D. Zhu2, M. Humayun2, A.K. Ahuja1. Doheny Eye Institute, Los Angeles, CA.

5917 — A596 Surface Substrates Affect The Behavior And Survival Of Müller Glia Derived Stem Cells. Gisela Velez, A. Roy. Ophthalmology, University of Massachusetts Medical School, West, MA.

5918 — A597 Effects Of Clinically Relevant Agents On Human Retinal Progenitor Cells (hrpcs) In Culture: A Pre-clinical Cytotoxicity Study. Jing Yang, H. Klassen. Gavin Herbert Eye Institute, Department of Ophthalmology, University of Irvine, Irvine, CA.


5920 — A599 Evaluation of hESC-Derived Retinal Pigment Epithelial Cells Cultured as a Monolayer on Polymer Substrate Transplanted in RCS Rats. Padmaja B. Thomas1, B.B. Thomas1, L. Liu1, Y. Hu1, D. Zhu1, E. Barron1, D.O. Clegg2, D.R. Hinton1. 1Ophthalmology, 2Cell biology, 3Ophthalmology, Yale University, New Haven, CT; 4Ophthalmology, 2nd Hospital of Harbin Medical University, Harbin, China.

5921 — A600 Activated Omental Stromal Cells Protect Against Light-Induced Retinal Injury. Evan B. Price1,2, P. Bu3,4, P. Sethupathi2, E.B. Stubs1,2, J.I. Perlman1,2. 1Surgery, 2Research, 3Edward Hines, JR VA Hospital, Hines, IL; 4Ophthalmology, 2Microbiology and Immunology, 3Loyola University Medical Center, Maywood, IL.

5922 — A601 Embryonic Stem Cell Derived Retinal Pigment Epithelium Stem Cell Transplant: Survival And Lack Of Tumor Formation. In Athymic Nude Rats. Bruno Diniz, Sr1, R. Ribeiro1, R. Brant1, Y. Hu1, L. Liu1, P. Thomas1, B. Thomas1, D. Hinton1, M. Humayun1. 1Doheny Eye Institute, University of Southern California, Los Angeles, CA; 2Ophthalmology, Universidade Federal de Sao Paulo, Sao Paulo, Brazil; 3Department of Ophthalmology, Peking University Third Hospital, Beijing, China; 4Keck School of Medicine, Los Angeles, CA.

5923 — A602 Comparison Of Barrier Properties of RPE Derived from Two Human Embryonic Stem Cell Lines to the Properties of Human Fetal RPE. Shaoming Peng1,2, G. Gan3, C. Qiu4, L. Li5, R.A. Adelman6, L.J. Rizzolo7. 1Surgery/Ophthalmology, 2Cell biology, 3Ophthalmology, 4Yale University, New Haven, CT; 5Ophthalmology, 2nd Hospital of Harbin Medical University, Harbin, China.

5924 — A603 Polarized Human Embryonic Stem Cell-Derived RPE Maintains its Monolayer Integrity and Function after Long-term in vitro Culture. Dunhong Zhu1, D.O. Clegg2, D.R. Hinton2,1. 1Doheny Eye Institute/Pathology, Univ of Southern California, Los Angeles, CA; 2Bioscience II, Univ of California-Santa Barbara, Santa Barbara, CA; 3Pathology, Keck School of Medicine USC, Los Angeles, CA.

5925 — A604 Reciprocal Modulation Of Wnt Signaling Promotes Enhanced Retinal Regeneration Following Selective Retinal Cell Ablation In Zebrafish. Jeff S. Munn1, J. Ariga2. Cellular Biology & Anatomy, Georgia Health Sciences University, Augusta, GA. 1CR

5926 — A605 Injury of the Adult Zebrafish Retina Induces Expression of Purinergic Receptors and Ecto-nucleotidases that Control In Vivo Cell Proliferation. Ariadna G. Battista1, M.P. Faillace2. 1Laboratorio de Neurociencias, Piso 7, Universidad de Buenos Aires Facultad de Medicina, Buenos Aires, Argentina; 2Instituto de Quimica y Fisicoquimica Biologicas (IQUIFIB), Buenos Aires, Argentina.

5927 — A606 HB-EGF is a Master Regulator of Müller Glia Dedifferentiation and Retina Regeneration. Jin Wan, D.J. Goldman. Molecular & Behav Neurosci Inst, University of Michigan, Ann Arbor, MI.
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Glucoma / Clinical & Epidemiologic Research

522 Surgery and Lasers

Moderators: Robert D Fechtner and Colm J O’Brien


5929 — A154 Trabectome™ Outcomes in Patients of African Decent. Nina H. Brown1, F. Fechtner2, N. Kaplowitz, N. Loewen. 1Ophthalmology, Howard University, Washington, DC; 2Ophthalmology, Howard University Hospital, Washington, DC.


5931 — A156 Trabecome Results In Eyes With Low Preoperative IOP. Xuejing Chen, K. Kaplowitz, N. Loewen. Ophthalmology, Yale School of Medicine, New Haven, CT. *CR

5932 — A157 Characteristics and Outcomes of Eyes with Neovascular Glaucoma (NVG) that Underwent Combined Pars Plana Vitrectomy (PPV) and Baerveldt Glaucoma Shunt Procedure. Christopher W. Seery1, C. Seery2, P. Emanu-Naeimi1, A. Kolomeyer3, M. Zarbin3, R. Fetchner3, N. Bhagat4. 1UMDNJ/ Bucknell University, Florham Park, NJ; 2UMDNJ, Newark, NJ.


5935 — A160 A Prospective Study of Phakic vs Pseudophakic Eyes After Phacoemulsification in Trabeculectomy for Open-Angle Glaucoma. Yuji Takihara1, M. Inatani2, M. Iwao2, M. Kawai2, T. Inoue1, K. Iwao1, H. Tanimura1. 1Ophthalm & Vis Science, Kumamoto Univ Sch of Med, Kumamoto, Japan; 2Department of Ophthalmology, University of Fukui, Fukui, Japan; 3Ophthalmology, Asahikawa Medical College, Asahikawa, Japan; 4Ophthalmology, Saga University, Saga City, Japan. *R

5936 — A161 Time Course Of Induced Astigmatism After Canaloplasty. Anselm G. Junemann1, J. Schlimberg2, F.K. Horn1, R. Rejdak2, F.E. Kruse1, M.C. Moelle1. 1Ophthalmology, University of Erlangen Nurnberg, Erlangen, Germany; 2General Ophthalmology, Medical University of Lublin, Lublin, Poland.


5939 — A164 A Comparison Of Intraocular Pressure Reduction After Selective Laser Trabeculoplasty With The Co-administration Of Lopetredol Versus None. Ronald L. Renbentsch2,3, N.R. Binder2, A. Jani1. 1Ophthalmology, University of Missouri-Kansas City, Kansas City, MO.


5941 — A166 Efficacy Of Glaucoma Surgical Procedures: A Systematic Review And Metaanalysis. Luciano Quaranta1, I. Floriani2, I. Riva1, G. Gambirasio1, I. De Simone2, E. Rulli2, E. Biagiol1, S. Credidio1. 1Ophthalmology-Glaucoma Unit, University of Brescia, Brescia, Italy; 2Laboratory of Clinical Trials, Istituto di ricerche farmacologiche «Mario Negri», Milan, Italy.

5942 — A167 Faster Visual Recovery Following Ex-press Than Trabeculectomy: Results Of A Prospective Rct. Delan Jinapriya1, L. Beltran-Pr1, G. Gambirasio1, I. De Simone2, E. Rulli2, E. Biagio1, S. Credidio1. 1Ophthalmology-Glaucoma Unit, University of Brescia, Brescia, Italy; 2Laboratory of Clinical Trials, Istituto di ricerche farmacologiche «Mario Negri», Milan, Italy.

5943 — A168 To Report On Long-term Comparative Outcomes For Mitomycin C Augmented Needle Revisions For Failing Deep Sclerectomies And Trabeculectomies. Antigoni Kookouli1, F. Musa, N. Anand. 1Department of Ophthalmology, University of Puerto Rico, San Juan, PR; 2Department of Ophthalmology, Hospital Metropolitano, San Juan, PR.

5944 — A169 Progression Rate Before and After Trabeculectomy. Jimena Schmidt1, S. Araneda1, E. Abusleme1, C. Perez1, E. Maul D.2, E. Maul F.2, A. Gerhard1, C. Triger1. 1Ophthalmology Department, Catholic University of Chile, Santiago, Chile; 2Ophthalmology Department, Sorero del Rio Hospital, Santiago, Chile.

5945 — A170 Success Rates And Risk Factors For Failure Of Bleb Needling Post Trabeculectomy. Andrew Toren1, S. Kulkarni2, L. Shuba1, M. Nicoletti1. 1Ophthalmology & Visual Sciences, Dalhousie University, Halifax, NS, Canada; 2Ophthalmology, University of Ottawa, Ottawa, ON, Canada.


5948 — A173 Outcome And Structural Evolution Of Myotymic Assisted Trabeculectomy In Inflammatory Glaucoma. Friederike Mackensen1, B.C. Dobner1, A.B. Knowl1, A.F. Scherwle1, K. Rohrschneider1. 1Department of Ophthalmology, Interdisciplinary Uveitis Center, University of Heidelberg, Heidelberg, Germany; 2Department of Ophthalmology, University of Heidelberg, Heidelberg, Germany. *CR


5951 — A176 Single Digit Intraocular Pressure In Post Trabeculectomy Patients And Its Effects On Visual Field Progression. Ana C. Toro1, C. Fernandez2, G. Hernandez2. 1Ophthalmology, University of Puerto Rico, San Juan, PR; 2Ophthalmology, Hospital Metropolitano, San Juan, PR.


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5953 – A178 The Influence Of Sceral Flap Thickness, Shape, Suture Number And Position On Pressure Change And Aqueous Flow Direction In A New Trabeculectomy Model. Amir Samsudin1, S. Broccini2, P.T. Khaw1, I. Eames3.
1University of Malaya, Kuala Lumpur, Malaysia; 2NIHR Biomedical Research Centre, Moorfields Eye Hospital and UCL Institute of Ophthalmology, London, United Kingdom; 3UCL School of Pharmacy, London, United Kingdom.


1Ophthalmology, Federal University of São Paulo, São Paulo, Brazil; 2Hospital Medicina dos Olhos, São Paulo, Brazil.

1Ophthalmology, National University of Singapore, Singapore, Singapore; 2Ophthalmology, Ludwig-Maximilians-University, Munich, Germany.

1Glaucoma, Hospital Klinikum der Universität, Detmold, Germany; 2Ophthalmology, Eye Unit, Ospedale “C. Cantu”, Como, Italy; 3Ophthalmology, Eye Clinic, Detmold, Germany; 4Ophthalmology, Princess Margaret Eye Institute, Toronto, ON, Canada.

1Ophthalmology, National University Hospital, National University Health System, Singapore, Singapore; 2Ophthalmology, National University of Singapore, Singapore, Singapore.

1Ophthalmology, UMDNJ-New Jersey Medical School, Newark, NJ; 2Ophthalmology, University of Maryland, Baltimore, MD; 3Ophthalmology, Princess Margaret Eye Institute, Toronto, ON, Canada; 4Ophthalmology, UMDNJ-New Jersey Medical School, Newark, NJ.

5960 – A185 Intraocular Pressure Reduction After Repeated Selective Laser Trabeculoplasty (SLT). Marcelo N. Ayala1, E. Chen1, St Erik Eye Hospital, Stockholm, Sweden.

1Ophthalmology, National University Hospital, National University Health System, Singapore, Singapore; 2Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; 3Ophthalmology, Columbia University, New York, NY.

1Ophthalmology, National University Hospital, National University Health System, Singapore, Singapore; 2Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; 3Ophthalmology, Columbia University, New York, NY.

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Department of Ophthalmology, Boston University School of Medicine, Boston, MA.

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1Ophthalmology, National University Hospital, National University Health System, Singapore, Singapore; 2Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; 3Ophthalmology, Columbia University, New York, NY; 4Ophthalmology, Croydon University Hospital, Croydon, United Kingdom.

5967 – A192 Subsequent SLT Can Be Effective After Initially Less Responsive SLT: 4 Year Follow-up. Albert S. Khouri1, T.L. Berezina1, B. Maltzman1, K. Shah1, R.D. Fechtner1.
1Ophthalmology, UMDNJ-New Jersey Medical School, Newark, NJ; 2Ophthalmology, UMDNJ-New Jersey Medical School, Newark, NJ; 3Ophthalmology, University of Malaya, Kuala Lumpur, Malaysia; 4Ophthalmology, Princess Margaret Eye Institute, Toronto, ON, Canada.

Ophthalmology, St Joseph, Paris, France.

5969 – A194 Baseline Intraocular Pressure Strongly Predicts Response to Selective Laser Trabeculoplasty for Open Angle Glaucoma. J. D. Nussdorf, A. C. Janot, D. W. Hanson, P.J. DeMarco.
Department of Ophthalmology, Ochsner Clinic Foundation, New Orleans, LA.

1Ophthalmology, Princess Royal University Hospital, Orpington, United Kingdom; 2Ophthalmology, University Hospitals Coventry Warwickshire & Warwick Medical School, Coventry, United Kingdom; 3Ophthalmology, Croydon University Hospital, Croydon, United Kingdom; 4Ophthalmology, Great Ormond Street Hospital, London, United Kingdom.

5971 – A196 Repeat SLT In Comprehensive Ophthalmology Practices. Jeffrey D. Henderer1, E.S. Yang1, A. Johnston1, S.K. Luminais1, R. Sherry1, J.P. Gaughan1.
Ophthalmology, University of Arizona, Tucson, AZ.

5972 – A197 Quantification of Short-term Endothelial Cell Loss and Intraocular Pressure Reduction Following Laser Peripheral Iridotomy. Gabriela C. Barretto1, L. Trancoso1, M. Cota1, L. Bitol1, T.S. Prata1.
1Glaucoma, Hospital Medicina dos Olhos, Sao Paulo, Brazil; 2Glaucoma, Complexo Hospital Padre Bento, Sao Paulo, Brazil.

1University of Chicago, Chicago, IL; 2John H. Stroger Jr. Hospital of Cook County, Chicago, IL.

Ophthalmology, University Hospital Zurich, Zurich, Switzerland.

5975 – A200 Change in Lens Vault after Laser Iridotomy in Asian Indian Eyes with Angle Closure. D涣aval Haria1, R. Sasikumar1, S. A2, D.A. Rao2, R. Balu2, N. K3, 44.

Department #75, CHNO 15/20, Paris, France.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – Refer to Program Number in the Clinical Trial (CT) Registration Index – Travel Grant Awardee
5977 — A202 A Qualitative and Quantitative Analysis of Filtering Blebs with Optical Coherence Tomography in Patients after Primary Trabeculectomy. Pietro E. Napoli, I. Zucca, M. Fossarello. Eye Clinic, University of Cagliari, Cagliari, Italy.


5979 — A204 Analysis of Bleb Morphology after Trabeculectomy with Anterior Segment Module Spectralis Ocular Coherence Tomography (SD-OCT). Sara Bochicchio, L. de Polo, M. Blini, G. Stauenghi. Dpt of Clinical Science, Eye Clinic Sacco Hospital, Milano, Italy. *CR


5981 — A206 Scanning Electron Microscopy Findings In Rabbit Eyes Undergoing Ultrasonic Cyclocoagulation. Florent Apfel1, A. Bégé2, T. Charrel3, C. Lafon4, J-Y. Chapelon5, P. Denis6, F. Romano7. 'Grenoble University Hospital, Grenoble, France; 'Inserm U1032, Lyon, France; 'EyetechCare, Rillieux la Pape, France; 'Croix-Rousse University Hospital, Lyon, France. *CR

5982 — A207 The Effects Of Combined Endoscopic Cyclophotocoagulation (ECP) And Phacoemulsification In The Treatment Of Mild To Moderate Glaucoma. Michael J. Siegel, W-S. Shih8, O.S. Faridi3, C.K. Gupta9, M.S. Juzeh10, M.E. Citron11, M.J. Siegel12, L.I. Siegel12. 'Ophthalmology, Kresge Eye Institute, Detroit, MI; 'School of Medicine, Wayne State University, Detroit, MI; 'Ophthalmology, William Beaumont Hospital, Royal Oak, MI; 'Ophthalmology, Beaumont, Bloomfield Hills, MI; 'Gliaoma Center of Michigan, Southfield, MI.


5987 — D808 Genetic screen of African-Americans with Fuchs endothelial corneal dystrophy. Natalie A. Afshari1, M.A. Minear2, J. Rinnmiller1, E. Balajoudia1, S. Watson1, M.A. Hauser1, R R. Allingham1, G.K. Klintworth2, Y-J. Li1, S.G. Gregory2. 'Ophthalmology, Duke University Eye Center, Durham, NC; 'Duke Center for Human Genetics, Durham, NC; 'Ophthalmology & Medicine, Duke Univ Medical Center, Durham, NC; 'Pathol Ophthalm, Duke Univ Medical Center, Morrisville, NC.

5988 — D809 Successful Culture Of Human Corneal Endothelial Cells Isolated From Patients With Fuchs Endothelial Corneal Dystrophy. Marie-Claude Perron1, K. Zaninolo1, C. Bostan1, O. Rochette Drouin2, A. Deschambaud2, I. Brunette2,3, S. Proulx2. 'Maisonneuve-Rosemont Hospital Research Center, Montreal, QC, Canada; 'Centre LOEX de l’Université Laval, Génie tissulaire et régénération; Centre de recherche FRSQ du CHA universitaire de Québec and Department of ophthalmology and ORL, Laval University, Quebec, QC, Canada; 'Department of ophthalmology, University of Montreal, Montreal, QC, Canada.


5992 — D813 Reconstruction of a Corneal Endothelium Using Cells From Patients With Fuchs Endothelial Corneal Dystrophy. Stephanie Proulx1, M. Haydar1, B. Goyer1, S. Laprise2, O. Rochette Drouin1, I. Brunette2. 'Centre LOEX de l’Université Laval, Génie tissulaire et régénération; Centre de recherche FRSQ du CHA universitaire de Québec and Département d’ophthalmologie, Université Laval, Québec, QC, Canada; 'Département d’ophthalmologie, Université de Montréal and Centre de Recherche de l’Hôpital Maisonneuve-Rosemont, Montréal, QC, Canada.

5993 — D814 Sulforaphane Decreases Endothelial Cell Apoptosis in Fuchs Endothelial Corneal Dystrophy: A Novel Treatment. Alireza Ziae1, U.V. Jarkunas. Schepens Eye Research Institute, Massachusetts Eye and Ear, Department of Ophthalmology, Harvard Medical School, Boston, MA.

5994 — D815 Fabricating Bioengineered Corneal Endothelial Cell Sheet Through Chitosan-polyacrylate-bleended Membranes. Tsung-Jen Wang1, I-J. Wang1, T-H. Young1. 'Department of Ophthalmology, Taipei Medical University Hospital, Taipei, Taiwan; 'Institute of Biomedical Engineering, College of Medicine and College of Engineering, National Taiwan University, Taipei, Taiwan; 'Department of Ophthalmology, National Taiwan University Hospital, Taipei, Taiwan; 'Department of Ophthalmology, National Taiwan University College of Medicine, Taipei, Taiwan.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures — Refer to Program Number in the Clinical Trial (CT) Registration Index — Travel Grant Awardee
6003 — D824 In Vitro Expansion Of Corneal Endothelial Cells On Biomimetic Substrates. Rachelle Palchesko1, J.L. Funderburgh2, A. Feinberg2. 1Ophthalmology, University of Pittsburgh School of Medicine, Pittsburgh, PA; 2Biomedical Engineering, Carnegie Mellon University, Pittsburgh, PA.

6004 — D825 Lentiviruses Mediated Interference With the ZO-1/ZONAB Pathway Induces Cell Cycle Progression in Human Corneal Endothelial Cells. Daniel Kankipati1, M. Basch2, A. Georgiadis3, U.F. Luhmann4, A.J. Smith1, F. Larkin1, R.R. Ali5. 1Department of Genetics, UCL Institute of Ophthalmology, London, United Kingdom; 2MOoRFs Eye Hospital, London, United Kingdom.

6005 — D826 Functional Study of SLC4A11 in HEK293 cells. Diego G. Ogando1, S.S. Jailmarada2, E.N. Vithana3, J.A. Bonanno4. 1School of Optometry, Indiana University, Bloomington, IN; 2Singapore Eye Research Institute, Singapore, Singapore.


6008 — D829 Over-representation Preliminary Analysis Between Expressed Genes In Corneal Endothelium And Mesenchymal Stem Cells. Jorge E. Valdez1, J. Zavala1, V. Treviño1, E. Martinez1. 1Dean’s Office, Tecnologico de Monterrey School of Medicine, Monterrey, Mexico; 2Cátedra de Oftalmología - Tecnológico de Monterrey, Monterrey, Mexico; 3Cátedra de Bioinformática - Tecnológico de Monterrey, Monterrey, Mexico.

6009 — D830 CD147 Expression Required for Lactate Transporters MCT1 and MCT4 in Rabbit Corneal Endothelium. Shinmin Li, T.T. Nguyen, J.A. Bonanno. School of Optometry, Indiana University, Bloomington, IN.

6010 — D831 Cultivation of Human Corneal Endothelial Cells on a Pericellular Matrix Prepared from Human Decidua-Derived Mesenchymal Cells. Ryohi Numata1, N. Okumura2, M. Nakahara1, M. Ueno1, S. Kinoshita2, Y. Kanemura1, Y. Sasa2, N. Kozumi1. 1Department of Ophthalmology, Schepens / Massachusetts Eye and Ear, Harvard Medical School, Boston, MA; 2Department of Ophthalmology, University Hospital, Tokyo, Japan; 3Division of Regenerative Medicine, Institute for Clinical Research Osaka National Hospital, National Hospital Organization, Osaka, Japan; 4Center for Developmental Biology, Riken, Kobe, Japan.

6011 — D832 The Role Of DJ-1 In Nrf2-regulated Antioxidant Defense In Human Corneal Endothelial Cells. Cailing Liu, T. Schmitter, U. Jurkanas. Schepens / Massachusetts Eye and Ear, Harvard Medical School, Boston, MA.

6012 — D833 NF-kB is the Transcription Factor of FGF-2 that Causes Endothelial Mesenchymal Transformation in Cornea. Jeong-Goo Lee1, J.M. Heur1, E.P. Kay1. 1Ophthalmology, University of Southern California, Los Angeles, CA; 2Doheny Eye Institute, Los Angeles, CA.

6013 — D834 Isolation and Propagation of Human Corneal Endothelial Cells Using a Dual Media Culture System. Gary S. Peh1, K-P. Toh1, D. Balehosur1, H-P Ang1, M-X. Lee1, D.T. Tan2, J. Mehta3, 4. 1Singapore Eye Research Institute, Singapore, Singapore; 2Singapore National Eye Centre, Singapore, Singapore; 3Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 4Department of Clinical Sciences, Duke-NUS Graduate Medical School, Singapore, Singapore.

6014 — D835 Apoptosis And Viability Of Human Corneal Endothelial Cell Cultures Following Photodynamic Therapy (pdt). Tanja Stachon1, J. Wung1, T. Eppig2, A. Langenbucher2, B. Seitz1, N. Szentmáry1. 1Department of Ophthalmology, Experimental Ophthalmology, Saarland University Hospital, Homburg/Saar, Germany; 2Department of Ophthalmology, Renmin Hospital of Wuhan University, Wuhan, China.


6018 — D839 Study of Effect of Donor Age and Death Neculacation Time on in-vitro Culture of Human Corneal Endothelial Cells. Hini Singh1, R. Tandon2, S. Mohanty3, A. Kumar3. 1Ophthalmology, Dr.R.P Centre for Ophthalmic Sciences, 2Stem Cell Facility, 3All India Institute of Medical Sciences, New Delhi, India.
6040 — D861 Reduced Hem-And Lymphangiogenesis Into A Fishscale-derived Collagen Scaffold Used As Biological Artificial Cornea (BioCornea). Deniz Hos1, F. Bock2, B. Regenfuss3, J. Onderka4, C.C. Lin5, H.J. Lat6, C. Cursiefen1. 1Department of Ophthalmology, University of Cologne, Cologne, Germany; 2Department of Ophthalmology, University of Erlangen-Nuremberg, Erlangen, Germany; 3Aeon Astron Corp., Taipei, Taiwan; 4Aeon Astron Europe B.V., Leiden, The Netherlands. *CR


6042 — D863 The Fate Of Collagen-based Hydrogels As Corneal Substitutes In “High Risk” Graft Recipients. Lucia Kuffova1, R. Fordyce1, M. Robertson1, M. Griffith2, J-J. Ahn3, K. Merritt, R.L. Hendricks4, J.V. Forrester1. 1Department of Ophthalmology, University of Aberdeen, Aberdeen, United Kingdom; 2Integrative Regenerative Medicine Centre, Linköping University, Linköping, Sweden; 3Department of Ophthalmology, University of Ottawa Eye Institute, Ottawa, ON, Canada; 4GMP Laboratories, Linköping University Hospital, Linköping, Sweden; 5Department of Ophthalmology, University of Pittsburgh School of Medicine, Pittsburgh, PA. *CR

6043 — D864 Therapeutic Keratoplasty Using Cryo-preserved Human Cornea For The Urgent Treatment Of Perforated Cornea Due To Infectious Keratitis. Hyung-Joon Kim, J-H. Lee. Department of Ophthalmology, Daegu Catholic Univ Hospital, Daegu, Republic of Korea.


6049 — D870 Graft Failure And Intraocular Pressure Control After Keratoplasty In Iridocorneal Endothelial Syndrome. Desmond T. Quek1, S. Han2, T. Wong2, D. Tan2, J. Mehta2. 1Singapore National Eye Center, Singapore, Singapore; 2Singapore Eye Research Institute, Singapore, Singapore; 3Ophthalmology, Samsung Medical Centre, Sungkyunkwan University, Korea, Republic of Korea.


6053 — D874 Long-Term Outcome of Corneal Transplant Surgery in Pediatric Patients with Keratoconus. Anna Djougarian1,2, G.W. Zaidman1,2. 1New York Medical College, Valhalla, NY; 2Ophthalmology, Westchester Medical Center, Valhalla, NY.

6054 — D875 Spontaneous wound dehiscence after removal of combined penetrating keratoplasty suture. Retrospective study about 71 cases. Oualid Ruechi, J-M. Perone, A. Agapie, O. Gheorghi, A. Ferte, I. Botez, P-J. Bertaux. Ophthalmology, Regional Hospital Center of Metz Bon-Secours, Metz, France.


6058 — D879 Femtosecond Laser-Assisted Mushroom Configuration Penetrating Keratoplasty And Deep Anterior Lamellar Keratoplasty In Advanced Keratoconus. Simon S. Fung1, P. Aiello1, A. Iovieno1, C. Nucci1, V. Maurino1. 1Cornea and External Disease Service, Moorfields Eye Hospital, London, United Kingdom; 2Department of Biophatology, Ophthalmology Unit, University of Rome Tor Vergata, Rome, Italy.


6060 — D881 Optical Functional Properties Of The Osteo-odontokeratoprosthesis (ookp). Richard M. Lee1, G. Ong1, J. White1, F. Lam3, C.S. Liu1, C.C. Hall1. Ophthalmology, Sussex Eye Hospital, Sussex Eye Hospital, United Kingdom; 2Optometry & Visual Science, City University, London, United Kingdom.

6061 — D882 In Vitro Effect of Microbial Infection on Candidate Biomaterials for Osteo-Odontokeratoprosthesis Skirt. Jodhirir B. Mehta1, X. Tan1, A. Riau2, R.W. Beuermann1, D. Tan1, K. Khor1. 1Cornea Refractive Tissue Engineering, 2Tissue Engineering, 3SNEC / SERI, Singapore, Singapore; 4Tissue Engineering, SERI, Singapore, Singapore; 5Cornea, SNEC, Singapore, Singapore.

6062 — D883 Field of View of Modified Osteo-Odontokeratoprosthesis. Victor M. Hernandez1,2, C. de Freitas1, G.C. Falcinelli1, Y. Sawatari1, V. Perez2, D. Sathlai2, F. Mant2, E.C. Alfonso2, J-M.A. Pare1,2,3. 1Ophthalmic Biophysics Center, 2Department of Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 3Department of Biomedical Engineering, Biomedical Optics and Laser Laboratory, University of Miami, Coral Gables, FL; 4Department of Maxillofacial Surgery, University of Miami Miller School of Medicine, Miami, FL.

6063 — D884 Poly(ethylene glycol diacrylate) - Poly(2-hydroxyethyl methacrylate) (PEGDA-PHEMA) Based Keratoprosthesis. Amelia L. Zellander1, M. Makkoush1, M. Cho. 1Bioengineering, University of Illinois at Chicago, Chicago, IL; 2Physical Therapy and Human Movement Sciences, Orthopaedic Surgery and Physical Medicine, Northwestern University, Chicago, IL. *CR

6064 — D885 Boston Type I Keratoprosthesis: Microbial Colonization and Antibacterial Resistance. Elie P. Eid1, M-C. Robert1, P. Saint-Antoine1, M. Harissi-Dagher2. 1Ophthalmology, 2Centre Hospitalier de l’Université de Montréal (CHUM), Hôpital Notre-Dame, Montréal, QC, Canada.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures · ✱ Refer to Program Number in the Clinical Trial (CT) Registration Index · ✱ Travel Grant Awardee
Thursday – Posters – 6065 – 6089

6065 — D886 Light-induced Maculopathy After Keratoprosthesis Surgery - True Or False? Borja Salvador Culla1, I. Behlau1, R.R. Sayegh1, F. Delori1, C.H. Dohlman1. 'Cornell - Keratoprosthesis, Massachusetts Eye & Ear Infirmary, Boston, MA; 2Schepens Eye Research Institute, Boston, MA.


6069 — D890 Results of the Boston keratoprosthesis type I larger backplate. Anita Shukla1, A. Cruzat2, J.-C. Abad1, C.H. Dohlman1, K.S. Colby1.


6071 — D892 Long-term Follow-up Of Implanted Boston Type I Keratoprosthesis And Angle Structural Changes Using Using Anterior Segment Optical Coherence Tomography, Cynthia X. Quan1, S. Hassanaly1, M. Harissi-Daghei1.


6074 — D895 Monitoring Of Glaucoma After The Implantation Of A Keratoprosthesis. Riccardo Scotto1, M. Papadisi1, A. Bagin2, A. Macri1, C.E. Traverso1. 'Ophthalmology, DiNOG, University of Genoa, Genova, Italy; 2Di NOG, S'Eye Clinic, 3Clinica Oculistica - Di NOG, 4University of Genova, Genova, Italy; 5Azienda Ospedaliera Universitaria San Martino, Genova, Italy.


Hall B/C — D897-D947 Thursday, May 10, 2012, 8:30 AM-10:15 AM Cornea

525 Contact Lens II (Basic Research)

Moderators: Nicole A Carnt and Nancy J Keir


6078 — D899 Evaluation Of Commercially Available Novel Multipurpose Contact Lens Care Solutions Effect On Membrane-associated Mucin Expression In The Rat Cornea. Kissoua T. Tchedre1, M. Imayasu1, Y. Horii1, H.D. Cavanagh2.

6079 — D900 Comparison of Disinfection Efficacies of Four Contact Lens Care Regimens Against Pseudomonas aeruginosa on Orthokeratology Lenses. Yoshie Itou1, N. Miyata2, T. Kawagoe1, M. Nobuhisa1, E. Okada1.


6085 — D906 Antimicrobial Efficacy of Melamine Covalently Bound to Contact Lenses. Debaran Dutta2, N. Cole1, M. Willcox2. *Brien Holden Vision Institute, Sydney, Australia; 2School of Optometry and Vision Science, University of New South Wales, Sydney, Australia.


6087 — D908 Non-Cultivable Bacterial Biofilm Communities in Used Contact Lens Cases. Judith L. Flanagan1, M. Allgeier1, M.D. Willcox2, P. Hugenholtz1. 1Brien Holden Vision Institute, Sydney, Australia; 2Joint Genome Institute, Walnut Creek, CA; 3Brien Holden Vision Institute, Univ of New South Wales, Sydney, Australia; 4Australian Centre for Ecogenomics, School of Chemistry and Molecular Biosciences & Institute for Mol, University of Queensland, Queensland, Australia.


6089 — D910 Membrane Permeability Of Staphylococcus Aureus Aggregates Exposed To Contact Lens Care Solutions. David J. McCanna, L.W. Jones. CCLR-School of Optometry, University of Waterloo, Waterloo, ON, Canada.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures — & Refer to Program Number in the Clinical Trial (CT) Registration Index — Travel Grant Awardee
6090 — D911 Comparison Of Two Dual-Disinfection Systems For Ocular Comfort, Corneal Staining And Corneal Infiltrative Events. Daniel Tilia1, P. Lazon De La Jara2, N. Peng1, H. Zhu1, M.D. Willcox3, B.A. Holden1. 1Brien Holden Vision Institute, Sydney, Australia; 2School of Optometry and Vision Science, University of NSW, Sydney, Australia; 3Brien Holden Vision Institute, Vision Cooperative Research Centre, Sydney, Australia.*CR, ☼

6091 — D912 Ocular Cytotoxic Potential Assessment Of Contact Lens Care Solutions And Evidence For A Useful Rinse Step With Unpreserved Solution. Melody Dutot1, J. Vincent2, I. Fabre3, C. Grasnick4, R. Fagon1, P. Rat1. 1Toxicology, *Research&Development, YSLAB, Paris, France; 2Direction des Laboratoires et des Contrôles, Agence Française de Sécurité Sanitaire des Produits de Santé, Vendargues, France; 3Chimie-Toxicologie Analytique et Cellulaire (EA 4463), Université Paris Descartes, Sorbonne Paris Cité, Faculté de Pharmacie, Paris. *CR

6092 — D913 Morning Cleaning or Replacement of Lenses Reduces Complications with Extended Wear of Contact Lenses. Jerome Ozkan1, M.D. Willcox2, P. Lazon De La Jara1, T.M. Rathi3, B.A. Holden4. 1Clinical Research & Trials Centre, 2Brien Holden Vision Institute, Sydney, Australia; 3Brien Holden Vision Institute, Univ of New South Wales, Sydney, Australia; 4Cornea, Contact lens, Refractive Surgery, LV Prasad Eye Institute, Banjara Hills, Hyderabad, India; 5Brien Holden Vision Institute, Vision Cooperative Research Centre, Sydney, Australia. ☼

6093 — D914 Qualitative and Quantitative Lubricity of Experimental Contact Lenses. Robert C. Tuck1, B. Quinter1, D. Patil1, J. Pruitt1, J. Nelson2. R&D, Alcon, Johns Creek, GA.*CR

6094 — D915 Effect of Soft Contact Lens Storage Solutions on Lens Wettability In-Vitro. Raised Fagehi1, A. Tomlinson1, V. Manahilos1. Vision Sciences, Glasgow Caledonian University, Glasgow, United Kingdom.

6095 — D916 Robust Contact Lens Lubricity using Surface Gels. W. G. Sawyer1, A.C. Dunn1, J.M. Uruena1, H.A. Ketelson1. 1Mechanical and Aerospace Eng, University of Florida, Gainesville, FL; 2R & D, Alcon Research Ltd, Fort Worth, TX.*CR


6097 — D918 Propoglycan 4 (Iuribicin) Enhances the Wettability Of Model Conventional And Silicone Hydrogel Contact Lenses. Lakshman N. Subbaraman1, T.A. Schmidt1, H. Sheardown1. 1Chemical Engineering, McMaster University, Hamilton, ON, Canada; 2Biomedical Engineering, University of Calgary, Calgary, AB, Canada.

6098 — D919 Estimating in-vivo Contact Lens Wettability Through Tear Film Hydrodynamics. Jalahia P. Varikooty1, N.J. Keir1, T.L. Simpson2. 1CCLR, School of Optometry, 2School of Optometry, University of Waterloo, Waterloo, ON, Canada.

6099 — D920 Hyaluronan Release from Contact Lenses in vitro and in vivo. Krista M. Fridman1, C.A. Scheuer1, S. Su1, L. Zhang1, S.E. Burke1. Bausch + Lomb, Rochester, NY.*CR, ☼


6101 — D922 Ocular Delivery Of Ketotifen Fumarate By Silicone Hydrogel And Conventional Hydrogel Contact Lens Materials. Anthony Sohuri1, A. Hui1, L. Jones1. Centre for Contact Lens Research, University of Waterloo, Waterloo, ON, Canada.

6102 — D923 Development of a Drug released Soft Contact Lens that Releases Antibiotics in a Sustained Manner. Shinichiro Kobayakawa1, T. Matsunaga2, K. Kakisu1, Y. Yamazaki2, T. Sato2, T. Tochikubo1. 11st Dept of Ophthalmology, Toho University, Tokyo, Japan; 2SEED Co Ltd, Kousoushiba, Japan.*CR


6104 — D925 Understanding Lens Shape Dynamics During Off-Eye Dehydration of Contact Lens Materials with Varying Water Content. Ian G. Cox1, R.H. Lee1. Vision Care, Bausch + Lomb, Rochester, NY.*CR

6105 — D926 Oxygen Diffusion Behind Modern Scleral Rigid Gas Permeable Contact Lenses. Sofia C. Peixoto-de-Matos1, V. Compañ2, S. Su1, L. Carichino2. 1Optometry, Indiana University, Bloomington, IN; 2Mathematics, IUPUI, Indianapolis, IN.

6106 — D927 Rapid Measurement of Tear Oxygen Tension Underneath Soft Contact Lenses by Frequency-Domain Phorimetry. Sangpy S. Srinivas1, G. Guidoboni2, L. Carichino2, Y. Jiang1, J.A. Bonanno1. 1Optometry, Indiana University, Bloomington, IN; 2Mathematics, IUPUI, Indianapolis, IN.

6107 — D928 Surface Characterization of a Water Gradient Silicone Hydrogel Contact Lens (delefilcon A). John Pruitt1, Y. Qiu1, S. Thekveli1, R. Hart1. Alcon, Johns Creek, GA.*CR

6108 — D929 Corneal Nerve Morphology In Soft And Orthokeratology Contact Lens Wear. Edward Lum, B. Golebiovski1, H.A. Swarbrick1. Sch of Optometry/Vision Sci, Univ of New South Wales, Sydney, Australia.*CR


6111 — D932 Interfacial Interactions Of Cationic And Anionic Artificial Tears With Ionic Hydrogel Contact Lens Surface. Muhammad Abdulaziz1, S. Benita1. 1Ophthalmology/Innovative Interventions, East Jerusalem Biomedical Institute, East Jerusalem, Palestine; 2Institute of Drug Research, Hebrew University of Jerusalem, Jerusalem, Israel.*CR

6112 — D933 Contact Lens/Contact Lens solution Combinations Determine the Inflammatory Changes on the Ocular Surface: A Laser In Vivo Confocal Microscopy Study. Bernardo M. Cavalcanti1, A. Cruz1, Y. Qazi1, N. Baniasadi1, M. Trinidad2, D. W. Watts2, D. Critser3, C. Leahy3, C.W. Sind4, P. Hamrah4. 1Cornea/Ophthalmology, Harvard Medical School/MEEI, Boston, MA; 2Cornea / Ophthalmology, Harvard Medical Sch/MEEI, Boston, MA; 3Ophthalmology, Cornea Research, Contact Lens, Massachusetts Eye and Ear Infirmary, Boston, MA; 4Cornea/Ophthalmology, MA Eye & Ear Infirmary/Harvard Med Sch, Boston, MA; 5Contact Lens, Ophthalmology, University of Iowa, Iowa City, IA.*CR, ☼

6113 — D934 Stress Induced Frictional Transitions in Cross-Linked Surface Gels. Thomas E. Angelini1, A.C. Dunn1, J.M. Uruena1, H.A. Ketelson1, W G. Sawyer1. 1Mechanical and Aerospace Eng, 2University of Florida, Gainesville, FL; 3R & D, Alcon Research Ltd, Fort Worth, TX.*CR


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6117 — D938 Evaluation of In Vitro Cytotoxicity Assays for Contact Lens Multi-Purpose Solutions. Mercedes Salvador-Silva1, L.C. Huang1, C.H. Powell2, L. Hoong3, R.M. Yetemen1. 1RD&D - Biological Sciences, 2Corneal R&D, 3Abbott Medical Optics (AMO), Santa Ana, CA. *CR

6118 — D939 Cytotoxic and Inflammatory Effects of Contact Lens Multipurpose Solutions on Human Corneal Epithelial Cells. Nir Erdinest1, Y. Grossman1, R. Harari1, H. Ovadia1, A. Solomon2. 1Ophthalmology, 2Neurology, Hadassah Hebrew University Medical Center, Jerusalem, Israel.

6119 — D940 The Impact of Intermittent Air Exposure on the Deposition of Lipids on Silicone Hydrogel and Conventional Hydrogel Contact Lens Materials. Holly I. Lorentz, M. Heynen, W. Khan, D. Triu, L. Jones. Centre for Contact Lens Research, University of Waterloo, Waterloo, ON, Canada. *CR


6121 — D942 In Vitro Dehydration of Daily Disposable and Silicone Hydrogel Contact Lens Materials. Hendrik Walther, L. Subbaraman, L.W. Jones. CCLR, University of Waterloo, ON, Canada. *CR


6124 — D945 Study Of Novel Chitosan-coated Contact Lens As An Equivalent Substrate For The Therapeutic Delivery Of Rabbit Limbal Epithelium. Xiao-Wei Tan, D. Tan, R.W. Beumer. J.S. Mehta. Singapore Eye Research Institute, Singapore Eye Research Institute, Singapore, Singapore.

6125 — D946 Measuring The Kinetics and Activity of Adsorbed Proteins: In Vitro Lysozyme Deposited Onto Contact Lenses Over Short Time Periods. Brad Hall1, L. Jones2, J.A. Forrest2. 1School of Optometry, 2Department of Physics & Astronomy, University of Waterloo, Waterloo, ON, Canada.


Hall B/C  D987-D1021 Thursday, May 10, 2012, 8:30 AM-10:15 AM Immunology & Microbiology / Cornea

526 Cornea/Anterior Segment Infection and Inflammation I

Moderator: Ashok Kumar

6127 — D987 Serratamolide as a novel hemolytic factor produced by Serratia marcescens. Robert M. Shanks1, N.A. Stella1. 1University of Oklahoma Health Sciences Center, Oklahoma City, OK.


6129 — D989 Cxcl Contributions To Host Resistance Following Pseudomonas Aeruginosaa Corneal Infection But Not To Herpes Simplex Virus Type 1. Katie M. Hudson1, D.J. Carr2,3,4,5. 1Ophthalmology, 2Microbiology and Immunology, 3University of Oklahoma Health Sciences Center, Oklahoma City, OK.

6130 — D990 Vasoactive Intestinal Peptide Regulates Toll-like Receptors in the Infected Cornea. Xiaoya Jiang, S.A. McClellan, R.P. Barrett, E.A. Berger, Y. Zhang, L.D. Hazlett. Department of Anatomy and Cell Biology, Wayne State University School of Medicine, Detroit, MI.

6131 — D991 mTOR Inhibition has Similar Effects to Treatment with Substance P in the Cornea of Pseudomonas aeruginosaa-Infected BALB/c Mice. Megan E. Foddenauer, S. McClellan, R. Barrett, L. Hazlett. Anatomy & Cell Biology, Wayne State University - School of Medicine, Detroit, MI.


6134 — D994 The Role Of Dendritic Cells In Flagellin-induced Protection Against Pseudomonas Aeruginosaa Keratitis. Nan Gao, F-S. Yu. Ophthalmology, Wayne State Univ/Kresge Eye Inst, Detroit, MI.

6135 — D995 Characterization Of Pseudomonas Aeruginosaa Type Three Secretory System (TTSS) Effector Molecules (Exo U/S/T) From Human Corneal Ulcer. Jeganathan lakshmi priya1, R. Sivaganese Karthikeyan1, N. Venkatesh Prajna1, E. Pearlman2, A. Rietsch1, P. Lalitha1. 1Microbiology, Aravind Medical Research Foundation, Madurai, India; 2Ophthalmology and Visual Sciences, Case Western Reserve University, Cleveland, OH; 3Dept. of Molecular Biology and Microbiology, Case western Reserve University, Cleveland, OH.

6136 — D996 Interactions of Pseudomonas aeruginosaa with human corneal fibroblasts in vitro., Ahmad Elsahri1,2, C. Heath1, M. Christodoulides1, P. Hossain2,3. 1Infection, Inflammation & Immunity, University of Southampton, Southampton, United Kingdom; 2Eye Unit, University Hospital Southampton NHS Foundation Trust, Southampton, United Kingdom.


6139 — D999 Genotypic Characterization of Staphylococcus aureus isolates from Eyes with Keratitis. Takashi Suzuki, S. Hayashi, Y. Ohashi. Department of Ophthalmology, Ehime University,Graduate School of Medicine, Toon-shi, Japan. *CR

6140 — D1000 Molecular Characterization of Virulence Genes Associated with MRSA Keratitis isolates. Jorge Maestre1, E. Perez2, M. Diaz2, E. Alfonso2, D. Miller1. 1Ophthalmology, 2Bascom Palmer Eye Institute, 3University of Miami, Miami, FL.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures — # Refer to Program Number in the Clinical Trial (CT) Registration Index — © Travel Grant Awardee

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6141 — D1001 Involvement of Corneal Epithelial Cells in the TLR7 Response in an In Vitro Bacterial Inflammation Model. Isabel Arranz-Valsero1,2, U. Schulte1, L. Contreras-Ruiz2, L. Garcia-Posadas2, A. Lopez-Garcia1, F. Pauleen1, Y. Diebold5. 1Ocular Surface Group, IOBA-University of Valladolid, Valladolid, Spain; 2Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Valladolid, Spain; 1Department of Anatomy and Cell Biology, Martin Luther University Halle/Wittenberg, Halle/Saale, Germany; 2Department of Anatomy II, Friedrich Alexander University Erlangen/Nuremberg, Erlangen, Germany.

6142 — D1002 Role of Antimicrobial Peptides in the Defense against E. coli keratitis. Satya Sree N. Kolar1, H. Baidouri1, A. McDermott1. University of Houston College of Optometry, Houston, TX.

6143 — D1003 Reprogramming Induced by TLR2/4 Agonists Regulates Corneal Immune Responses to Fungal Infection. Xinxi Wu1, J. Wang1, L. Wang2, Y. Li1. Opthalm QLu Hosp/Ophthalm, Shandong University, Jinan, Shandong, China.

6144 — D1004 Analysis of Acanthamoeba cysts isolated from contact lenses with the Raman spectroscopy microscope. Pablo L. Goldschmidt1, D. Di Cave1, S. Degorge1, D. Benallaoua1, E. Borsali1, A. Le Bouter1, B. Latellier1, V. Borderie1, L. LaRocco1, C. Chaumette1. 1Laboratoire, 2Service d’Ophthalmologie, Hôpital Sainte-Anne, Paris, France; 3Institut de la Vision, Paris, France.

6145 — D1005 Acanthamoeba Associated Microbial Communities. Darlene Miller1, J. Maestre-Mesas2, M. Diaz2, E. Perez2, V. Shrestapalov3, R. Van Gelder4, E.C. Alfonso1. 1Bascom Palmer Eye Institute, Univ of Miami Miller Sch of Med, Miami, FL; 2Ophthalmology, Univ of Washington School of Medicine, Seattle, WA.

6146 — D1006 Experimental Induction of Acute Acanthamoeba castellanii Keratitis in Cats. Eric C. Ledbetter1,4, E.C. da Silva1, L. Dong2, S.P. McDonough3. 1Clinical Sciences, 2Biomedical Sciences, 3Cornell University, Ithaca, NY.*CR

6147 — D1007 The Herpes Simplex Virus Type 1 Lactate Associated Transcript Inhibits Phenotypic and Functional Maturation of Dendritic Cells. Lbahar BenMohamed1, A.A. Chentoufi1, X. Dervillez1, G. Dasgupta1, C. Nguyen3, K.K. Kabbbara1, S.L. Wechsler1, A.B. Nesburn1. Gavin Herbert Eye Institute, Univ of California-Irvine, Irvine, CA.

6148 — D1008 Gene Transfer Of Hsv1-specific Meganuclease To The Murine Cornea Using Electroporation. Antoine Rousseau1,2, A. Ergani2, E.E. Gabison1, M. Corral1, N. Huot1, M. Gaïlledrat4, C. Desseaux1, B. Chapellier1, J.R. Roy1, M. Labetouille1,2. 1Ophthalmology, Hospital Bicetre, South Paris University, Le Kremlin Bicetre, France; 2Laboratoire de Virologie Moléculaire et Structurale, Centre National de la Recherche Scientifique, Gif-sur-Yvette, France; 1Institut de la Vision, Paris, France; 2Collectix Therapeutics, Paris, France; 3OMICIA Therapeutics SAS, Paris, France.*CR

6149 — D1009 Bilateral Herpetic Keratoconjunctivitis in Cancer Patients. Elvia Canseco1, J. Modak1, A. Kingham1, V. Arevalo1, S.K. Kim1. Ophthalmology, UT Houston Health Science Center (UTHSC), Houston, TX; 2Ophthalmology Section/Head and Neck Surgery, UT MD Anderson Cancer Center, Houston, TX.

6150 — D1010 Hsv1-specific Meganuclease May Reduce Ocular Infection In A Mouse Model Of Herpes Keratitis. Marc Labetouille1,2, E.E. Gabison1,4, N. Huot1, A. Rousseau1, S. Barradeau5, C. Mahier1, M. Gaïlledrat4, C. Desseaux1, B. Chapellier1, A. Ergani2. Ophthalmology, Hospital Bicetre, South Paris University, Le Kremlin Bicetre, France; 2Curs, upr 3296, Laboratoire de Virologie Moléculaire et Structurale, Gif sur Yvette, France; 1Hospital Bichat AP-HP Cornea, Fondation A de Rothschild, Paris, France; 3Institut de la Vision, Paris, France; 4Genomic Vision, Bagneux, France; 5Collectix therapeutics SAS, Paris, France.*CR

6151 — D1011 CD8+ T Cells Inhibit Viral Replication but Become a Source of VEGF Expression During Corneal Herpes Simplex Type I Infection. Christopher D. Conrady1, M. Zheng2, D.U. Stone2, D.J. Carr2. 1Microbiology and Immunology, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK; 2Ophthalmology, University of Oklahoma, Oklahoma City, OK.

6152 — D1012 Protective Asymptomatic Human Leukocyte Antigen (HLA)-A*0201-Restricted CD8+ Cytotoxic T-Lymphocyte Epitopes Identified from Herpes Simplex Virus Glycoprotein B. Anthony B. Nesburn1, X. Dervillez2, A.A. Chentoufi1, G. Dasgupta1, K.W. Kabbara2, M.C. Villacres2, C. Nguyen1, S.L. Wechsler1, L. BenMohamed1,1 Gavin Herbert Eye Institute, University of California, Irvine, Irvine, CA; 2University of Southern California, Los Angeles, CA.

6153 — D1013 Non-Muscle Myosin IIA Mediates HSV-1 Entry Into the Cells of the Human and Pig Corneas. Theissicar E. Antoine1,2, D. Shukla3,4,8. 1Ophthalmology and Visual Sciences, 2Microbiology and Immunology, University of Illinois at Chicago, Chicago, IL.

6154 — D1014 Corneal Dendritic Cells Suppress Local Corneal Damage and Mediate Systemic Viral Dissemination in Herpes Simplex Keratitis. Kai Hu1, H. Ghiasi1,2, U. Von Andrian1, P. Hamrah1,4. 1Ophthalmology, Massachusetts Eye & Ear Infirmary, Boston, MA; 2Surgery/Ophthalm Research, Cedars-Sinai Medical Center, Los Angeles, CA; 3Immune Disease institute, Boston, MA; 4Immune Institute Disease, Boston, MA.


6157 — D1017 Mistyping of Human Adenovirus Type 19 Associated with Epidemic Keratoconjunctivitis. Xiaohong Zhou1, C.M. Robinson1, J. Rajataya2, D. Seto2, M.S. Jones3, D.W. Dyer1, J. Chodosh1. 1Ophthalmology, Mass Eye and Ear - Harvard Medical School, Boston, MA; 2School of Systems Biology, George Mason University, Manassas, VA; 3Viral and Rickettsial Disease Laboratory, California Department of Public Health, Richmond, CA; 4Microbiology and Immunology, University of Oklahoma Health Science Center, Oklahoma City, OK.*CR


6160 — D1020 Neutralizing Kc (cex11) Ameliorates Recurrent Hsk. Patrick M. Stuart1, D. West. Ophthalmology, St Louis University, St Louis, MO.

6185 — D1045 In Vivo Confocal Microscopy Of Corneal Langerhans Cells In Systemic Lupus Erythematosus (SLE) Without Ocular Surface Manifestation. Miklos D. Resch1, L. Marosovszky, E. Medgyessi2, A. Balog, L. Kovacs, J. Nemeth. 1Dept Ophthalmology, Semmelweis University, Budapest, Hungary; 2Rheumatology Department, University of Szeged, Albert Szent-Györgyi Clinical Center, Faculty of Medicine, Szeged, Szeged, Hungary.

6186 — D1046 Microarray Based Ige Detection In Tears Of Vernal Keratoconjunctivitis Patients. Andrea Leonardi1, D. Faggian3, A. La Gloria Valerio4, F. Piliego3, L. Motterle4, M. Plebani3. 1Neuroscience, Ophthalmology, 2Department of Laboratory Medicine, 3University of Padova, Padova, Italy.

6187 — D1047 Inhibitory Role of Icos in Antigen-specific T cell-mediated Ocular Tissue Damage. Misao Terada1A, H. Taniguchi1B, R. Abe, J. Hori2A. 1Division of Lab Animal Science, 2Ophthalmology, Nippon Medical School, Bunkyo-ku, Japan; 3Research Institute for Biological Science, Tokyo University of Science, Noda, Japan.

6188 — D1048 Bone Marrow Derived Dendritic Cells Prevent Corneal Allograft Rejection In The Rat. Thomas Ritter, M. Nosov, A. Ryan, O. Treacy, M. Cregg, G. Fahy, M. Morcos, L. O’Flynn. Medicine, N’t Univ of Ireland, Galway, Galway, Ireland.


6190 — D1050 Etiology Diversity of Atypical And Severe Anterior Uveitis. Audrey Fel1, M. Bojanova2, V. Touitou1, P. Le Hoang3, F. Rozenberg4, B. Bodaghi3. 1Ophthalmology, Hospital la Pitié Salpêtrière, Paris, France; 2Virology, Hopital Cochin, Paris, France.

6191 — D1051 The Role of Toll-like Receptors in Corneal Angiogenesis. Lei Liu, J. Liu, A. Dick. Dept of Ophthalmology, School of Clinical Sciences, University of Bristol, Bristol, United Kingdom.


6194 — D1054 Emergence Of Pan-drug Resistant Pseudomonas Aeruginosa As A Cause Of Microbial Keratitis. Merle Fernandes1A, A. Pathengay2, N. Kumar1A, 1Cornea and Anterior Segment, 2Ocular Microbiology Service, 3L’V Prasad Eye Institute, Visakapatnam, India; 4Retina, Bascom Palmer Eye Institute, Miami, FL.


6197 — D1057 Heterogeneous Vancomycin-Intermediate Staphylococci Isolates from Endophthalmitis. Paolo J. Bispo1,2, D. Miller1. Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.

6198 — D1058 Microbiological Eradication Rates with BID or TID Dosing of Besifloxacin Ophthalmic Suspension, 0.6% in Bacterial Conjunctivitis Clinical Trials from 2004 - 2010. Kirk Bateman, T.L. Comstock, L.S. Gearinger, C.K. Deuter, D. Doycheva, B. Sobolewska. 1Ophthalmology, 2Department of Microbiology, 3Claude Bernard University, Lyon I, France.

6199 — D1059 Moxifloxacin Superior To Cefuroxime In Reducing Early-phase Adherence Of Staphylococcus Epidermidis To Hydrophobic Intracorneal Lenses. Fathalah Benbouzid1, S.A. Baïlif2, F. Renaud3, H. Hartmann3, P. Denis, L. Kodjikan1. 1Ophthalmology, Lyon Croix-Rousse Hospital, Lyon, France; 2Ophthalmology, Saint Roch Hospital, Nice, France; 3Microbiology laboratory, Department of biomaterials and biological interactions, Claude Bernard University, Lyon I, Lyon, France.

6200 — D1060 N-chloretaurine, N-monochloro-deimethylaurine And N-(chloro- deimethylaurine Are Safe And Effective Bacterialid Agents In Cornea Models. Barbara Teuschner1A, E. Schmidt1A, M. Nagl1A, N. Bechraikis1A. 1Ophthalmology, 2Microbiology, Innsbruck Medical University, Innsbruck, Austria.

6201 — D1061 Therapeutic Effects of Topical Bacteriophage KPP12 Administration on Pseudomonas aeruginosa Keratitis in Mice. Ken Fukuda1, W. Ishida2, J. Uchiyama2, T. Morita1, Y. Harada1, T. Sumi1, S. Matsuzaki1, M. Daibata1A, 2O. Fukashima1A. 1Ophthalmology, 2Microbiology and Infection, 3Kochi Medical School, Nankoku, Japan; 4Kochi Medical School Hospital, Nankoku, Japan.


6204 — D1064 Long-term oral Therapy with Ganciclovir in Patients with Posner-Schlossman Syndrome. Manfred Zierhut, C.M. Deuter; D. Doycheva, B. Sobolewska. Centre for Ophthalmology, University of Tuebingen, Tuebingen, Germany.

6205 — D1065 Treatment of Numural Keratitis With Intracorneal Ganciclovir. Eduardo Arenas1, A. Mieti1. 1ophthalmology, Santa Fe Foundation, BOGOTA, Colombia; 2Asocornea, Bogota, Colombia.

6206 — D1066 In Vitro Effectiveness Of Photodynamic Therapy Against Multi-resistant Pathogens. Katrin Winkler1A, M. Finke2A, J. Wang1A, N. Szentmáry1A, T. Eppig3A, H-J. Foth2, D. Hüttenerberger1A, A. Langenbucher4A, B. Seitz2A, M. Bischoff1A. 1Department of Microbiology, 2Department of Ophthalmology, 3Experimental Ophthalmology, 4Saarland University, Homburg, Germany; 5Physics Department, University of Kaiserslautern, Kaiserslautern, Germany; 6Apcare Pharma GmbH, Bielefeld, Germany; 7Experimental Ophthalmology, 8Department of Ophthalmology, Saarland University, Homburg/Saar, Germany.*CR


6209 — D1069  Treatment of Infectious Keratitis from Acanthamoeba by Corneal Crosslinking. Martin Berra¹, G. Galperin¹, G. Boscari², J. Zarate¹, J. Tao¹, P. Charadja¹, A. Berra¹. Lab de Investigaciones Oculares, Buenos Aires, Argentina; ¹BioFundus, Buenos Aires, Argentina; ²Servicio de Oftalmología-Hal.Clinicas, Buenos Aires, Argentina.

6210 — D1070  In Vitro Investigation of Riboflavin/UVA-mediated Elimination of Acanthamoeba Castellanii. Karim Makdouni¹, A. Backmann¹, J. Mortensen¹, S. Crafoord¹, T. Bourcier¹. Ophthalmology, BClinical Research Center, ¹Orebro University Hospital, Orebro, Sweden; ¹School of Health and Medical Sciences, Orebro University, Orebro, Sweden.

6211 — D1071  In Vitro Efficacy Of Amoebicidal Treatment Using Riboflavin/UV-A (365nm) Combination. Jonathan Letch, Jr¹, J. Auer¹, C. Speeg-Schatz¹, A. Abou-Bacar², E. Candolfi³, T. Bourcier¹. ¹Service d’Ophthalmologie, Nouvel Hopital Civil, Strasbourg, France; ²Laboratoire de Parasitologie et de Mycologie Medicale, Hopitaux Universitaires de Strasbourg, Strasbourg, France.


6214 — D1074  The Effect of Low Concentrations of Ben zalonium Chloride on Acanthamoeba survival. Elmer Y. Tu¹, M.E. Shoff¹, C.E. Joslin². ¹Ophthalmology, University of Illinois at Chicago, Glenview, IL; ²CDRH/OSEL/DB, FDA, Silver Spring, MD; ³Ophthalmology/Visual Sciences, University of Pennsylvania School of Medicine, Philadelphia, PA. *CR


6216 — D1076  Systemic vs. Combination Antiviral Therapy and Retinal Outcomes in Acute Retinal Necrosis. Stephanie K. cramer¹, C. Flaxel¹, S. Yeoh². ¹Ophthalmology, Casey Eye Institute, Portland, OR; ²Ophthalmology, Emory Eye Center, Decatur, GA.

6217 — D1077  Organo-selenium Coatings Inhibit Multiple Species Of Biofilm Formation On Different Types Of Ophthalmic Device Material. Kelly T. Mitchell¹, P. Tran¹, A. Arnett¹, T. Mosley², R. Hanes³, C. Jarvis⁴, A. Hamood⁵, L. Dominguez⁷, T. Reid³. ¹Ophthalmology, ²Microbiology and Immunology, ³Texas Tech University HSC, Lubbock, TX; ⁴Selenium Ltd., Austin, TX.

Hall B/C  D1078-D1087  Thursday, May 10, 2012, 8:30 AM-10:15 AM  Immunology & Microbiology / Retina / Retinal Cell Biology  529 AIDS-Related Ocular Disease

Moderator: Gary N Holland

6218 — D1078  Risk Of Cataract In Persons With Acquired Immune Deficiency Syndrome and Cytomegalovirus Retinitis. Elizabeth A. Sugar¹, A.T. Lyon¹, R.A. Lewis¹, D.A. Jabs², M-H. Heinemann³, J.P. Dunn³, J.H. Kemper³. ¹Studies of Ocular Complications of AIDS Research Group, ²Biostatistics, Epidemiology, Bloomberg School of Public Health, The Johns Hopkins University, Baltimore, MD; ³The Sidney Kimmel Comprehensive Cancer Center, ⁴Ophthalmology, The Johns Hopkins University School of Medicine, Baltimore, MD; ⁵Ophthalmology, Northwestern University, Chicago, IL; ⁶Ophthalmology, Medicine, Pediatrics, Molecular and Human Genetics, Baylor College of Medicine, Houston, TX; ⁷Ophthalmology, Internal Medicine, Mount Sinai School of Medicine, New York, NY; ⁸Ophthalmology, Weill Cornell Medical College, New York, NY; ⁹Ophthalmic Oncology Service, Department of Surgery, Memorial Sloan Kettering Cancer Center, New York, NY; ¹⁰Ophthalmology, Epidemiology, Center for Clinical Epidemiology and Biostatistics, The University of Pennsylvania School of Medicine, Philadelphia, PA. *CR

6219 — D1079  The Best Functional Predictor of HIV Status in Relation to the Retinal Damage. Afsoon Karim³, J. Kozak⁴, D-U.G. Bartschi⁵, H. Lemus¹, L. Dustin¹, J. Chhablani⁶, G. Barteselli³, H. Wang³, S.P. Azen⁷, W.R. Freeman⁷. ¹UCSD Jacobs Retina Center, ²Ophthalmology, University of California San Diego, La Jolla, CA; ³Ophthalmology-Shiley Eye Ctr, Unif of California-San Diego, La Jolla, CA; ⁴Graduate School of Public Health, San Diego State University, san diego, CA; ⁵Biostatistics, University of Southern California, Los Angeles, CA; ⁶Vitreo-Retina, Shiley Eye Center, UCSD, La Jolla, CA; ⁷Preventive Medicine, US C'Keck School of Medicine, Los Angeles, CA; ⁸Ophthalmology, UCSD Jacobs Retina Center, La Jolla, CA.

6220 — D1080  Non-Cytomegalovirus Related Ocular Opportunistic Infections in Patients With AIDS. Alice T. Lyon¹, S. Gangapatra², J.E. Thorne³, V. Vaidya¹, L.T. Drye¹. ¹Longitudinal Study of Ocular Complications of AIDS(LSOCA) Research Group, ²Ophthalmology, Northwestern University, Chicago, IL; ³Ophthalmal & Visual Sciences, Fundus Photograph Reading Ctr, Madison, WI; ４Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD; ５Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.

6221 — D1081  Association between HIV Microangiopathy and Systemic Complications in Patients with AIDS. Yoko Iwasaki¹, N. Yamamoto¹, T. Kawaguchi¹, N. Ozaki¹, M. Mochizuki¹, K. Murakami¹. ¹Ophthalmology, Tokyo Metropolitan Cancer and Infectious diseases Center Komagome Hospital, Tokyo, Japan; ²Ophthalmology & Visual Science, Tokyo Medical and Dental University, Tokyo, Japan.


6223 — D1083  Ocular Manifestations in HIV/AIDS Patients with Concurrent Cryptococcal Meningitis. Ninanni E. Coyne Combé¹, O. Nkomazana¹, S.H. Forster³, R.A. Adelman³. ¹Ophthalmology and Visual Science, Yale University School of Medicine, New Haven, CT; ²University of Botsswana School of Medicine, Gaborone, Botswana.


6225 — D1085  The Caspase-1-induced Pyroptotic Cell Death Pathway (Pyroptosis) Is Upregulated During Progression Of Experimental Murine Cytomegalovirus (MCMV) Retinitis in Mice With Retrovirus-induced Immunosuppression (MAIDS). Hsin Chien¹, E.L. Blalock², L.R. Bush³, C.I. Alston³, R.D. Dix². ¹Department of Biology, Viral Immunology Center, Georgia State University, Atlanta, GA; ²Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA; ³Department of Ophthalmology, Georgia State University, Atlanta, GA; ⁴Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA.
6227 — D1087 Characteristics of Suppressor of Cytokine Signaling (SOCS)1 and SOCS3 Expression in Response to Murine Cytomegalovirus (MCMV) Infection During Health and Retrovirus-Induced Immunosuppression (MAIDS), Christine I. Alston1, H. Chien1, E.L. Blalock2, R.D. Des1. 1Department of Biology, Viral Immunology Center, Georgia State University, Atlanta, GA; 2Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA.

6232 — D1098 Intraocular Th1/Th17 Cells Coexpressing IL-10: Tregs that Prevent Recurrent Autoimmune Retinal Cell Biology Thursday, May 10, 2012, 8:30 AM-10:15 AM Hall B/C

6233 — D1093 Anti-DEC205 Mediated Delivery of Self-Antigen to Dendritic Cell Restores Tolerance in Spontaneous EAU. Koju Kano1, C. Martin-Granados1, C. Bobu2, M.E. Wikstrom3, M.A. Dego1, R.M. Steinman4, J.V. Forrest5. 1Ophthalmology, University of Aberdeen, Aberdeen, United Kingdom; 2Lion Eye Institute, University of Western Australia, Nedlands, Western Australia, Australia; 3Rockefeller University, New York, NY.

6234 — D1094 Monocyte-derived Macrophages in EAU Resolution. Inbal Benhar1, A. London1, R.R. Caspi2, M. Schwartz3. 1Neurobiology, Weizmann Institute of Science, Rehovot, Israel; 2Laboratory of Immunology, National Eye Inst/NIH, Bethesda, MD.

6235 — D1095 Alpha-1 Adrenergic Stimulation Exacerbates Acute Ocular Inflammation Through A Mechanism Mediated By Transforming Growth Factor Beta (TGFβ). Paola A. Durand1, Y. Tan1, D. Fatmir1, X. Xia1, E. Suarez1, V.L. Perez2, J.L. Vega1. 1Neurology, Herbert Wertheim College of Medicine-Florida International University, Miami, FL; 2Ophthalmology, Bascom Palmer Eye Institute, Miller School of Medicine, Miami, FL.

6236 — D1096 Effect Of P2Y2 Deficiency On Experimental Autoimmune Uveitis Development. Laure E. Caspers1, L.J. Belva1, R. Devisspelaere1, M. Makkouh1, D. Communis1, J-M. Boeynaems1, B. Robaye2, C. Bruns3, F. Willermain1. 1Ophthalmology, Univ of Brussels-St Pierre Hosp, Brussels, Belgium; 2Univ of Brussels-IRIBHM, Brussels, Belgium.

6237 — D1097 Role of iC3b-CR3 interaction in Experimental Autoimmune Anterior Uveitis. Bharati Maitta, P. Jha, P.S. Bora1, N.S. Bora2. 1Ophthalmology, Jones Eye Institute-UAMS, Little Rock, AR.

6238 — D1098 Temporal Expression of mir-155 Correlates with the initiation and Development of Experimental Autoimmune Uveitis (EAU). Bernadette Marrero, Y. Chen-Rong, C. Nagenini, C. Egwaagw. Immunology, NEI, Bethesda, MD.

6239 — D1099 DAP-12, a Major Immunomediator, Either Promotes or Suppresses SLE Development. Barbara P. Vistica1, V. Filipovski, V. Touitou, C. Bloch-Chevalet, A. Rigolet, F. Charlotte, P. LeHoang, B. Bodaghi. Pitie Salpetriere Hospital, Paris, France.

6240 — D1100 Inhibition of CdK5 Attenuates Experimental Autoimmune Uveitis. Zili Zhang1, W. Wang1, J. Duan1, J.T. Rosenbaum2. 1Ophthalmology, Casey Eye Institute-OHSU, Portland, OR; 2Ophthalmology, Casey Eye Institute-OHSU, Portland, OR.

6241 — D1101 Immunological Inhibition of Pigment Epithelium-Derived Factor (PEDF)? Charles E. Thirkill. Ocular Immunology Research Lab 1220 Surge III, UC Davis, Davis 95616, CA.
Hall B/C D1117-D1152
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Physiology & Pharmacology

531 Inflammation and Infection

Moderators: Regis P Kowalski and Franz H Grus


6259 — D1119 In Vitro Activity of ACH-0139586, a Novel Isothiazoloquinolone, Moxifloxacin and Gatifloxacin Against Clinical Isolates, Including Methicillin and Fluoroquinolone Resistant. Aron Shapiro*, L. Bolen, A. Whillock*, D. Salm*. Ora, Inc., Andover, MA; *Eurofins Medinet, Chantilly, VA. **CR

6260 — D1120 A Novel Antiviral Protein RC28. Naibong Yan*, F. Piraino*, K. Lii*. Ophthalmic Laboratories, Chengdu, China; **Department of Ophthalmology and Visual Sciences, University of Wisconsin Medical School, WI.

6261 — D1121 Clinical utility of Ophtalmic Antimicrobial Susceptibility Measurement Plate. Norihiko Tou*, R. Nejima*, Y. Ikeda*, Y. Hor*, K. Sasaki*, M. Sakamoto*, K. Miyata**, Y. Inoue*, A. Tawara*, H. Fujivara*. **Ophthalmology, Univ of Occup & Environ Health, Kitakyushu, Japan; *Department of Ophthalmology, Tottori Univ Faculty of Medicine, Yonago, Japan; **Department of Ophthalmology, Toto University School of Medicine, Yonago, Japan; *Department of Ophthalmology, Toho University Sakura Medical Center, Sakura, Japan; **Ideta Eye Hospital, Kumamoto, Japan; **Ophthalmology, The Research Foundation for Microbial Diseases of Osaka University, Osaka, Japan; **Department of Clinical Laboratory, Tottori University Hospital, Yonago, Japan.


6263 — D1123 A Comparative Study in the Clinical and Microbial Efficacy of Topical Besifloxacin Ophthalmic Suspension 0.6% with Erythromycin Ophthalmic Ointment 0.5% for Management of Acute Blepharitis. George John. VA Medical Center, Louisville, KY. **CR, *CR


6265 — D1125 Effect of Simultaneous Treatment of Quinolones and Antifungal Drugs on Fungal-Bacterial Coculture. Diana Gabriela Ponce-Angulo Jr., M. Martinez-Rivera, Sr., V. Baptista-de Lucio, Sr., A. Rodriguez-Tovar, Sr., C. Santacruz-Valdez, Sr., A. Climent-Flores, Sr., A. Robles-Contreras, Jr., C. Diaz-Godinez, Jr., E. Felix Diaz-Parga, Jr., H. Mejia-Lopez, Sr.

*Research Unit / Microbiology and Proteomics, **Research Service, **Institute of Ophthalmology, Mexico, D.F., Mexico; **Laboratory of Medical Mycology, Department of Microbiology, National School of Biological Sciences (IPN), Mexico, D.F., Mexico.

6266 — D1126 Lacritin, a Novel Tear Glycoprotein, is an Effective Topical Antimicrobial Agent in an Animal Model. Alireza Hosseini*, F.A. Lattanzio, Jr.*, S.S. Samdour*, J.D. Sheppard, Jr.*, G.W. Laurie*, R.L. McKown*, P.B. Williams*. **Physiological Sciences, Eastern Virginia Medical School, Norfolk, VA; **Virginia Eye Consultants, Norfolk, VA; **Cell Biology, University of Virginia, Charlottesville, VA; **Integrated Science & Technology, James Madison University, Harrisonburg, VA.

6267 — D1127 Susceptibility Of Methicillin-resistant Staphylococci Clinical Isolates To Nitromycin And Other Antibiotics Commonly Used In Ophthalmic Therapy. Anna Rita Blanco*, A. Sudano Roccavo*, V. Papa*, M. Mazzone*.

*Pharmaco Biology Unit - BU Pharma, **Medical Marketing - BU Pharma, **Product Portfolio Development - BU Pharma, **SIIF SPA, Catania, Italy. **CR


8:30 am – 10:15 am
8:30 am – 10:15 am

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures — ** CR Refer to Program Number in the Clinical Trial (CT) Registration Index — Travel Grant Awardee 381
6269 — DI129 Increased Antibiotic Resistance Of Ocular Surface Flora After Repeated Use Of Prophylactic Topical Fluoroquinolone Post Intravitreal Injection For Neovascular Age-related Macular Degeneration (amd). Vivian T. Yin1, D. Weisbrod1, E. Mendelcorn3, C. Schwartz1, R. Kohly2, K. Eng3, W-C. Lam1, P. Kertes2.1Department of Ophthalmology, University of Toronto, Toronto, ON, Canada; 2Sunnybrook Health Sciences Center, Toronto, ON, Canada; 3Toronto Western Hospital, University Health Network, Toronto, ON, Canada. *CR, ▼

6270 — DI130 Multicenter Comparison Of Loteprednol 0.5% vs Prednisilone Acetate 1% in Patients Post-Phacoemulsification With IOL implants. Carlos Buznego1, G. Perez1, W. Trattler2, J.A. Khell3, B. Henderson1.1General & Surgical Ophthalm, Center for Excellence in EyeCare, Miami, FL; 2Cir for Excellence in Eye Care, Miami, FL; 3Cornea, Center For Excellence in Eye Care, Miami, FL; 4Ophthalmology/Cornea, Center for Excellence in Eyecare, Miami, FL; 5Boston Eye Surgery and Laser Center, Boston, MA. *CR, ▼


6272 — DI132 Retinal Damage in Severe Chemical Burn and the Use of Inflimixim Therapy. Fabiano Cadel1, E. Paschalis2, C.V. Regattieri1, R. Dana1, C.H. Doehman1.1Cornea and Refractive Surgery, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston, MA; 2Cornea and Retinal Therapy, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 3Scheepens Eye Research Institute, Harvard Medical School, Boston, MA. ▼

6273 — DI133 Topical Treatment With A Selective COX-2 Inhibitor Promotes Retinal Ganglion Cell Survival After Optic Nerve Crush. Oliver W. Gramlich1, H.D. von Pein1, A. Ziegler1, K. Bizo2, N. Pfeiffer3, F.H. Grus1.1Experimental Ophthalmology, 2Department of Neuropathology, 3General & Surgical Medicine, 4University Medical Center, Mainz, Mainz, Germany.


6275 — DI135 A Novel Peptide from Adiponectin Suppresses LPS-induced Pro-inflammatory Signaling in Macrophages by Inducing Interleukin-10 Expression. Huixi Jin, X. Yang, X. Xu, K. Liu. Shanghai First People’s Hospital, Shanghai, China.

6276 — DI136 Amelioration of Endotoxin-induced Uveitis Treated With An Ikb Kinase Inhibitor, Imd-0354 In Rats. Anton Lennikov1, N. Kitachi1,2, K. Noda1, R. Ando1, Z. Dong1, K. Namba1, K. Namba1, S. Ohno1, S. Ishida1.1Laboratory of Ocular Cell Biology and Visual Science, Department of Ophthalmology, 2Department of Ocular Inflammation and Immunology, 3Hokkaido University, Sapporo, Japan; 4Department of Ophthalmology, King University School of Medicine, Tokyo, Japan; 5Wakasa Seikatsu Co., Ltd., Kyoto, Japan. *CR

6277 — DI137 Lutein-rich Marigold Extract Induces Gene Expression Of Phase II Antioxidants In The PC12D Neuronal Cells. Seiji Miyake1,2, M. Takahashi3, M. Sasaki1,1A, S. Kobayashi1, K. Tsutoba1, Y. Ozawa1,1A.1Laboratory of Retinal Cell Biology, 2Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 3Wakasa Seikatsu Co., Ltd., Kyoto, Japan. *CR

6278 — DI138 Ocular and Systemic Pharmacokinetics of Loteprednol Etabonate Gel (0.5%) following Topical Ocular Administration To Rabbits. Shellise Glogowski, J.W. Proksch. Drug Metabolism & Pharmacokinetics, Global Pharmaceutical R&D, Bausch & Lomb, Rochester, NY. *CR

6279 — DI139 Topical Application Of Infliximab (Remicade®) In The Treatment Of Corneal Cautisiation. Fabio Bignami1, C. Giacomini1, S. Franchini, P. Rama1.1Cornea Unit - Eye Repair Lab, 2Ophthalmic Cornea and Ocular Surface Unit, 3San Raffaele Scientific Institute, Milan, Italy; 4Bietti Eye Foundation, Rome, Italy.

6280 — DI140 Identification of The Anti-Inflammatory Annexin-A1 Protein in Tears of Normal Subjects and Association of its Inflammatory Annexin-A1 Protein in Tears Keratoconjunctivitis Patients. Samira Yazid1, A. Leonard1, V. Calder1, R. Flower1.1Molecular Therapy, UCL, Institute of Ophthalmology, London, United Kingdom; 2Medicine School, University of Padua, Padua, Italy; 3Biochemical Pharmacology, QMUL, William Harvey Research Institute, London, United Kingdom.

6281 — DI141 HC-HA but not High Molecular Weight HA Polarizes LPS-Activated Macrophages toward M2 Phenotype via CD44-Mediated Suppression of TLR4 Signaling. Hua He1, S.C. Tseng1.1TissueTech and Ocular Surface Center, Miami, FL; 2Ocular Surface Center, Ocular Surface Res & Educ Fndtn, Miami, FL. *CR

6282 — DI142 Genetically Engineered IL-30 (IL27p28) Suppresses Experimental Autoimmune Uveitis. Ren-Xi Wang, C-Y. Yu, R. Mahdi, C. Egwuagu. Ophthalmology, BDepartment of Neuropathology, 2Ophthalmology, 3Schepens Eye Research Institute, 4Harvard Medical School, Boston, MA; 5Boston Eye Surgery and激光中心, Boston, MA. ▼

6283 — DI143 Viscoelastic And Sedimentation Characterization Of Loteprednol Etabonate Ophthalmic Gel, 0.5%. Martin J. Coffey, S.R. Davio. Pharmaceutical Product Development, Bausch and Lomb, Rochester, NY. *CR

6284 — DI144 A Novel Peptide Inhibits Inflammation in Endotoxin-induced Uveitis by Suppressing NF-kappaB and MAPK Signaling Pathway. Xiao lu Yang, H. Jin, X. Xu. Ophthalmology, Shanghai First People’s Hospital, Shanghai, China.


6286 — DI146 Clinical Experience With Sustained-Release Intravitreal Corticosteroid Implants: A Comparison Between The Fluocinolone Acetone (Retisert) And Dexamethasone (Ozurdex) Implants In Uveitis. Cheryl A. Arcinue1, C. Foster1, O. Ceroni1, L. Almullki1.1Uveitis and Ocular Immunology, Massachusetts Eye Research & Surgery Institution, Cambridge, MA; 2Ophthalmology, Massachusetts Eye and Ear Institute, Boston, MA.

6287 — DI147 Cytokine Levels In The Vitreous Fluid Of Patients With Ocular Sarcoidosis And Patients With Diabetic Retinopathy. Kenji Nagata1, K. Maruyama1, K. Yoneda1, T. Yoshimura1, K-H. Sonoda1, S. Kinoshita1.1Ophthalmology, Kyoto Prefectural Univ of Med, Kyoto, Japan; 2Ophthalmology, Kyushu University, Fukuoka, Japan; 3Ophthalmology, Yamaguchi University, Ube, Japan; 4Ophthalmology, Kyoto Prefectural Univ of Med, Kamigyo-Ku, Japan.

6288 — DI148 Human Tears Reveal Insights Into Corneal Neovascularization. Nadia Zakaria1, S. Van Grassdorf1, K. Wouters1, J. Rozema1, N. Cools1.1, V. Van Tendeloo1, Z. Berneman1, M-J. Tassignon1.1Ophthalmology, 2Statistics, 3Hematology, 4Center for Cell Therapy and Regenerative Medicine, 5University Hospital Antwerp, Antwerp, Belgium; 6Center for Cell Therapy and Regenerative Medicine, Antwerp University Hospital, Antwerp, Belgium.

6289 — DI149 Errors In Measuring VEGF Concentrations In The Presence Of Anti-VEGF Antibodies By Using ELISA. Hidenori Takahashi1, Y. Fugino2, Y. Yangt2.1Ophthalmology, Tokyo KoseiNenkin Hospital, Tokyo, Japan; 2Ophthalmology, University of Tokyo, Tokyo, Japan.


6292 — D1152  Cytokine Profile In Active Ocular Toxoplasmosis. Amanda Rey Torrente, B. Molins, V. Llorens, L. Pelegrín, M. Mesquida, M. Figueras, A. Adán Civera. Ophthalmology, Hospital Clinic Barcelona, Barcelona, Spain.
6293 – 6309 – Thursday – Papers

Floridian A
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Retinal Cell Biology

532 Experimental ROP

Moderators: John Flannery and Faizah N Bhatti

6293 — 11:15 Tyrosinase Function Determines Retinal Vascular Regeneration and Retinal Vascular Endothelial Progenitor Cell Recruitment in the Oxygen-Induced Retinopathy Model. Robert C. Symons1, R.S. White, B.E. O’Bryhim1. Ophthalmology, Kansas University Medical Center, Prairie Village, KS; 2Ophthalmology, Kansas University Medical Center, Kansas City, KS; 3Ophthalmology; Molecular and Integrative Physiology, Univ of Kansas Medical Center, Kansas City, KS.

6294 — 11:30 Tyrosinase Function Determines Bone Marrow and Blood Endothelial Progenitor Cell Numbers in Infant Mice in Normal Conditions and After Exposure to the Oxygen Induced Retinopathy Model. Bliss H. O’Bryhim1, R. White1, A. Symons2. Molecular & Integrative Physiology, Univ of Kansas Medical Center, Kansas City, KS; 2Ophthalmology, Univ of Kansas Medical Center, Prairie Village, KS.


6296 — 12:00 Activation of the Endothelin System in Models of Ischemic Retinopathy. Chintan Patel1, W. Zhang2, Z. Xu2, S.P. Narayanan3, N-T. Tsai4, W. Caldwell4. Basic Science Center, 1National Eye Institute - NIH, Bethesda, MD; 2College of Optometry, University of Houston, Houston, TX; 3Vistakon, Columbus, OH; 4University of Western Sydney, Sydney, Australia.

6297 — 12:15 Progressive Central Photoreceptor Damages and Retinal Pigment Epithelium Abnormalities in Oxygen Induced Retinopathy. Zhao Shao1, J. Rivara2, T.E. Zhou1, P. Sapieha1, P. Lachapelle1, S. Chemtob1. Pediatrics & Pharmacology, McGill University, Montreal, QC, Canada; 2Departments of Pediatrics and Pharmacology, Hôpital Ste Justine, Research Center, Montreal, QC, Canada; 3Ophthalmology, University of Montreal, Montreal, QC, Canada; 4Ophthalmology, McGill U-Montreal Childrens Hosp, Montreal, QC, Canada; 5Pediatrics & Pharmacology, Research Ctr/Hosp Ste Justine, Montreal, QC, Canada.

6298 — 12:30 Netrin-1 Promotes Vascular Regeneration in a Mouse Model of Ischemic Retinopathy. Francois Binet1, G-S. Mawambo-Tagne1, S. Favret1, N. Situras1, N. Téreault2, A. Cerani1, E. Latapie1, F. Rezende1, T. Kennedy2, P. Sapieha1. Research Center, Maisonneuve Rosemont Hospital, Montreal, QC, Canada; 2Montreal Neurological Institute, McGill University Montreal, QC, Canada.

6300 — 11:15 Decreasing Peripheral Hyperopia With Distance-centre Relatively-plus Powered Periphery Contact Lenses Reduced The Rate Of Progression Myopia: A 5 Year Vision Care Study. Brien A. Holden1, P.R. Sankardurg1, P. Lazon De La Jara1, T. Naduwilathi1, A. Ho2, D.F. Sweeney2, M. Markoulli1, E.L. Smith1, P. Lazon De La Jara1, S.T. Magill1. 1College of Optometry, University of Houston, Houston, TX; 2Vistakon, Columbus, OH; 3Vision Cooperative Research Centre, University of New South Wales, Sydney, Australia; 4College of Health and Science, University of Western Sydney, Sydney, Australia; 5College of Optometry, University of Houston, Houston, TX; 6Zhongshan Ophthalmic Center, Guangzhou, China.

6301 — 11:30 Impact of a Novel Silicone Hydrogel Material on Meibomian Gland Structure. Jason J. Nichols, K.E. Osborn1, T. Henderson1. 1College of Optometry, University of Houston, Houston, TX; 2Vistakon, Columbus, OH; 3Vistakon, Jacksonville, FL.

6302 — 11:45 A Novel Method Of Measuring Tear Evaporation Rates Using Infrared Thermography. Andrea Petznick1, S. Lee2, J. Tan2, U. Acharya3, E. Ng1, L. Tong1. 1Ocular Surface Research Group, Singapore Eye Research Institute, Singapore, Singapore; 2School of Engineering, Ngee Ann Polytechnic, Singapore, Singapore; 3Singapore Institute of Technology, University of Glasgow, Glasgow, United Kingdom; 4School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore, Singapore; 5Cornea and External Eye Disease Service, Singapore National Eye Centre, Singapore, Singapore.

6303 — 12:00 Keratocan Detection by Corneal Epithelial Thickness Mapping with Fourier-Domain Optical Coherence Tomography. Yan Li1, O. Tan1, R. Brass2, J.L. Weiss1, D. Huang1. 1Ophthalmology, Oregon Health and Science University, Portland, OR; 2Albany Med Coll/Brass Eye Ctr, Latham, NY; 3Gordon & Weiss Vision Institute, San Diego, CA.

6304 — 12:15 Vitrified Collagen Gels with Optimized Material Properties for Repair of Ocular Injuries. Xiaomei Calderon-Colon1, Z. Xia1, Q. Guo2, J.E. Tiffany3, J.P. Maranchi4, R.L. McCall4, O. Schein5, J.H. Ellisefield6, M.M. Trexler6. 1Research and Exploratory Development, Johns Hopkins Univ - APL, Laurel, MD; 2Department of Biomedical Engineering, Johns Hopkins University, Baltimore, MD; 3The Wilmer Eye Institute at Johns Hopkins, Baltimore, MD; 4Department of Ophthalmology, Johns Hopkins University, Baltimore, MD.

6305 — 12:30 Mechanical Corneal Sculpting As New Treatment For Refractive Surgery. Wolfgang Herrmann1, S. Gebauer2, A. Dannullia3, J. Schroeder4, H. Maas5, H. Helbig6, O. Strauss7. 1Ophthalmology, University Hospital Erlangen, Erlangen, Germany; 2Deutsche Gesellschaft für Gewebetransplantation (DGFG), Hannover, Germany.

Room 114
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Immunology & Microbiology / Eye Movements, Strabismus, Amblyopia & Neuro-Ophthamology / Retina / Retinal Cell Biology

534 Ocular Immune Responses

Moderators: Holly L Rosenzweig and Paul G McNemarin

6307 — 11:15 The Role of Interleukin-17A in a Spontaneous Model of Autoimmune Uveitis Elicited by Retina-specific T Cells. Benjamin C. Chau1,2, R. Horai1, J. Chen1, C. Zárate-Blades1, R. Villasmit1, C-C. Chan2, R.R. Caspi2. 1Laboratory of Immunology, 2Flow Cytometry Core, 3National Eye Institute - NIH, Bethesda, MD; 4Howard Hughes Medical Institute, Bethesda, MD.

6308 — 11:30 Abundant II-17” T Cells Induced In Immunized C57bl/6 Mice Are Not Autoreactive. Deming Sun1, D. Liang, A. Zuo2, H. Shao2, H.J. Kaplan1, H. Nian1. 1DVRC-411, Doheny Eye Institute, Los Angeles, CA; 2Ophthalm & Visual Sciences, University of Louisville, Louisville, KY; 3Ophthalm & Vis Science, University of Louisville, Louisville, KY.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures ✥ Refer to Program Number in the Clinical Trial (CT) Registration Index ✤ Travel Grant Awardees 384
6310 — 12:00 Thrombospondin Receptor CD47
On T Cells And Not On The Surface Of Antigen Presenting Cells Is Necessary For Treg Induction

6311 — 12:15 APCAID Tolerogenic APC Induce Two Types Of CD4 Treg Cells By Two Different Mechanisms. Rose Mathew, J. Stein-Streilein. Immunology, Schepens Eye Research Institute/ MEEI, Boston, MA.

6312 — 12:30 In vivo Imaging of Experimental Autoimmune Uveitis disease progression in Cx3cr1-GFP and CD11c-YFP mice. Xiangying Chen1A, H.R. Chinnery2, J. Kezic3, M. Sidhu4, C. Bernard5, J.V. Forrester6, P.G. McMenamin1A. Ophthalmology, University Medical Center, Mainz, N. Boehm, O.W. Gramlich, N. Pfeiffer. Experimental Ophthalmology, University Medical Center, Mainz, Germany.

6313 — 12:45 The Elevation Of Cd14high16+ Monocytes In Uveitis Patients. Diamond Ling, B. Liu, H.N. Sen, M. Casady, Z. Li, L. Wei, S. Jawad, R.B. Nussenblatt. Laboratory of Immunology, NEI, Bethesda, MD.

Room 305
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Biochemistry & Molecular Biology

535 Biochemistry and Molecular Biology

Moderators: Michael A Walter and Tonis S Rex


6315 — 11:30 Hmg-1 Induces Apoptosis In Retinal Ganglion Cells And Intraretinal Inflammation By Activation Of Tlr4 And Cytokine Release. Maurice Schollenberg1, H. Melkonyan2, S. Thanos2. 1Department of Ophthalmology, University Hospital Essen, Essen, Germany; 2Institute of Experimental Ophthalmology, University of Muenster, Muenster, Germany.

6316 — 11:45 Lipidomics of glaucomatous optic nerve tissue via MALDI Imaging. Franz H. Gras, N. Boehm, O.W. Gramlich, N. Pfeiffer. Experimental Ophthalmology, University Medical Center, Mainz, Germany.

6317 — 12:00 Amyloid Fibril Formation By The Olfactomedlin Domain Of Myocilin. Raquel L. Lieberman1, S.D. Orwig1, C.W. Perry2, L.Y. Kim3, K.C. Turnage4, R. Zhang5, D. Vollrath5, I. Schmidt-Krey6. 1School of Chemistry & Biochemistry, 2School of Biology, 3Georgia Institute of Technology, Atlanta, GA; 4Department of Genetics, Stanford University School of Medicine, Palo Alto, CA.

6318 — 12:15 Clusterin In Age-Related Ocular Exfoliation Syndrome. Jorge Ghio1, I. Doudaevski1, M. Cowman2, J. Liebmann1, C. Tello1, C. Teng1, R. Ritch1, A. Rostagno1. 1Pathology, New York University School of Medicine, New York, NY; 2Chemical and Biological Sciences, Polytechnic Institute of New York University, New York, NY; 3Einhorn Clinical Research Center, New York Eye and Ear Infirmary, New York, NY.

6319 — 12:30 LOXL-1-Associated Pathomechanisms in Exfoliation Syndrome. Katalin Csizsar1, R. Laczk1, K. Molnar Szauter1, R. Ritch1. 1John A. Burns School of Medicine, Hawaii, Honolulu, HI; 2Einhorn Clinical Research Center, New York Eye and Ear Infirmary, New York, NY.

6320 — 12:45 Analysis Of Hsp70B+ As A Potential Direct Target Gene Of The FoxC1 Transcription Factor. Yoko Ito1A, F. Berry1B, M. Walter1A. 1Medical Genetics, 2Surgery, 1Univ of Alberta, Edmonton, AB, Canada.

Room 315
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Visual Neurophysiology

536 Horizontal and Amacrine Cells: Structure and Function

Moderators: Z Jimmy Zhou and Bryan W Jones

6321 — 11:15 Retinal Circadian Clock Enhances GABA Receptor-Mediated Horizontal Cell Feedback to Cones at Night, Compared to the Day. Hee Joo Choi, M. Ishii, Y. Cao, A. Adelaja, C. Ribelayga, S.C. Mangel. Neuroscience, Ohio State Univ College of Medicine, Columbus, OH.


6326 — 12:30 Dopaminergic Amacrine Cells Are Inhibited by Melatonin through Activation of MT1 and MT2 Receptors In The Mammalian Retina. Jie Feng1, C.L. Atkinson2, D-Q. Zhang3. 1Eye Research Institute, Oakland University, Rochester, MI; 2Department of Physiology and Pathophysiology, Xi’an Jiaotong University School of Medicine, Xi’an, China.

6327 — 12:45 Genetic Modulation of the Ratio of Cholinergic Amacrine Cells in the GCL and INL of the Mouse Retina. Irene E. Whitney4,5,6, M. Raven1,2,3, B.E. Reese1,2,6. 1Molecular, Cellular, and Developmental Biology, 2Neuroscience Research Institute, 3Psychological and Brain Sciences, 4University of California, Santa Barbara, CA.

Palm A
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Visual Psychophysics & Physiological Optics

537 New Directions for Bifocality, Multifocality and Restoration of Accommodation

Moderators: Jim Schwiegerling and Sanjeev Kathurirangan

6328 — 11:15 Optimizing Modified Monovision to Improve Binocular Through-Focus Visual Performance. Len Zheleznyak1, R. Sabesan2, S. MacRae3, G. Yoon1. 1The Institute of Optics, 2Flaum Eye Institute, 3University of Rochester, Rochester, NY.

6329 — 11:30 Depth Of Focus With Induced Coma At Different Orientations. Christina Schwarz1, C. Canovas2, S. Manzanera3, P.M. Prieto1, H.A. Weeber1, P.A. Piers1, P. Atra2. 1Laboratorio de Optica, Universidad de Murcia, Murcia, Spain; 2R&D, Abbott Medical Optics, Groningen, The Netherlands.

6330 — 11:45 Visual Outcomes Following Bilateral Implantation of a Trifocal Intraocular Lens. Sunil Shah1, A.L. Sheppard2, U. Bhatt3, J.S. Wolfsohn4. 1Midland Eye Institute, Birmingham, United Kingdom; 2School of Life and Health Sciences, Aston University, Birmingham, United Kingdom.

6331 — 12:00 Curvature Changing Accommodating IOls. Jim Schwiegerling, N. Savidis, S. McCafferty. Optical Sciences, University of Arizona, Tucson, AZ.


**Grand A**

Thursday, May 10, 2012, 11:15 AM-1:00 PM

Eye Movements, Strabismus, Amblyopia & Neuro-Ophthalmology

**538 Strabismus II**

**Moderators:** Vallabh E Das and Linda K McLoon


6337 — 11:45 Muscimol Inactivation Of The Cerebellar Fastigial Oculomotor Region In Strabismic Monkeys Changes Strabismus Angle. Anand C. Joshi, E. Baskin, V.E. Das. College of Optometry, University of Houston, Houston, TX.

6338 — 12:00 Bilateral 8-mm Medial Rectus Muscle Resection As Primary Surgery For Large Angle Exotropia. Nikhil N. Batra, N.N. Batra, M.J. Greenwald. Pediatric Ophthalmology, University of Chicago, Chicago, IL. *P


6340 — 12:30 Posterior Fixation Sutures Expand Binocularity In Patients With Persistent Paretic Or Restrictive Pathology. Steven A. Newman. Ophthalmology, University of Virginia, Charlottesville, VA.

6341 — 12:45 Sustained IGF-I Treatment Improves Eye Alignment in Adult Strabismic Monkeys. Linda K. McLoon, C.L. Willoughby, S.P. Christiansen, V.E. Das, M.J. Mustard. *Ophthalmology, University of Minnesota, Minneapolis, MN; *Ophthalmology, Boston University School of Medicine, Boston, MA; *College of Optometry, University of Houston, Houston, TX; *Ophthalmology, University of Washington, Seattle, WA.

**Grand B**

Thursday, May 10, 2012, 11:15 AM-1:00 PM

Clinical & Epidemiologic Research

**539 Diabetes and Retinal Disease**

**Moderators:** Tunde Peto and Gavin S Tan

6342 — 11:15 Retinal Microvascular Signs and 5-year Incidence of Stroke: The Singapore Malay Eye Study. Carol Y. Cheung, W. Tay, M. Ikrham, E. Tai, T.Y. Wong. Singapore Eye Research Institute, Singapore, Singapore; *Department of Ophthalmology, *Department of Medicine, Yong Loo Lin School of Medicine, National University of Singapore, Singapore.


6347 — 12:30 Longitudinal Changes In Retinal Vascular Caliber Measurements In Children And Its Relationship With Cardiovascular Risk Factors. Emil K. Kurniawan, N. Cheung, W. Tay, C.Y. Cheung, P. Mitchell, S.-M. Saw, T.Y. Wong. *Centre for Eye Research Australia, Royal Victorian Eye and Ear Hospital, Melbourne, Australia; *Singapore Eye Research Institute, Singapore, Singapore; *Department of Ophthalmology, University of Sydney, Sydney, Australia; *Department of Epidemiology and Public Health, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore.


**Grand D**

Thursday, May 10, 2012, 11:15 AM-1:00 PM

Glaucoma / Clinical & Epidemiologic Research

**540 Advances in Glaucoma Surgery**

**Moderators:** Gustavo V De Moraes and Remo Susanna, Jr.

Thursday – Papers – 6350 – 6362


Grand H

Thursday, May 10, 2012, 11:15 AM-1:00 PM

541 Retinal Detachment III

Moderators: Stanislaw Rizzo and Howard F Fine


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – # Refer to Program Number in the Clinical Trial (CT) Registration Index – @ Travel Grant Awardee

387
6363 – 6381 – Thursday – Posters

Clinal & Epidemiologic Research

542 Glaucoma III

Moderator: Nathan G Congdon

6363 – A1 Intracocular pressure and ocular perfusion pressure among 10-year incident glaucoma cases in the Age-Related Eye Disease Study (AREDS). Thassarat S. Vajararatn1, A.J. Hallak1,2, C.E. Joslin3,4. 1Ophthalmology, Virginia Commonwealth University, Richmond, Virginia, USA; 2Department of Ophthalmology and Visual Sciences, 3Epidemiology and Biostatistics, 4University of Illinois at Chicago, Chicago, IL.

6364 – A2 Evaluation of a Novel Optic Disc Grading Software for use in Population-based Studies. Yih Chung Tham1,2, C-L. Cheung1,2, T. Wong1,2, M. Baskaran3, J. Liu1, B-H. Lee1, J. Wang1, P. Mitchell1, T. Aung2, C-Y. Cheng1,2. 1Singapore Eye Research Institute (SERI), Singapore National Eye Centre, Singapore, Singapore; 2Singapore, Singapore; 3Department of Ophthalmology, Yong Loo Lin School of Medicine, Singapore, Singapore; 4Centre for Quantitative Medicine, Office of Clinical Sciences, Duke-NUS Graduate Medical School, Singapore, Singapore; 5Institute for Infocomm Research (I2R), Agency for Science, Technology and Research (A*Star), Singapore, Singapore; 6Department of Ophthalmology (Centre for Vision Research), Westmead Hospital, University of Sydney, Sydney, Australia.

6365 – A3 Evaluation of Depression in Newly Diagnosed Patients of Glaucoma Before and After Starting Ocular Hypotensive Therapy. Neelima Aron1,2, V. Arora3, R. Sagar4, V Sreenivas5, A. Rathi5, S. Kumar3, M. Wadhwani4,5, T. Dada1,2. 1Dr R P Centre for Ophthalmic Sciences, 2Department of Psychiatry, 3Department of Biostatistics, 4All India Institute of Medical Sciences, New-Delhi, India; 5Department of Ophthalmology, Government Medical College, Chandigarh, India.

6366 – A4 Metabolic Syndrome and the Risk of Developing Normal Tension Glaucoma. Mijin Kim1, J. Jeoung1, W. Oh1, H. Choi1, M. Kim1, K. Park1, S. Kim1, T-W. Kim1, D. Kim1. 1Department of Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; 2Department of Ophthalmology, Seoul National University Bundang Hospital, Seongnam, Republic of Korea; 3Kong Eye Clinic, Seoul, Republic of Korea; 4Department of Ophthalmology, Healthcare System Gangnam Center, Seoul National University Hospital, Seoul, Republic of Korea; 5Department of Ophthalmology, Seoul National University Boramae Hospital, Seoul, Republic of Korea.


6383 — A21 The Observed Co-prevalence Of Open-angle Glaucoma And Age-related Macular Degeneration Is Higher Than Predicted From The Prevalence Of Each Disease Alone. Lyne Racette, J.D. Rupp, A-D.T. Phan. Eugene and Marilyn Glick Eye Institute, Indiana University, Indianapolis, IN.


6386 — A24 Systemic Illnesses In Glaucoma: A Possible Link Between Glaucoma And Breast Cancer? Felise May Barte, S. Mhamde, B. Adams-Huet, K. Koerner. Ophthalmology, Clinical Sciences, University of Texas Southwestern Medical Center, Dallas, TX.


6388 — A26 Direct Cost Of Glaucoma Treatment For Patients With Primary Angle Closure Glaucoma Over 10 Years. Kailing Yong, H.M. Hoon, D.T. Quek, V.W. Wang, E.L. Lamoureux, J.P. T, Aung. Ophthalmology, Singapore National Eye Centre, Singapore; Singapore; Statistic Admin, Singapore Eye Research Inst, Singapore, Singapore; Center for Health Services Research, Singapore Health Services, Singapore; Ophthalmology, University of Melbourne, Melbourne, Australia; Singapore Eye Research Institute, Singapore National Eye Centre, Singapore; Glaucoma, Singapore National Eye Center, Singapore, Singapore.


Hall B/C A80-A98

Thursday, May 10, 2012, 11:15 AM-1:00 PM
Visual Psychophysics & Physiological Optics

543 Color Vision

Moderator: Dora F Ventura

6390 — A80 Learning to Name Colors Altered by Colored Filters. Thomas Kuyk, A. Smith, S. Kumar. TASC, Inc, Ft Sam Houston, TX; Air Force Research Laboratory, Ft Sam Houston, TX.


6397 — A87 Magno- And Dorsal Stream Processing Decline Slower Than Parvocellular Performance In Normal Aging. Maria F. Loureiro, C. Mateus, B. Oliveira, R. Lemos, A. Reis, M. Castelo-Branco. Visual Neuroscience, IBILI-Faculty of Medicine-University of Coimbra, Coimbra, Portugal; Ophthalmology, University Hospital of Coimbra, Coimbra, Portugal.

6398 — A88 Binocular Enhancement Of Color Contrast Sensitivity. Jeff C. Rabin, B. Stewart, V. Wong, J. Boster, M. Ruelle, T. Tran, J. Gooch, S. Wright. Optometry, UWI Rosenberg School of Optometry, San Antonio, TX; Ophthalmology, USAF School Aerospace Medicine, Dayton, OH.


6400 — A90 Cone Isolating Electroretinograms In Individuals With A Mutant Opsin Allele Associated With Cone Dystrophy. James A. Kuchenecker, S.H. Greenland, J. Carroll, G.A. Fishman, M.A. Genead, T.B. Connor Jr, M. Neitz, J. Neitz. Ophthalmology, University of Washington, Seattle, WA; Ophthalmology, Cell Biology, Medical College of Wisconsin, Milwaukee, WI; Chicago Lighthouse for People Who Are Blind or Visually Impaired, Chicago, IL; Ophthalmology and Vision Sciences, University of Illinois - Chicago, Chicago, IL; The Pangere Center for Hereditary Retinal Diseases, Chicago, IL.

6401 — A91 Color vision of female carriers and color vision deficiency subjects evaluated with the Cambridge Colour Test. Daniela M. Boncil, M. Neitz, J. Neitz, M. Gaullier, M.T. Barbini, T.L. Costa, L.L. Silveira, D.F. Ventura. Experimental Psychology, University of Sao Paulo, Sao Paulo, Brazil; Ophthalmology, University of Washington, Seattle, WA; Nucleo de Medicina Tropical, Universidade Federal do Para, Belem, Brazil.


Thursday – Posters – 6382 – 6404

11:16 am – 1:00 pm

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures — Refer to Program Number in the Clinical Trial (CT) Registration Index — Travel Grant Awardee

6426 — A319 DHA Restores HNE And PDE6 By Inhibiting Oxidative Damage In RPE At High Glucose Levels. Emma Arnal1, S. Johnsen-Soriano2, M. Miranda2, A. Navea1, J. Romero1,2, 3. FOM, Valencia, Spain; 2Dpto. Ciencias Biomédicas, UCH-CEU, Moncada, Spain; 3Facultad de Medicina, UCV, Valencia, Spain.

6427 — A320 Transferrin Delivery In The Eye Protects Photoreceptors From Light-Induced Retinal Degeneration. Emilie Picardi1, M. Berdogolz2, M. El Sanharawi3, J-C. Jeanny1,2, Y. Courtois1, F-F. Behar-Cohen1. 1UMRS 872 team 17, INSERM, Paris, France; 2UMRS 872 team 17, Université Pierre et Marie Curie et Université Descartes, Paris, France; 3Ophthalmology, Hotel Dieu de Paris, Universite Paris Descartes. INSERM UMR872, Paris, France.


6429 — A322 Iron Accumulation In Animal Models Of Genetic Retinal Degeneration: Human Transferrin As A Protector For Photoreceptors. Jean-Claude P. Jeanny1,2, L. Jonet2, M-H. Vesvre3, C. Sergeant4, F. Guillou5, F.F. Behar-Cohen2, C. Yves6, F. Picardi2. 1UMRS 872 team17, INSERM Centre des Cordeliers, Paris, France; 2UMRS 872 team 17, Université Pierre et Marie Curie et Université Descartes, Paris, France; 3UMR 5084, Nuclear and Bio-environmental Chemistry, CNRS, Bordeaux, France; 4UMR 6175, Physiologie de la Reproduction et des Comportements, INRA, CNRS, Université de Tours, Paris, France.

6430 — A323 TUDCA Prevents Microglia Activation In The P23H Rat Retina. Laura Fernández-Sanchez1, A. Noailles1, I. Pinilla1, J. Martin-Nieto2, P. Lax1, N. Cuenca1. 1Physiology, Genetics & Microbiology, University of Alicante, Alicante, Spain; 2Ophthalmology, University Hospital Lozano Blesa. Aragon Health Sciences Institute, Zaragoza, Spain.


6432 — A325 Fixation Stability and Central Retinal Sensitivity after Intravitreal Autologous Bone-Marrow Stem Cells for Hereditary Retinal Dystrophy. Rubens C. Siqueira1, A. Messias2, J.C. Volterelli3, K.V. Messias4, R.S. Arcieri4, R. Jorge4. 1Retina, 2Bone Marrow Transplantation, Sao Paulo University, Ribeirao Preto, Brazil. 3Facultad de Medicina, UCV, Valencia, Spain.

6433 — A326 Retinal Sheet Transplants Benefit Rats with Rod Degeneration, Revealed By Optokinetic Testing And Manganese-Enhanced MRI (MEMRI). Robert B. Aramant1, M.J. Seiler1, D.P. Bissig2, R. Roberts3, W. Qi4, Z. Chen4, S. Rana4, J. Almodovar4, H.S. Keirstead1. 1University of California, Irvine, Irvine, CA; 2Anatomy & Neurobiology/Reeve-Irvine Res Ctr, 3Biomedical Engineering, Beckman Laser Center, 4Univ of California, Irvine, Irvine, CA; 5Anatomy and Cell Biology, 6Anatomy and Cell Biology; Ophthalmology, 7Wayne State Univ School of Med, Detroit, MI. *CR

6434 — A327 A SubmicronVolts Focal ERG Technique for Evaluating Macular Function in Stargardt/FF Dystrophy: Clinical Assessment of Test Reliability. Benedetto Falsini1, M. Piccardi2, D. Marangoni3, A. Minnella1, M. Bertelli3, B.A. Berkowitz2, A. Fadda1. 1Ophthalmology, Catholic University, Rome, Italy; 2Ophthalmology, MAGI Laboratory for molecular genetics in rare diseases, Rovereto, Trento, Italy; 3Physiology, University of L’Aquila, L’Aquila, Italy; 4Health and Technology, Istituto Superiore di Sanita, Rome, Italy.


6436 — A329 Progressive RPE Dystrophy in Dutch Belt Rabbits. Meg Ramos1,2, I. Raymond1,2, E. Picard3,2. 1Drug Safety and Development, 2Biological Sciences, 3Research & Development, 4Allergan, Inc, Irvine, CA. *CR

6437 — A330 Retinal Degeneration and Microglial Activation in Mouse Models of Neuronal Ceroid Lipofuscinoses. Emma Arnal1, S. Johnsen-Soriano1, H.S. Keirstead1. 1Ophthalmology, 2Department of Ophthalmology, University Eye Clinics Regensburg, Regensburg, Germany; 3Department of Ophthalmology, University Eye Clinic Regensburg, Regensburg, Germany.

6438 — A331 Modeling Photoreceptor Interactions in the Presence of Retinitis Pigmentosa. Erika T. Camacho, S. Wirkus. Division of Math and Natural Sciences, Arizona State University, Glendale, AZ.

6439 — A332 Early S Cone Loss And L/m Cone Opsin Delocalization In The Canine Model Of Rpe65 Deficiency. Daniela Klein1, A. Mendes-Madeira1, B. Lorenz2, F. Rolling3, S. Haverkamp4, K. Stieger5. 1Department of Ophthalmology, Justus Liebig University Giessen, Giessen, Germany; 2Laboratory for Gene Therapy, University of Nantes, Nantes, France; 3Neuroanatomy, Max-Planck-Institut for Brain Research, Frankfurt, Germany.

6440 — A333 Degenerative Changes At The Rod Photoreceptor Synaptic Ribbon In Aging Dba2/j Mice. Michael Scholz1,2, M. Fuchs2,3, J. Atorff, R. Enz4,5, J.H. Brandstatter6. 1Anatomy 2, 2Biology, 3Department of Biology, 4University of Erlangen-Nuremberg, Erlangen, Germany; 5Ophthalmology, University Hospital Erlangen, Erlangen, Germany.


6443 — A336 Retinal Histopathology in Eyes from a Patient with Autosomal Dominant Retinitis Pigmentosa caused by the Pro23His Rhodopsin Mutation. Mary E. Rayborn1,4, V.L. Bonilha5, A.A. Boll1, M.J. Marino6, G.J. Pauer1, C.D. Beight1, E.I. Traboulsi5, S.A. Hagstrom4, J.G. Hollyfield4. 1Ophthalmology, 2Center for Genetic Eye Diseases, 3Cole Eye Inst/Cleveland Clin Lerner Coll Med, Cleveland, OH; 4University of California San Diego, La Jolla, CA; 5Casey Eye Institute, Portland, OR; 6Human Genetics, RaboUniv Nijmegen Med Ctr, Nijmegen, The Netherlands; 7Ophthalmology, Erasmus Medical Center, Rotterdam, The Netherlands.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures –  Refer to Program Number in the Clinical Trial (CT) Registration Index –  Travel Grant Awardee
545 — A377 Characterization of a humanized Mouse-Model for X-linked Retinitis Pigmentosa caused by a point mutation in the Rprgr gene. Junta U. Schlegel1, D. Röll1, M. Bergmann2, B. Lorenz2, K. Stieger3, 1Department of Ophthalmology, 2Department of Veterinary Anatomy, 3Justus-Liebig-University Giessen, Giessen, Germany.


545 — A379 ER Stress is Involved in Retinal Degeneration Induced by Human T17m Mutant Rhodopsin. Mansi M. Kunte1, S. Choudhury2, VM. Shinde1, J.F. Manhimi1, M. Miura1, O.S. Gorbatyuk1, M.S. Gorbatyuk2, 1Cell Biology and Anatomy, UNT Health Science Center, Fort Worth, TX; 2Laboratory for Cell Recovery Mechanisms, Brain Science Institute, RIKEN, Tokyo, Japan; 3Department of Molecular Genetics and Microbiology, University of Florida, Gainesville, FL. *CR

545 — A380 Ethanol Consumption Correlates with Retinal Degeneration and Vision Loss in the P23H Rat. Gema Esquiva1, P. Lax1, L. Fernandez-Sanchez1, A. Noailles1, I. Pinilla2, N. Cuencas1, 1Physiology, Genetics and Microbiology, University of Alicante, Alicante, Spain; 2Ophthalmology, Universityary Hospital Lozano Blesa, Zaragoza, Spain.


546 — A382 Crbl1 And Crbl2 Controls Cell Division During Retina Development. Lucie P. Pellissier1, C.H. Alves1, D. Lundvig1, M. Garcia-Garrido1, V. Sothilingam1, N. Tanimoto1, J. Kloooster1, J. Janrich1, M. Seeliger1, J. Wijnholds1, 1Neuromedical Genetics, Netherlands Inst for Neurosci, Amsterdam, The Netherlands; 2Division of Ocular Neurodegeneration, Institute for Ophthalmic research, Tuubingen, Germany; 3Institut de Biologie du Développement de Marseille Luminy, Marseille, France.

546 — A383 Deficiency in the Pro-Apoptotic CHOP Protein, a UPR Downstream Marker, Does Not Prevent Vision Loss in T17M Rho Retina. Sonalli R. Nashine1, A.S. Lewin1, M.S. Gorbatyuk1, 1Cell Biology and Anatomy, University of North Texas Health Science Center, FortWorth, TX; 2Molecular Genetics & Microbio, University of Florida, Gainesville, FL.

545 — A384 Effects of Chlorin e6 on Retinitis Pigmentosa Rhodopsin Mutants in vivo. Fernando Balem1,2, P.S. Akamine1, G.L. loshimoto2, B.V. Nagy3, D.F. Ventura4, J. Klein-Seetharaman1, D. Hamassaki1, 1Cell and Developmental Biology, 2Experimental Psychology, University of Sao Paulo, Sao Paulo, Brazil; 3Structural Biology, University of Pittsburgh, Pittsburgh, PA.

545 — A385 siRNA preservation in rapidly progressing autosomal dominant retinitis pigmentosa. Brian P. Rossmiller1,2, H. Mao1,2, A.S. Lewin1,2, 1Molecular Genetics & Microbiology, 2Molecular Genetics & Microbio, 1University of Florida, Gainesville, FL; 3Department of Molecular Genetics and Microbiology, 4Department of Molecular Genetics and Microbiology, 5The University of Florida, Gainesville, FL.

546 — A386 Analysis of Retinal and Choroidal Circulation in the Early Phase of Fluorescein Angiography in an Abyssinian Cat Model of Retinitis Pigmentosa (rdAc). Christina Seide1, K. Narstrom1, M.W. Seeliger1, 1Division of Ocular Neurodegeneration, Center for Ophthal., Inst. for Opht. Research, Tuebingen, Germany; 2Dept of Vet Med & Surgery, University of Missouri-Columbia, Columbia, MO.

546 — A387 Long-term Preservation Of Cone Photoreceptors By A Novel Multifunctional Drug In A Mouse Model Of Human Retinitis Pigmentosa. Bin Lin1, K. Wang1, M.B. Youdum1, 1Anatomy, Eye Institute, 2Anatomy, University of Hong Kong, Hong Kong; 3Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel.

546 — A388 Analysis Of Photoreceptor Abnormality In Gcx2d Knockin Mice Transgenic Pigs. Corinne Kostic1, T. King1, C. Sylvain1, S. Philippe1, S. Lilliac1, C. Sarkis1, J. Mallet1, Y. Arsenijevic1, B. White1,2, 1Gene Therapy & Stem Cell Biol, Jules-Gonin Eye Hosp, Univ Lausanne, Lausanne, Switzerland; 2Developmental Biological, The Roslin Institute, University of Edinburgh, Scotland, United Kingdom; 3New Vectors, Paris, France; 4Team of Biotherapy and Biotechnology, CRICM, Paris, France. 

546 — A389 Establishing a Human AMD Interactome. Paul Wong1, D.A. Ferrington2, T.W. Olsen1, 1Ophthalmology, Emory University, Atlanta, GA; 2Ophthalmology, University of Minnesota, Minneapolis, MN.
**Thursday – Posters – 6464 – 6485**


6467 — A393 Pro-oxidant Properties of Human Retinal Melanolipofuscin in the Presence of Iron Ions; Comparison with Lipofuscin and Melanosomes. Malgorzata B. Rozanska1, R. Edge2, F. Tuna2. 1Optom & Vis Science, Cardiff University, Cardiff, United Kingdom; 2School of Medicine, University of Pennsylvania, Philadelphia, PA.

6468 — A394 Therapeutic Effects Of Fenofibrate On Laser-induced Choroidal Neovascularization. Yang Hu1, Y. Chen1, J-X. Ma2. 1OUHSC BSEE 300, 2Harold Hamm Oklahoma Diabetes Ctr, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK; 1Physiology, OUHSC, Oklahoma City, OK.

6469 — A395 Mechanism Of All-Trans-retinal Toxicity: Implications For Stargardt’s Disease And Age-related Macular Degeneration. Ju Chen1, K. Okano1, T. Maeda1-2, V. Chauhan2, M. Goleczak3, A. Maeda3-4, K. Palczewski2. 1Pharmacology, 2Ophthalmology, Case Western Reserve University School of Medicine, Cleveland, OH; 3Ophthalmology, Case Western Reserve University, Cleveland, OH.

6470 — A396 Early Thinning Of The Retina Correlates With Increased Expression Of Immune Response Genes In The Harlequin Mouse. Justin G. Mayers1, K.A. Hill2, C.M. Huntk2. 1Biology, University of Western Ontario, London, ON, Canada; 2Ophthalmology, Ivey Eye Institute, London, ON, Canada.

6471 — A397 Alu Rna Induced Rpe Degeneration Via Ii8-myld8-caspase-3 Signaling. Valeria Tarallo, Y. Hirano, B.D. Gelfand, N. Keraa, B.J. Fowler, J. Ambati. Ophthalmology, University of Kentucky, Lexington, KY. *CR


6474 — A400 Microrna-335 Inhibits Sod2 Expression And Increases Oxidant-induced Rpe Cell Injury. Haijiang Lin1A, B.F. Godley1B. UC Davis Eye Center, UC Davis Eye Center, Sacramento, CA; 2Eye Center, University of California Davis, Sacramento, CA; 3Ophthalmology, University of California, Davis, Sacramento, CA; 4Ophthalmology, Univ of California-Davis, Sacramento, CA; 5Ophthalmology & Vision Science, Univ of California Davis Eye Ctr, Sacramento, CA; 6Research Lab 1220 Surge III, UC Davis, Davis, CA.

6475 — A401 The Inflammatory Response To Immune Complex Formation In The Retina. Salome Murinello1A, A.J. Lotery1B, V. Perry1A, J.L. Teeling1A. 1Center for Biological Sciences, 2Ophthalmology, BOPhthal & Visual Sciences, Univ of Texas Medical Branch, Galveston, TX.

6476 — A402 Elucidating the correlation between the levels of Macular Xanthophylls and A2E In Normal Indian Donor Eyes, Srinivasan Senhulkumar1, R. Ranjith Kumar1, A. Kotnait1, T. Velpandiar1. 1Department of Ocular Pharmacology, Aravind Medical Research Foundation, Madurai, India; 2Department of Ocular Pharmacology & Pharmacy, All India Institute of Medical Sciences, New Delhi, India.

6477 — A403 Linking Retinoids To Clinical Patterns Of Amd. Zoel Ablonczy1, D. Higbee2, A.M. Hanneken3, K.L. Schey4, Y. Koutalos5, R.K. Crouch1. 1Ophthalmology, Medical University of South Carolina, Charleston, SC; 2Molec & Exp Med, The Scripps Research Institute, La Jolla, CA; 3Biochemistry, Vanderbilt University, Nashville, TN.

6478 — A404 Quantification Of CEP By LC MS/MS. Geeng-Fu Jiang1, L. Zhang1, L. Hong1, H. Wang1, R.G. Salomon2, J.W. Crabbl3. 1Cole Eye Institute, Cleveland Clinic, Cleveland, OH; 2Department of Chemistry, Case Western Reserve University, Cleveland, OH; 3CR

6479 — A405 Cigarette Smoke Triggers Excessive Complement Activation in Human RPE Cells: Involvement of Nrf2 signaling. Lei Wang, K. Naoshi, K.B. Ebrahimi, M.D. Canol, T. Inoue1, K. Yuda1, T. Furukawa2, Y. Yagai1, Y. Tamaki1. 1Ophthalmology, Univ of Tokyo, School of Med, Bunkyo-ku, Japan; 2Department of Developmental Biology, Osaka Bioscience Institute, Suita, Osaka, Japan.

6480 — A406 Correlation of Retinal Function and C-reactive Protein, with Disease Severity and Progression In Eyes with Dry AMD. Matthew K. George, C.A. Garcia Filho, Z. Yehoshua, G. Gregori, W. Feuer, P.J. Rosenfeld. Bascom Palmer Eye Institute, Univ of Miami Miller Sch of Med, Miami, FL. *CR

6481 — A407 Amyloid-beta Peptide Induces Angiogenesis In The Adult Zebrafish Retina. Khomthon P. Cuvong1, D. Cameron2. 1Graduate College of Biomedical Sciences, 2College of Optometry, University of Houston College of Optometry, PM, University of Western Health Sciences, Pomona, CA.

6482 — A408 Intense Physiological Light Uregulates VEGF and Promotes Choroidal Neovascularization via PGC-1alpha/ERR-alpha Pathway. Takashi Ueta1, T. Inoue1, K. Yuda1, T. Furukawa2, Y. Yanagi1, Y. Tamaki1. 1Ophthalmology, Univ of Tokyo, School of Med, Bunkyo-ku, Japan; 2Department of Developmental Biology, Osaka Bioscience Institute, Suita, Osaka, Japan.

6483 — A409 Genetic Association of Glucose Transporter Type 1 Variants with Age-Related Macular Degeneration and its Direct Interaction with Complement Factor H at the Protein Level. Elod Kortvelyi1, A.I. Den Hollander1, M. Gorza2, V. Cipriani3, J.R. Yates4, C. Hayward5, A.F. Wright6, S. Fauser7, C.C. Hoog7, M. Ueffting1. 1Centre for Ophthalmology, University of Tuebingen, Tuebingen, Germany; 2Department of Ophthalmology, Radboud University Nijmegen, Medical Centre, Nijmegen, The Netherlands; 3Research Unit for Protein Science, Helmholtz Zentrum München, German Research Center for Environmental Health, Neuhérgen, Germany; 4Institute of Ophthalmology, University College, London, London, United Kingdom; 5Department of Medical Genetics, University of Cambridge, Cambridge, United Kingdom; 6Institute of Genetics and Molecular Medicine, MRC Human Genetics Unit, Edinburgh, United Kingdom; 7University Eye Hospital Cologne, Cologne, Germany; 8Institute for Ophthalmic Research, University Eye Hospital, Tuebingen, Germany.


6485 — A411 Can Environmental Enrichment (EE) Prevent the Rodent Light-induced Retinopathy (LRB)? Yasmin Kerouch1, K. Rousseau1, M. Guavin1, M. Quaddouni1, A. Polosa1, P. Lachapelle1. 1Ophthalmology and Neurology-Neurosurgery, McGill University-Montreal Children’s Hospital’s Research Institute, Montreal, QC, Canada; 2Department of Applied Therapeutics, Kuwait University, Faculty of Pharmacy, Kuwait.
6486 — A412 Characterisation Of The Large Macromolecular MMP Complex Of Human Bruch’s Membrane With Respect To Stability, Activation And Effects Of Ginseng Compounds. Jong Dol Shin1, J. Seok1, C. Sim1, M. Kang2, H. Shin3, Y. Lee4, A. Hussain5. 1Jeonbuk National University, Jeonju-si, Republic of Korea; 2GBioMix, Jeonju-si, Republic of Korea; 3Korean Atomic Energy Research Institute, Dae Jeon, Republic of Korea; 4Division of Molecular Therapy, UCL Institute of Ophthalmology, London, United Kingdom. *CR

6487 — A413 The oxysterol, 27-hydroxycholesterol, disrupts Estrogen Receptor and Liver X Receptor signaling in Retinal Pigment Epithelial Cells. Bhanu C. Dasari, O. Ghribi. Pharmacology Physiology & Therapeutics, Univ of North Dakota, Grand Forks, ND.

6488 — A414 Translational diffusion of ranibizumab and bevacizumab as measured by Fluorescence Recovery after Photobleaching (FRAP). Nishanthan Srikantha1,4, A. Suhling2, T. Jackson1,4. 1Ophthalmology, 2Physics, Kings College London, London, United Kingdom.

6489 — A415 Identifying the Roles of Interferon-Gamma Inducible Chemokines in Progression of Age-related Macular Degeneration (AMD). Syeda F. Absar1, D. Cyr2, A.D. Proia3, M.T. Malik, P. Bev1, K. Lashkar1. 1Schepens Eye Research Institute, Massachusetts Eye and Ear, Department of Ophthalmology, Harvard Medical School, Boston, MA; 2Department of Pathology, Duke University Medical Center, Durham, NC.


6492 — A418 8-CPT-2-O-Me-cAMP, a Rap1 activator, suppress laser-induced CNV in Mice. Eichi Nishimura1,2, M. McCloskey1, Y. Jiang1, G.W. Smith1, H. Wang1, E.S. Wittchen1, R. Koide2, M.E. Hartnett1. 1Ophthalmology, John A Moran Eye Ctr, Univ of Utah, Salt Lake City, UT; 2Ophthalmology, Showa University, School of Medicine, Tokyo, Japan; 3Cell and Developmental Biology, University of Washington, Seattle, WA.

6493 — A419 Impaired Vision in the DNA Double-Strand Break Repair Poly-mutant Mouse. Noemi L. Alvarez-Lindo1, J. Baleriola1, J.M. Sammartin2, T. Suarez3, G. Terrados3, B. Escudero3, A. Bernad3, L. Blanco4, P. de la Villa5, E. de la Rosa6. 1Cellular and molecular medicine, Centro de Investigaciones Biologicas-CSIC, Madrid, Spain; 2Centro de Biologia Molecular CSIC-UMM, Madrid, Spain; 3Centro de Nacional de Investigaciones Cardiovasculares, Madrid, Spain; 4Physiology, University of Alcala, Alcala de Henares, Spain.

6494 — A420 Ginseng Mediated Improvement In The Hydraulic Conductivity Of Human Bruch’s Membrane: Potential For Preventive Therapy In AMD. Cheul Miu Sim1, J. Seok1, M. Kang1, Y. Shin2, H. Shin2, Y. Lee3, A. Hussain5. 1Neutron Science Department, Korea Atomic Energy Research Institute, Daejeon, Republic of Korea; 2GBioMix, Jeonju, Republic of Korea; 3Physics, JeonBuk University, Jeonju, Republic of Korea; 4Division of Molecular Therapy, UCL Institute of Ophthalmology, London, United Kingdom. *CR

6495 — A421 The Kinetics of Retinal Gene Expression Profile of Cel2/Cx3cr1 Double Deficient Mice on rd8 Background. De Fen Shen1, Y. Wang2, K. Jin1, J. T’oo2, M. Xiang2, C-C. Chari1. 1Laboratory of Immunology, National Eye Inst/NIH, Bethesda, MD; 2Center for Advanced Biotechnology and Medicine, University of Medicine and Dentistry of New Jersey, Piscataway, NJ.


6498 — A424 Understanding The Mechanism Behind Enhancing Survival Of Photoreceptors In Culture And Regulation Of Photoreceptor Metabolism. Ken Lindsay1A, T.A. Reh1B, J.B. Hurley1A, D. Lamba2, J. Gust1A, 1Biochemistry, 2Biological Structure, University of Washington, Seattle, WA.


6502 — A428 Diet Can Influence Human Retinal n-3/n-6 VLC-PUFA Ratios. Aihua Liu1, R. Terry2, K. Nelson1, X. Sheng3, P.S. Bernstein1. 1Ophthalmal & Visual Sci, Univ of Utah/Moran Eye Center, Salt Lake City, UT; 2Department of Pediatrics, Univ of Utah/Department of Pediatrics, Salt Lake City, UT.


6505 — A431 Modifications Of Glycoproteins In The Bruch’s Membrane Via Glycolaldehyde Or Nitration: A Model For Aging And Inflammation. Mai T. Thao1, J.P. Dillon2, E.R. Gaillard2. 1Chemistry and Biochemistry, Northern Illinois University, Sycamore, IL; 2Chemistry and Biochemistry, Northern Illinois University, DeKalb, IL.


6507 — A433 Arms2 In/del Polymorphism Predicts Response To Intra Vitreal Anti-vegf Therapy For Choroidal Neovascular Age-related Macular Degeneration (amd). Alan J. Franklin1, M.F. Shuler2, S. Gupta3, J. Myers4, W.B. Luten4. 1Retina Specialty Institute, Mobile, AL; 2Retina Specialty Institute, Panama City, FL; 3Retina Specialty Institute, Pensacola, FL; 4Retina Specialty Institute, Pensacola, FL. *CR
6508 — A434 Conditional Knock-Out of Rambinding protein 2 (RanBP2)/Nucleoporin 358 (NUP358) in the Retinal Pigment Epithelium Results in the Activation of Membrane to Nuclear Signaling Pathways and Hallmark Features of Age-Related Macular Degeneration (AMD). Paulo A. Ferreira1, A. Saha1, E. Haque1, Y-Z. Le1, M. Webb2. 1Ophthalmology, Duke University Medical Center, Durham, NC; 2Medicine, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK.

6509 — A435 Image Registration Reveals Sites of Injury from Mitochondrial Oxidative Stress in the Retinal Pigment Epithelium. Alfred S. Lewin1, M.P. Krebs2, S. Soo3, K. Jones4, H. Mao5. 1Ophthalmology, Duke University Medical Center, Durham, NC; 2Medicine, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK.

6510 — A436 Genetically-related Inflammatory Priming and Failing Retinal Maintenance Predispose to Age-Related Retinal Degeneration in Mice. Debarshi Mustafi1, H. Kohno1, K. Pulczewski4, T. Maeda1. 1Molecular Genetics & Microbio, 2Molecular Genetics & Microbiology, 1University of Florida, Gainesville, FL; 2The Jackson Laboratory, Bar Harbor, ME; 3Dept of Ophthalmology, Univ of Florida Coll of Medicine, Gainesville, FL. *CR

6511 — A513 Associations Between Early Signs Of Age-related Macular Degeneration (AMD) And Risk Of AMD In The Fellow Eye In Patients With Unilateral AMD. Mariko Sasaki1,2, M. Mochimaru1, R. Kawasaki2, A. Uchida1, T. Koto1, H. Mochimaru1, University, Cleveland, OH.

6512 — A514 Initial Clinical Experience With RetnaGene AMDTM, A Genetic Test For Prediction Of CNV. Briana L. Sawyer1, D.Y. Harrison1, L. Perlee1, P.S. Bernstein1. 1Ophthalmology, John A. Moran Eye Center, Salt Lake City, UT; 2Sequenom, Inc, San Diego, CA. *CR

6513 — A515 Genetics And Prevention Of Blindness: Risk Factors Associated With Age-related Macular Degeneration In A Brazilian Population. Priscila H. Rim1, A.P. Marques-de-Faria2, L.A. Magna2. 1Ophthalmology, 2Medical genetics, Univ Estadual de Campinas, Campinas, Brazil.

6514 — A516 Do Ultraviolet Radiations Induce Earlier Aged Ocular Pathologies Among Mountaineer Guides? Hussam El Chehab1, C. Dot2, J. Blein3, J. Herry4, J. Giraud1, F. May5, J. Renard6. 1Department of Ophthalmology, Val de Grace Military Hospital, Paris, France; 2Desgnettes Military Hospital, Lyon, France; 3Ophthalmologist, Chamonix Mont-Blanc, France; 4Ecole Nationale de Ski et d’Alpinisme, Chamonix Mont-Blanc, France. *CR

6515 — A517 Impact Of Visceral Fat, Serum Leptin Levels And High-sensitive Crp Levels In The Pathogenesis Of Age-related Macular Degeneration. Paulina Haus1, K. Kubista1, W. Krugluger2, J. Huber1, S. Binder1. 1Ophthalmology, Rudolf Foundation Clinic, Vienna, Austria; 2Institute for Laboratory Medicine SMZ-East, Vienna, Austria; 3Gynecology, Medical University of Vienna, Vienna, Austria. *CR

6516 — A518 Correlation of Osteoporosis and Incidence of Skin Cancers and AMD grade in the Irish Nun Eye Study Population. Evelyn Moore1, V. Silvestri2, M. Stevenson3, G. Silvestri4. 1Ophthalmology, Royal Group Hospital, Belfast, Northern Ireland; 2Ophthalmology, Royal Hospital Trust, Belfast, United Kingdom; 3Centre for Public Health, 4Centre for Vision and Vascular Science, Queen’s University, Belfast, United Kingdom.

6517 — A519 Plasma Homocysteine And Extracellular Soluble Receptor For Advanced Glycation End Products (esRAGE) In Aqueous Humor Of Patients With Age-related Macular Degeneration. Pinio Matouda1,2, K. Ninios1,4, N. Zentmary1,2, R. Obeid3, B. Seitz1,4. 1Department of Ophthalmology, 2Department of Clinical Chemistry and Laboratory Medicine, University of Saarland, Homburg, Germany.

6518 — A520 Visual Impairments In Age-related Macular Degeneration To Process Spatial Frequencies During Natural Scene Categorization. Roxandra Herr1, B. Mase1, S. Chokron1, C. Chiquet1, J. Romanet1, J. Le Bas3, P. Carole1. 1Ophthalmology, Hospital Albert Michallon, Grenoble, France; 2Laboratoire de Psychologie et Neurocognition, CNRS UMR 5105, Grenoble, France; 3Fondation Ophthalmologique Rothschild, Unité Fonctionnelle Vision et Cognition, Paris, France; 4Université Joseph Fourier - Institut des neurosciences, INSERM U836, Grenoble, France.

6519 — A521 Contrast Sensitivity As A Predictor Of Central Field Loss. Jennifer Wallis1, P.J. Bex2, L. Lesmes1, T.S. Wallis2, M. Jackson1. 1Vision Rehabilitation, Harvard Medical School/ Massachusetts Eye and Ear Infirmary, Boston, MA; 2Scheepens Eye Research Institute, Harvard Medical School, Boston, MA.

6520 — A522 A Canadian Registry Of Lucentis Treatment To Collect Effectiveness And Safety Data In Patients With Neovascular Age-related Macular Degeneration Over 36 Months (LENS): Findings From A 12-month Interim Analysis. Sebastien Olivier1, A. Charlbonneau1, M. Guainta1, P. Sauvret1, M. Benoit1, B. Rehet2, F. De Takacsy2, R. Li3. 1Ophthalmology, Hospital Maisonneuve-Rosemont, Montreal, QC, Canada; 2Polyclinique de Trois-Rivières, Trois-Rivières, QC, Canada; 3Université de Sherbrooke, Sherbrooke, QC, Canada; 4Clinique ChirurgiVision, Drummondville, QC, Canada; 5Health Sciences Centre-Eye Clinic St-John’s, St-John’s, NL, Canada; 6Everest Clinical Research Services, Inc., Markham, ON, Canada; 7Novartis Pharmaceuticals Canada Inc., Dorval, QC, Canada. *CR

6521 — A523 The Impact Of Anti-vegf Treatment On Vision-related Quality Of Life In Age-related Macular Degeneration Outside Clinical Trials. Robert P. Finger1, J.B. Hassell2, F. Abedi3, M.C. Gillies1, J.E. Kefee1, R.H. Guym1. 1Centre for Eye Research Australia, Melbourne, Australia; 2Save Sight Institute, Sydney, Australia. *CR

6522 — A524 Outcome Study Of Treating Neovascular Age-related Macular Degeneration: Preliminary Results. Margriet I. van der Reis1, M. Elshout1, Y. de Jong - Hesse1, E.C. La Heij1, P.J. Ringens1, F. Hendriks1, C.A. Webers1, J.S. Schouten1. 1Ophthalmology, University Eye Clinic Maastricht, Maastricht, The Netherlands; 2Ophthalmology, VU University Medical Center, Amsterdam, The Netherlands; 3Ophthalmology, University Medical Center Utrecht, Utrecht, The Netherlands.

6523 — A525 Spectral Domain Optical Coherence Tomography Treatment Guidance Of Monthly Follow-up Of Patients With Exudative Age-related Macular Degeneration. Roberto Gallego-Pinazo1, E. Sanz-Marcó1, S. Martinez-Castillo1, R. Dolz-Marcó1, J. Arévalo1, M. Díaz-Llopis2,3,4. 1Ophthalmology, University and Polytechnic Hospital La Fe, Valencia, Spain; 2Retina, Wilmer Eye Institute. Johns Hopkins University School of Medicine, Baltimore, MD; 3King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia; 4Faculty of Medicine, University of Valencia, Valencia, Spain. *CR

6524 — A526 A Review Of The Indications For And Subsequent Visual, Anatomic And Safety Results After Switching From One Anti-VEGF Therapy Agents To Another In AMD Patients. Jennifer A. Day1, S. Dev. VitreoRetinal Surgery, PA, Minnesota, MN. *CR

6525 — A527 One year’s treatment with intravitreal Ranibizumab (lucentis®) and Verteporfin PDT combination therapy at Month 2 for Neovascular Age-related Macular Degeneration (AMD). Eric Fourmaux1, M. Dominguez1, L. Rosier1, L. Velasque1. Retine Tourney, Bordeaux, France.
6526 — A528 Clinical Features Of Self-resolving Sub-foveal Choroidal Neovascularisation in ‘Wet’ Age Related Macular Degeneration. Sharmin Badiei1, N. Patel2, S. Walker2. *CR 1R&D Optics Low Vision, Essilor International, Paris, France; 2Service d’Ophtalmologie, CHU-Bordeaux Universes de Bordeaux, Bordeaux, France; 3Vitreoretinal Unit, Manchester Royal Eye Hospital, Manchester, United Kingdom; 4Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany. *CR

6527 — A529 Novel Methods to Enhance Reading Ability in Patients with Macular Disease. Anthony Fernandes1, D. Roth1, A. Shah1, H. Fine1, J. Prendergast1, W. Feuer1. *CR 1Ophthalmology, William Harvey Hospital NHS trust, Ashford, United Kingdom; 2Duke Univ Eye Center, Durham, NC. *CR

6528 — A530 A French Version Of Skedread To Identify Reading Difficulties Related To Central Scotoma. Anne Catherine Scherlen1, G. Faure2, A. Coursel3. *CR 1R&D Optics Low Vision, Essilor International, Paris, France; 2Hospital La Timone, Marseille, France; 3Bascom Palmer Eye Institute of the University of Miami School of Medicine, Miami, FL. *CR

6529 — A531 Optical Coherence Tomography Hyperreflective Foci Increase in Quantity and Central Foveal Density in Intermediate Age-related Macular Degeneration. Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1, F. Ahdab2, J. Finis3, D. Sillman1. *CR 1R&D Optics Low Vision, Essilor International, Paris, France; 2Hospital La Timone, Marseille, France; 3Low Vision Rehabilitation, Pully, Switzerland; 4SBRi, Inserm U846, Université Lyon1, Lyon, France. *CR


6532 — A534 Reproducibility of Fundus Autofluorescence Patterns in Geographic Atrophy Secondary to Age-Related Macular Degeneration. Marc Biannes, J. Mones, F.M. Trindade. Institut de la macula i de la retina, Barcelona, Spain.


6534 — A536 Evaluation of Peripheral Fundusautofluorescence Changes in Patients with Wet ARMD: The OTELLO Study. Anita Zenger1, M.B. Rougier, H.I., P.E. Staaga, S. Schmitz-Valkenberg1, L. Reznicek1, U.E. Wolf-Schnurrbusch12. 1Bern Photographic Reading Centre, 2Ophthalmology, ‘University Bern, Bern, Switzerland; 3Service d Ophthalmologie, CHU-Bordeaux Universes de Bordeaux, Bordeaux, France; 4Vitreoretinal Unit, Manchester Royal Eye Hospital, Manchester, United Kingdom; 5Ophthalmology, University of Bonn, Bonn, Germany; 6Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany. *CR


6536 — A538 Bilateral Multifocal Electroretinogram Changes After Nanosecond Laser In Subjects With Early Age-related Macular Degeneration. Chi D. Lue, K. Brassingston, G. Makeyeva, R. Guyner. Macular Research Unit, Centre for Eye Research Australia, East Melbourne, Australia.

6537 — A539 Within-visit And Between-visit Repeatability Of The Diagnosys Full-field Stimulus Threshold (D-FST) When Measuring Rod Sensitivity In Patients With Atrophic Age-related Macular Degeneration (ARMD). Martin Klein1, D.G. Birch12, J. Chandler3, J. Enaide1, T. Ishibashi, Sr. *CR 1Ophthalmology, ‘University Hospitals, Fukuoka, Japan; 2Department of Ophthalmology, Kyushu University, Fukuoka, Japan; 3Department of Ophthalmology, Kyushu University, Fukuoka, Japan.

6539 — A541 NMDA-induced Calcium Dynamics Are Altered In Retinas Of Adult Mice Deficient In The Neural Cell Adhesion Molecule (NCAM). Jeremy A. Murphy1, B.A. Daniels1, B.C. Chauhan1, W.H. Bal白领g1. 1Retina and Optic Nerve Research Laboratory, Ophthalmology & Visual Sciences, 2Retina and Optic Nerve Research Laboratory, Ophthalmology & Visual Sciences, 3Anatomy & Neurobiology, 4Retina and Optic Nerve Research Lab, Ophthalmology & Visual Sciences, Physiology & Biophysics, Dalhousie University, Halifax, NS, Canada.

6540 — A542 Involvement of PXF7 receptor and therapeutic efficacy of Brilliant Blue G in a mouse model of subretinal hemorrhage. Shoji Notomi1, T. Hisatomi1, A. Takeda1, Y. Ikeda1, H. Enaide1, T. Ishibashi, Sr. *CR 1Ophthalmology, ‘University Hospitals, Fukuoka, Japan; 2Department of Ophthalmology, Kyushu University, Fukuoka, Japan.

6541 — A543 Changes In P2X Receptor Activity During Retinal Degeneration. Aleksandra Polosukhina, A. Nolbert, I. Tokichyski, R.H. Kramer. UC Berkeley, Berkeley, CA.

6542 — A544 Localization & Physiology of L-type Ca2+ Channels in Human RPE. Qin Yan, V. Raghuram, R. Li, J. Adjanto, R. Fariss, A. Maminishkis, S.S. Miller. NEI/NIH, Bethesda, MD.

6543 — A545 Intercellular Ca2+ Wave Transmission In Human Retinal Pigment Epithelium Cells Induced By Mechanical Stimulation. Anna E. Abu Khmaidakh1, K. Juuti-Uusitalo2, K. Larsson3,2, H. Skottarm1,2, J. Hyttinen1. 1Department of Biomedical Engineering, Tampere University of Technology, Tampere, Finland; 2BioMediTech, Tampere, Finland; 3Institute of Biomedical Technology, University of Tampere, Tampere, Finland.

6545 — A547 Alpha 2 adrenergic agonist receptor in chick retina. Gabriella V. Costa1,2, M.K. Shigetomi1,2, R. Fleming1,2, V.V. Oliveira1,2, A.A. Costa1,2, P. Gardino1,2, A.M. Dantas1,2. 1Institute of Biophysics Carlos Chagas Filho, 2Department of Ophthalmology, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.

6546 — A548 Angiotensin II upregulates MCP-1 Expression through the NF-kB Pathway in Human Retinal Pigment Epithelium. Maria E. Marín Castano, M. Pons. Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.


6548 — A550 Loss of Ife Leads to Progression of Tumor Phenotype in Primary Retinal Pigment Epithelial Cells. Jaya Pranava Gnana Prakasami1, R. Veeranan-Karmegam1, V. Coothankandaswamy1, S.K. Reddy1, P.M. Martin1,2, M. Thangaraju1,2, S.B. Smith1, V. Ganapathy1. 1Biochemistry and Molecular Biology, 2Cellular Biology and Anatomy, 3Georgia Health Sciences University, Augusta, GA.
6549 — A551 Therapeutic Inhibition Of Retinoblastoma By Nanoceria. Kathryn E. Klump1, S.V. Kisseleva1, S. Seal2, M.A. Dyer1, J.F. McGinnis1,2,3. 1Oklahoma Center for Neuroscience, 2Department of Ophthalmology, 3University of Oklahoma Health Sciences Center, Oklahoma City, OK; 4Mechanical Materials Aerospace Engineering, Nanoscience, and Technology Center, University of Central Florida, Orlando, FL; 5Department of Developmental Neurobiology, St. Jude’s Childrens Research Hospital, Memphis, TN; 6Howard Hughes Medical Institute, Chevy Chase, MD. CR

6550 — A552 Inhibition of Protein Glycosylation by Tunicamycin Induces Shortening and Disorganization of Rod Outer Segments and Photoreceptor Degeneration in Mouse. Lauren N. Correa, Y. Li, Z. Wang, P. Chen, Y. Li, B.L. Lam, R. Wen. Bascom Palmer Eye Institute, University of Miami, Miami, FL.

6551 — A553 Absorption Of Spio Nanoparticles Using Different Media On Arpe-19 And Hcec Cell Cultures. Gustavo T. Grottone1, R.R. Loureiro1, J. Couvre1, L. Gamarra1, P. Cristovam1, J.P. Gomes2. 1Ophthalmology, UNIFESP/Santa Casa de Santos, Santos, Brazil; 2Ophthalmology, UNIFESP, Santos, Brazil; 3Oncology, Instituto Israelita de Pesquisas Albert Einstein, São Paulo, Brazil.

6552 — A554 Secretion Of VEGF From Polarized RPE By Tf-a Or Thrombin. Hiroto Terasaki1, M. Shirasawa1, N. Arimura1, S. Sonoda1, T. Sakamoto1. 1Ophthalmology, 2Department of Ophthalmology, Kagoshima University, Kagoshima, Japan.

6553 — A555 CEP290 is Required for Photoreceptor Ciliogenesis and Ventricular Ependymal Cilia Function. Erin Tanamotod, R. Rachel1, M. Devanjan2, J. Manasinghe1, T. Li1, L. Dong1, A. Swaroop1. 1Neurobiol-Neurogenwrn & Repair, NEI, Bethesda, MD; 2NINDS, Bethesda, MD.

6554 — A556 Rapid Photoreceptor Degeneration Occurs In Zebrafish arl13b Mutants Following Suppression Of Pep Signaling. Brian D. Perkins, L. Dudinski. Biology, Texas A & M University, College Station, TX.


6556 — A558 Effect of Storage Temperature on the Viability of Cultured Retinal Pigment Epithelial Cells. Laura Pasovic1, J.R. Iedler1, P. Ashel1, T. Lyberger1, X. Cheor1, T.P. Utheim1. 1Center for Clinical Research, 2Department of Ophthalmology, 3Oslo University Hospital, Oslo, Norway; 4SynsLaser Kirurgi Oslo/Tromso, Oslo, Norway. CR


6559 — A561 Changes In The Expression Of Genes Related To Oxidative Stress In Rdi Mice. Violeta Sanchez-vallejo1, M. Flores-Bellver1, R. Alvarez-Nölling1, S. Johnsen-Soriano1, M. Miranda1, F. Romero Gómez1,2. 1Physiology, Univ CEU Cardenal Herrera, Valencia, Spain; 2Fundación Oftalmológica del Mediterráneo, Valencia, Spain; 3Universidad Católica ‘San Vicente Mártir’, Valencia, Spain.

6560 — A562 The Cysteine Prodrug L-2-Oxothiazolidine-4-carboxylic Acid (OTC) Elicits Potent Antioxidant and Anti-inflammatory Effects in RPE: Relevance to Treatment of Age-Related Macular Degeneration. Wanvisa Promsote1, S. Ananth1, R. Veeranjan-Karmegam1, N. Lambert1, C-C. Chan1, V. Ganapathy1, P.M. Martin1. 1Biochemistry and Molecular Biology, 2Pharmacology and Toxicology, 3Georgia Health Sciences University, Augusta, GA; 4Immunopathology Section, National Eye Institute, Bethesda, MD.

6561 — A563 Cigarette Smoke Induces Endoplasmic Reticulum (ER) Stress in Retinal Pigment Epithelial (RPE) Cells. Marisol d. Lara Pasovic1A, J.R. Eidet1A, A. Swaroop1. 1Ophthalmology, Johns Hopkins University, Baltimore, MD; 2Peptide Institute/Ophthalmology, Johns Hopkins University, Baltimore, MD.

6562 — A564 Whole Number And Spatial Distribution Of The Pou4f Family Of Transcription Factors In The Adult Rat Retina. Francisco M. Nadal-Nicolás1, M. Jimenez-Lopez1, M. Salinas-Navarro2, L. Nieto-Lopez1, A. Ortin-Martinez1,2, C. Galindo-Romero1, M. Sanchez-Migallon1,2, P. Sobrado-Calvo1, M. Vidal-Sanz3, M. Aguado-Barriuso1. 1Unidad de Investigación, Hospital Universitario Virgen de la Arrixaca, Murcia, Spain; 2Dpto Oftalmologia, Universidad de Murcia, Murcia, Spain.


6564 — A566 The mit-183/96/182 Cluster Is Essential For Normal Functions Of The Retina And Other Sensory Organs. Shunbin Xu, S. Lumayag, C. Haldin, C. Covian, B.kovacs. Ophthalmology, Rush University Medical Center, Chicago, IL.

6565 — A567 Putative Role for Melanoregulin (Mrg) in Bisretinoid Lipofuscin Degradation in the Retinal Pigment Epithelium (RPE). Laura S. Frost1, J.R. Sparrow2, F.P. Stefano1, K. Boese-Battaglia1. 1School of Dental Medicine, University of Pennsylvania, Philadelphia, PA; 2Department of Ophthalmology, Columbia University, New York, NY.

6566 — A568 Subretinal gene therapy in Bbs1 mice. Arlene V. Drack, S. Bhattarai, S. Siso, D. Gratte, E.M. Stone, R. Mullins, V. Sheffield. Ophthalmology, Univ of Iowa Hospitals, Iowa City, IA.

6567 — A569 The Influence Of Substrate Elastic Modulus On Retinal Pigment epithelial Cell Phagocytosis. Kieren S. Boochoon1, J.T. Davis1, J.C. Manaranca1,2, A.M. McDermott1,2, W.J. Foster1,2. 1Biology & Ophthalmology, 2Physics, 3Optometry & Vision Science, 4University of Houston, Houston, TX; 5Ophthalmology, Weill-Cornell Medical College, Houston, TX.

6568 — A570 Synergistic interaction of Tubby and Tubby-like Protein 1 (Tulp1). Gabriela S. Alvarado, N.B. Caberoy, Y. Zhou, W. Li. Ophthalmology, Bascom Palmer Eye Inst, Univ of Miami, Miami, FL.

6569 — A571 Delivery of Multifunctional Collagen Constructs for Retinal Stem Cell Transplantation via Lens Sparing Pars Plana Vitrectomy. Hari Jayaram1,2, M.F. Jones1, P.B. Cottrill1, K. Eastlake1, R.A. Brown1, P.T. Khaw1,2, D.G. Charteris1, A. Limb1. 1NIHR Biomedical Research Centre for Ophthalmology, London, United Kingdom; 2Ocular Biology & Therapeutics, UCL Institute of Ophthalmology, London, United Kingdom; 3UCL Institute of Orthopaedics & Musculoskeletal Science, London, United Kingdom.

Thursday – Posters – 6549 – 6571

Hall B/C  A208-A255
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Glucoma / Anatomy & Pathology / Retina / Retinal Cell Biology / Multidisciplinary Ophthalmic Imaging

549 Ganglion Cell Function, Injury, Protection and Imaging

Moderators: James E Morgan and Jonathan G Crowston

6570 — A208 Exogenous PACAP Acts as a Retinoprotective Agent and a Modulator on Microglia/Macrophages Status in Mice NMDA-induced Retinal Injury Model. Yoshihiro Wada1,2, T. Nakamachi1A, D. Endo1B, S. Shioda1B, M. Koide1A,1B, K. Endo1A,1B, T. Seki1A,1B, S. Shioda1B, M. Koide1A,1B. 1Department of Ophthalmology, 2Department of Anatomy, 3Showa University School of Medicine, Tokyo, Japan.

6571 — A209 Increased Neuro-retinal Injury After Intracocular Pressure Elevation In Xenonotrichonchidial Mice And Compensation By Ophthos Complex IV. Ian A. Trounce1, N. Van Bergen1, G. Kong1, V. Chrysostomou1, C.A. Pinkert1, J.G. Crowston1. 1Center for Eye Research Australia, University of Melbourne, Melbourne, Australia; 2College of Veterinary Medicine, Auburn University, Auburn, AL.
Elevated Intraocular Pressure Increases Serine Protease Levels In The Retina And Promotes Retinal Ganglion Cell Loss. Shrinivas K. Chintala, X. Zhang, M. Cheng. Eye Research Institute, Oakland University, Rochester, MI.


Neuroprotective Effect of Epigallocatechin-3-gallate against N-methyl-D-aspartate Induced Excitotoxicity in Rat Retina. Libin Jiang, F. Chen, N. Wang. Eye Center, Beijing Tongren Hospital, Beijing, China.


Down Regulation of BM88 after Optic Nerve Crush. Ahad M. Siddiqui, T.F. Sabljic, A.K. Ball. Pathology and Molecular Medicine, McMaster University, Hamilton, ON, Canada.

Effects Of 24S-hydroxycholesterol On Primary Glial Müller Cells. New Insights On Müller Cells Function And Cholesterol Homeostasis In The Retina. Cynthia Fourgeau1, L. Martine1, L. Leclere1, B. Buteau1, A. Bron2, C-G. Catherine2, L. Bretillon1. INRA, University of Rennes 1, INRA, University of Rennes 1, INRA, University of Rennes 1.

Acute Subretinal Injections of an AAV Vector Expressing VEGF Improves Retinal Function in a Mouse Model of Retinal Ischemia. Won-Kyu Ju1A, D. Lee1A,2, K-Y. Kim1B, Y. Jha, V.V. Lyzogubov, P.S. Bora, N.S. Bora. Department of Ophthalmology, Eye & ENT Hospital, Fudan University, Shanghai, China.


tRNA-dependent 60s ribosomal protein L29 promotes retinal ganglion cell survival following optic nerve crush. Seok-Hwan Kim1, J. Park2, M. Kim1, M. Kim1, D. Kim1, J. Jeong1, T-W. Kim1, K. Park2. Ophthalmology, Boramae Medical Center, Seoul, Republic of Korea; Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; Ophthalmology, Seoul National University Bundang Hospital, Kyunggi, Republic of Korea; Ophthalmology, Seoul National University Bundang Hospital, Seongnam, Republic of Korea.

Oxidized Low-Density Lipoprotein Induces Apoptosis In Retinal Ganglion Cells In An Optic Nerve Crush Mouse Model. Xin Xia1,2, Y. Li1, Z. Wang1, L. Luo1, R. Wen1. Bascom Palmer Eye Institute, University of Miami, Miami, FL; Department of Ophthalmology, Shanghai First People’s Hospital, Jiaotong University, Shanghai, China.


Effect Of γ-Synuclein Antibody On Rge5 And Mitochondrial Apoptosis Pathways. Corina Wilding, K. Bell, F. Grus, N. Pfeiffer. Experimental Ophthalmology, Mainz, Germany.

Down Regulation Of 14-3-3 Ab In Glaucoma Patients Could Lead To Loss Of Protective Effects. Katharina Bell, C. Wilding, N. Pfeiffer; F.H. Grus. Experimental Ophthalmology, Medical Centre University of Mainz, Mainz, Germany.

The TRPV1 Response to Stress Of Retinal Ganglion Cells. Nicholas J. Ward, K.W. Ho, T.N. Sidorova, D.J. Calkins. Ophthalmal & Vis Sciences, Vanderbilt Eye Institute, Nashville, TN.

The ONCE 3-Release From Retinal Ganglion Cells Is Protective And Involves The P2X7 Receptor. Jason C. Lim1, W. Lu1, J.M. Beckel1, M. Buel1, J. Xia1, E.J. Macar1, A.M. Lattes1, C.H. Mitchell1,2,3. 1Anatomy and Cell Biology, 2Ophthalmology, 3Physiology, 4University of Pennsylvania, Philadelphia, PA.


ShH10, A Novel Müller Gli Speciﬁc AAV Vector, Expressing GDNF Promotes Retinal Ganglion Cell Survival Following Neuronal Injury In Thy-1-YFP Mice. Chendong Pan1, L. Guo1, S. Gu1, T.W. Calhberg, Jr1, D. Safter2, J.G. Flannery3, A.M. Demetriades1. 1Glaucoma Research Laboratory, Dyson Institute, Weill Medical College of Cornell University, New York, NY; 2Avalanche Biotechnologies, Inc, Redwood City, CA; 3Helen Wills Neuroscience Institute, University of California, Berkeley, Berkeley, CA. *CR

Membrane Attack Complex Induces Apoptosis In Retinal Ganglion Cells In Chronic Ocular Hypertension Model. Purushottam Jha, V.V. Lyzogubov, P.S. Bora, N.S. Bora. Ophthalmology, Jones Eye Institute - UAMS, Little Rock, AR.
**Thursday – Posters – 6598 – 6618**

**References:**

1. **6598 – A236** Differential Expression of CCL5 Receptors in Acute and Chronic Murine Models of Glaucoma.

2. **6599 – A237** Alpha-1 Adrenergic Receptor Stimulation Induces Ocular Disease via TGFBeta-Mediated Mechanisms.

3. **6600 – A238** TRPV1 Subunit Interactions in the Rodent Retina: Implications for Neurodegeneration in Glaucoma.
   Tatiana N. Sidorenko, D.J. Calkins.

4. **6601 – A239** S1it2 Delays The Death Of Retinal Ganglion Cells After Optic Nerve Crush Injury.
   Thomas F. Sabljić, A. Ball.

5. **6602 – A240** Subtype- and Location-Dependent Degeneration of Retinal Ganglion Cells in a Mouse Model of Ocular Hypertension.

6. **6603 – A241** Mechanosensitive Channels In Isolated Rat Retina Ganglion Cells: Response To Strain From Within Neurons.
   Jingsheng Xia, A. Ball.

7. **6604 – A242** Retinal ganglion cell morphology is not affected by chronic experimental glaucoma in mice selectively expressing Yellow Fluorescent Protein.
   Giedrius Kalesnykas, E. Osghesby, F. Cone, M. Steinbart, M. Pease, H. Quigley.

8. **6605 – A243** Assessment of Retinal Ganglion Cell Complex with Optical Coherent Tomography (OCT) in the Diagnosis of Glaucoma.
   Armine Kazaryan, L. Obvanseva.

9. **6606 – A244** Alteration Of Lymphocyte Levels In An Autoimmune Model Of Retinal Ganglion Cell Loss.


12. **6609 – A247** Aquaporins in glaucoma eyes.


14. **6611 – A249** Stress-Induced Uptregulation and Translocation of TRPV1 in Retinal Astrocytes.
    Karen W. Ho.

15. **6612 – A250** Enhancement Of Stem Cell Integration Into The Retina By Modulating Gial Reactivity In An In-vitro Stem Cell Transplantation Model.


22. **6619** Montreal Cataract Surgery I

**Moderator:** Steven Bassnett

**References:**

1. **6619** Montreal Cataract Surgery I

**References:**


2. **6619 – A608** MRI Research, Inc, Middleburg Heights, OH; Psychology, University of Southern California, Los Angeles, CA; Ophthalmology, University of Utah/Moran Eye Center, Salt Lake City, UT; MRI Research Inc, Middleburg Heights, OH; Ophthalmology, University of Southern California/Doheny Eye Institute, Los Angeles, CA.

**Moderator:** Steven Bassnett

**References:**

1. **6619** Montreal Cataract Surgery I

**References:**


2. **6619 – A608** MRI Research, Inc, Middleburg Heights, OH; Psychology, University of Southern California, Los Angeles, CA; Ophthalmology, University of Utah/Moran Eye Center, Salt Lake City, UT; MRI Research Inc, Middleburg Heights, OH; Ophthalmology, University of Southern California/Doheny Eye Institute, Los Angeles, CA.

**Moderator:** Steven Bassnett
**Thursday Poster Schedule**

**11:15 am – 1:00 pm**

- **11:15 am – 1:00 pm**
  - **Aravind Pseudoexfoliation Study (APEX) I: Intraoperative Results.**
    - Aravind Eye Hospitals and Post Graduate Institute of Ophthalmology, Madurai, India.
  - **Ophthalmology, Hanusch Hospital, Vienna, Hietzing Hospital, Vienna, Austria; 2Department of Ophthalmology, Corinne Dot, H. El-Ofaltalmologia, Coherence Interferometry, Axial Length Measurement.**
    - Corinne Dot, H. El-Ofaltalmologia, Coherence Interferometry, Axial Length Measurement.
    - 2Department of Ophthalmology, Ophthalmology, Hanusch Hospital, Vienna, Austria.
  - **Optics, Santa Ana, CA; 3Cornea, International Center, Munich, Germany; 3OMMA Eye Center, Athens, Greece.**
    - Optics, Santa Ana, CA; 3Cornea, International Center, Munich, Germany; 3OMMA Eye Center, Athens, Greece.
  - **Ophthalmology, Hopital Desgenettes, Lyon Cedex, France; 2Abbott Medical Optics, Santa Ana, CA; 3Cornea, International Center, Munich, Germany.**
    - Ophthalmology, Hopital Desgenettes, Lyon Cedex, France; 2Abbott Medical Optics, Santa Ana, CA; 3Cornea, International Center, Munich, Germany.
  - **University of California, Irvine CA, San Diego, CA; 4University of California, San Francisco, CA.**
    - University of California, Irvine CA, San Diego, CA; 4University of California, San Francisco, CA.
  - **Surgical Simulator.**
    - Surgical Simulator.
  - **Clinic & Ophthalmal, UMEA University, UMEA, Sweden.**
    - Clinic & Ophthalmal, UMEA University, UMEA, Sweden.
  - **Catalunya, Terrassa, Spain.**
    - Catalunya, Terrassa, Spain.
  - **Ophthalmology, GM St. Mary eye center, Busan, Republic of Korea; Ophthalmology, Haendae Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea.**
    - Ophthalmology, GM St. Mary eye center, Busan, Republic of Korea; Ophthalmology, Haendae Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea.
  - **Silicone Sleeve Polishing Of Posterior Capsule, A Safe And Costless I/A Technique.**
    - Ophthalmologie, Hopital d’Instruction des Armees du Val de Grace, Paris, France; Ophthalmologie, Hopital d’Instruction des Armees Desgenetess, Lyon, France.
  - **Micromanipulation and Intraocular Lens.**
    - Micromanipulation and Intraocular Lens.
  - **Objective Discrimination Between Operable And Non-operable Cataracts.**
    - Xemifalotomo, ILAV, CONICET - UNT, San Miguel de Tucuman, Argentina;
    - CD6-Optica i Optometria, Universitat Politenica Catalunya, Terrasa, Spain.
  - **Quantitative Evaluation Of Aspheric Diffractive and Apodized Diffractive Aspheric Multifocal IOLs.**
    - Dwayne K. Logan, E. Sadri.
    - Cataract and Refractive Surgeons, Atlantis EyeCare, Long Beach, CA; Cataract and Refractive Surgeons, Atlantis EyeCare, Newport Beach, CA.
  - **Quantitative Evaluation Of The Effect Of Oral Propranolol And Sublingual Moraxa On Hand Tremor And Its Effect On Surgical Performance.**
    - Hospital Nuestra Senora de la Luz, Mexico, Mexico.
  - **Postoperative Refractive Error After Simultaneous Vitrectomy and Phacoemulsification with Sulcus Fixation of Intraocular Lens, eek soo suh, S. Lee, J. Chun.**
    - Department of Ophthalmology, Dongguk University Gyeongsan Hospital, Gyeongsan, Republic of Korea.
  - **Evaluation Of Subjective Outcomes With Two Presbyopia-correcting IOLs Following Phacoemulsification.**
    - Larry Katzen.
    - Katzen Eye Care & Laser Ctr, Boynton Beach, FL.
  - **Randomized Comparison of a Transversal Ultrasound vs. a Torsional Handpiece in Phacoemulsification: A Contralaterally-Controlled Trial.**
    - Kerry Assil, W. Christian, L. Harris.
    - Assil Eye Institute, Beverly Hills, CA.
  - **Continuous Intraocular Pressure Measurements During Small Incision Phacoemulsification Surgery In Porcine Eyes.**
    - Seung Youn Jeu, M. Son, T. Baek, J. Lee.
    - Ophthalmology, GM St. Mary eye center, Busan, Republic of Korea; Ophthalmology, Haendae Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea.

*Please refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – Refer to Program Number in the Clinical Trial (CT) Registration Index – Travel Grant Awardees*
6644 — A633 Comparison of surgically-induced astigmatism after a 2.2 mm vs. 2.6 temporal corneal incisions in more than 2 years follow-up. Lei Zheng, J.C. Merriam. Ophthalmology, Columbia Univ-Harkness Eye Inst, New York, NY.


6646 — A635 The Effect Of Anterior Capsulorhexis Optic Capture Of A Sulcus Fixed Iol Implant On Refractive Outcome. Eoghan R. Millar1, K. Merchanti1, D. Steel1. 1Royal Victoria Infirmary, Newcastle upon Tyne, United Kingdom; 2Sunderland Eye Infirmary, Sunderland, United Kingdom.

6647 — A636 Comparison Of Visual Outcomes Of Toric Intraocular Lenses Implanted By Resident Surgeons Using Keratometry Measurements From An Autorefractor Or The IOLMaster In The Setting Of A Veterans Hospital. Benjamin A. Katz1, C.R. Blake2, S.W. Ross3. 1Ophthalmology, University of South Carolina, Columbia, SC; 2Ophthalmology, Dorn Veterans Hospital, Columbia, SC.

6648 — A637 Iris-sutured Posterior Chamber Intraocular Lenses: Visual Results And Complications About 76 Cases. Olivier Le Moigne, M. Muraine, O. Genevois. Rouen University Hospital, Rouen, France.

6649 — A638 Customizing Near Vision In Patients Implanted With Light Adjustable Iols With An Adaptive Optics Visual Analyzer. Eloy A. Villegas1, G.M. Perez2, E. Alcon1, S. Mirabet1, I. Yago2, J. Marin1, P. Artal1. 1Laboratorio de Optica, Universidad de Murcia, Murcia, Spain; 2Oftalmologia, Hospital Virgen de la Arrixaca, Murcia, Spain. *CR

6650 — A639 Evaluation of Aspheric Diffractive Multifocal and Accommodating Intraocular Lenses. Stuart I. Kaplan, F.C. Tyson. General,Contact Lenses, Ocular Disease, Cape Coral Eye Center, Cape Coral, FL. *CR

6651 — A640 Refractive Results Of Combined Cataract And Glaucoma Surgery At A VA Hospital. Christopher T. Shah1, J. Tzu2, A. Galor3, A.K. Junk2ur, C.W. See2, S.R. Weller3. 1College of Human Medicine, Michigan State University, Grand Rapids, MI; 2Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL; 3Ophthalmology, Miami Veterans Affairs Medical Center, Miami, FL; 4Columbia University, New York, NY; 5Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Plantation, FL.


6654 — A643 Clinical Outcomes at a VAMC after the Introduction of Universal NSAID Therapy Perioperatively in Cataract Patients. Cameron C. Johnson1, R.A. Rombola, II1, P.J. Krall4. 1Ophthalmology, Medical University of Florida, Gainesville, FL.


6656 — A645 Sutureless translaser Intraocular Lens implantation after ocular trauma. Malek Khouani1, D. Gaucher2, T. Bourcier3, C. Speeg2, M. Monnard1, B.Y. Delbos3, M. Saleh2. 1ophthalmology, University Hospital of Besancon, Besancon, France; 2ophthalmology, Hospital Civil de Strasbourg, Strasbourg, France; 3ophthalmology, University Hospital of Besancon, Besancon, France; 4ophthalmology, Centre Hospitalier Universitaire Besancon, Besancon, France; 5ophthalmology, Univ Hosp, Besancon, France.


6658 — A647 Change In Central Corneal Volume After Cataract Surgery, Melissa M. Wong1, A. Shukla2, W.M. Moorj. 1ophthalmology, Boston Univ School of Med, Boston, MA; 2ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA.


6661 — A650 Central Corneal Thickness Related to the Volume of BSS Plus used during Phacoemulsification. Erin Lessner, B. Markowitz, K. Banks. Ophthalmology, University of South Carolina, Columbia, SC.

6662 — A651 Preoperative Cataract Density Grading by Scheimplug Imaging and its influence on operative fluids and phacoemulsification energy. Jesus Arrieta-Camacho1, V. Estefan1, A.J. Ramirez-Miranda, E. Chavez Mondragon1. 1Anterior Segment, Inst de Oftalmología CONV AL, Mexico City, Mexico; 2Cornea and refractive Surgery, Instituto de Oftalmología Con de Valenciana, Mexico City, Mexico.


6664 — A653 Shadowphotomography of IOL Injectors and Clear Cornea Incision Size. Alejandro Arboleda1, E. Arrieta1, D. Nankivil5, M.C. Aguilar2, K. Sotolongo, S.H. Yoo3, J-M.A. Parel1. 1Ophthalmic Biophysics Center, Dept. of Ophthalmology, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL; 2Biomedical Optics and Laser Laboratory, Dept. of Biomedical Engineering, University of Miami College of Engineering, Coral Gables, FL. *CR


6666 — A655 Improvement in Quality of life following Monocular or bilateral cataract extraction with lens implantation in patients in Lima Peru. Andrea P. Dreyfuss. adeyita@stanford. edu, Stanford School of Medicine, Stanford, CA.

6667 — A656 Management of Retained Lens Fragments After Phacoemulsification: Comparing Visual Outcomes of Early Pars Plana Lensectomy versus Late Pars Plana Lensectomy. Geralieh Abedi1, T. Cleland, L. Marouf. 1Department of Ophthalmology, Univ of Texas Health Sci Center, San Antonio, TX; 2Retina Associates of South Texas, San Antonio, TX.

6668 — A657 The Effect of Posterior Capsule Polishing on Posterior Capsule Opacification. Jeanie V. Paik1, M. Shiloach2, M.S. Maccall-Kaplan1. 1University of Chicago, Chicago, IL; 2NorthShore Univ Health System, Glenview, IL; 3Ophthalmology, NorthShore Univ Hlth System, Glenview, IL.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – 1 CR Refer to Program Number in the Clinical Trial (CT) Registration Index – 1 Travel Grant Awardee
6669 — A658 Retrospective Evaluation of Tecnis Multifocal (ZMA00 or ZMB00) and ReSTOR (SN60D1) Intraocular Lenses Following Phacoemulsification. Gabriela Perez, J.A. Khell, A. Khsetrapal, W. Trattler, C. Buznego, F. Spektor. Ctr for Excellence in Eye Care, Miami, FL. *CR, P


6671 — A660 Comparison of Intraocular Pressure by Tonopen vs Palcation after Cataract Extraction. Jeffery C. Hinson, Jr. Ophthalmology, University of South Carolina, Columbia, SC.

6672 — A661 Evaluation Of Photorefractive Keratectomy Enhancement For Optimizing Refractive Error In Patients With An Implanted Alcon Acrysof Toric Iol. Eric Liss1, G. Perez2, G. Lacayo1, R.B. Simon1, J.A. Khalil1, W. Trattler3, C. Buznego1, B. Mendelsohn3. *FU Herbert Wertheim College of Medicine, Sarasota, FL; 2Ctr for Excellence in Eye Care, Miami, FL; 3Columbia University, New York, NY.


6674 — A663 The Effect of Acute Heat Stress on Lens Epithelial Cells: A Novel Therapeutic Strategy for Posterior Capsule Opacification. Matthew Balazsi1, B.F. Fernandes2, S. Di Cesare3, S.C. Maloney1, T.J. Granner4, M.N. Burnier, Jr.5. 1Henry C Witelson Ocular Pathology Laboratory, Montreal, QC, Canada; 2Ocular Pathology, 3Ophthalmology, McGill University, Montreal, QC, Canada. *CR


6679 — A669 Morgagnian Cataract Simulating Iris Neoplasia: Case Report. Alessandra Protti1, S.A. Gandolfi2, P. Morai1, L. Zografos2. 1Ophthalmology, University of Parma, Parma, Italy; 2Ophthalmology, Jules-Gonin Eye Hospital, Lausanne, Switzerland.

6680 — A670 The Efficacy of Soap and Water Versus Bleach for the Disinfection of Gonioscopy and Laser Lenses. Ninel Z. Gregori1, A. Abbey1, D. Miller2. 1Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 2IUS Eye Institute of University of Miami Miller Sch of Med, Miami, FL.

Hall B/C D701-D729

Thursday, May 10, 2012, 11:15 AM-1:00 PM

Lens 552 Cataract Complications and Drugs

Moderator: Paul G FitzGerald

6681 — D701 Conjunctival Bacterial Flora And Antibiotic Resistance Patterns After Preoperative Application Of Topical Levofloxacin 0.3%. Herminia Mino de Kaspar1, L.E. Hoffmann1, L. He2, B. Li1, M.M. Nentwich1, C. Hartiglou1, D. Kook1, M. Grueterich1, A. Kampik1. 1Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; 2Department of Ophthalmology, School of Medicine, Stanford University, Stanford, CA.

6682 — D702 Hypertension Complicated by Cardiovascular Disease is an Important Risk Factor for the Development of Intraoperative Floppy Iris Syndrome. Cynthia I. Tsung1, G. Vizzieri1, B. Luu1, T.C. Prugger1, J.M. George1, O.I. Alsheikh1. 1Ophthalmology and Visual Sciences, University of Texas Medical Branch, Galveston, TX; 2Ophthalmology and Visual Science, University of Texas Health Science Center at Houston, Houston, TX.

6683 — D703 Is Topical Ketonol Tromethamine 0.4% Ophthalmic Solution Needed for Cataract Surgery? A Randomized Controlled Trial. Flavia G. Ticly1, G. FitzGerald1, P. A. Legoutko2, M.K. Daily1. 1Ophthalmology, Veterans Affairs Boston Healthcare System, Boston, MA; 2Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 3Vision Health, Novato, CA.


6688 — D708 Management Of Vitreal Loss From Posterior Capsular Rupture During Cataract Operation: Posterior Versus Anterior Vitrectomy? Chaerin Park1,2, S. Wool1, J. Hyon1, T. Kim1, K. Park1. 1Department of Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; 2Seoul Artificial Eye Center, Institutes for Biomedical Research, Seoul National University Hospital, Seoul, Republic of Korea; 3Department of Ophthalmology, Seoul National University Bundang Hospital, Seongnam, Republic of Korea.


6690 — D710 Clinical Efficacy Of Loteprednol Etabonate Gel 0.5% In The Treatment Of Ocular Inflammation And Pain After Cataract Surgery. Rajesh K. Raipal1, R. Siou-Mermet2, T. Erb3, T.L. Comstock1. 1Cornea Consultants, PC, McLean, VA; 2European Pharmaceutical Clinical Science, Bausch & Lomb, Montpellier, France; 3Biosatistics, 4Medical Affairs, Global Pharmaceutical, Bausch & Lomb, Rochester, NY. *CR, P

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – ▲ Refer to Program Number in the Clinical Trial (CT) Registration Index – Travel Grant Awardee

402

6692 — D712 Effect of Modified Cyclosporine A on Lens Epithelial Cell and Corneal Endothelial Viability. Elizabeth A. Lutz1, A.J. Geminsey-Metzler2, H.L. Chandler2. 1Veterinary Clinical Sciences; 2Optometry, The Ohio State University, Columbus, OH.


6694 — D714 Incidence Of Postoperative Complications In Infants Undergoing Bilateral Simultaneous, Bilateral Sequential, Or Unilateral Cataract Surgery. Sheela Masiri1, E. Agabegi1, B. Schnell2, M.B. Yang1, A. Mozayan1,2, J. Prince-Wolfish1, J. Cotliar1, A. Nessim1,2, P. Pandy1, M. Tahan2, P. Good1, S. Dar1, C. Wielgorski1, T. Galecki1, J. Szaflik6. 1Ophthalmology, Kresge Eye Institute, Detroit, MI; 2Ophthalmology, Loma Linda University Medical Center, Kankakee, IL; 3Ophthalmology, Columbus Eye Centre, Columbus, OH; 4Ophthalmology, University of Texas Southwestern Medical Center, Dallas, TX; 5Ophthalmology, Univ of TX Southwestern Med Ctr, Dallas, TX; 6Ophthalmology, Knoepfler Eye Institute, Rochester, NY.

6695 — D715 Safety Of Difluprednate 0.05% after Cataract Surgery in Glaucoma Patients. Jessica Prince-Wolfish1, A. Mozayan1, A. Nessim1,2, P. Pandy1, M. Tahan2, P. Good1, S. Dar1, C. Wielgorski1, T. Galecki1, J. Szaflik6. 1Ophthalmology, Kresge Eye Institute, Detroit, MI; 2Ophthalmology, Loma Linda University Medical Center, Kankakee, IL; 3Ophthalmology, Columbus Eye Centre, Columbus, OH; 4Ophthalmology, University of Texas Southwestern Medical Center, Dallas, TX; 5Ophthalmology, Univ of TX Southwestern Med Ctr, Dallas, TX; 6Ophthalmology, Knoepfler Eye Institute, Rochester, NY.


6697 — D717 Intraocular Pressure Response in Glaucoma Patients Using Difluprednate 0.5% Post Operatively after Phacoemulsification. Melissa M. Cable. Discover Vision Centers, Independence, MO.*CR


6700 — D720 Subconjunctival Steroid Injection versus Steroid Eyedrops: Evaluation of the Inflammation Reaction after Phacoemulsification. Myrthe Dieleman1, R.J. Wubels2, P.W. de Waard3, 4. 1Rotterdam Ophthalmic Institute; 2Glaucoma; 3Rotterdam Eye Hospital, Rotterdam, The Netherlands. $CR


6703 — D723 Complications of Phacoemulsification After Repeated Intravitreal Injections. Michael J. Coleman, Jr., M. McDermott. Ophthalmology, Kresge Eye Institute, Detroit, MI.


6706 — D726 Risk Factors For Developing Capsular Distension Syndrome. Maged Nessim1,2, P. Pandy2, M. Tahan2, P. Good2, A-J. Ghawri1. 1Glaucoma Services, 2Visual Sciences, Birmingham & Midland Eye Centre, Birmingham, United Kingdom; 3Sandwell General Hospital, Birmingham, United Kingdom.


6708 — D728 Factors Influencing Retinal Image Contrast in Eyes with Retrodots(Ryectjivat Eye Study). Kota Nagai1, N. Mita1, N. Hatusaka1, H. Honda1, H. Osada2, E. Kubo2, H. Sasaki2, K. Sasakib, F. Jonasson3. 1Ophthalmology, Nagai Eye Clinic, Ibaraki, Japan; 2Department of Ophthalmology, Ophthalmology, 3Div.of Vis Rsch for Environ Hlth, Kanazawa Medical University, Uchinada, Japan; 4Ophthalmology, 5Dept of Ophthalmology, 6Dept of Ophthalmology, 7Kanazawa Medical University, Kahoku-gun, Japan; 8Kanazawa medical university, Uchinada, Japan; 9Ophthalmology, Iceland University, Iceland, Iceland.

6709 — D729 Ultrastructural Changes In The Crystalline Lens Of Diabetic Patients Treated With Panretinal Argon Laser Photocoagulation. Zelilha Izar1, M. Kille1, E. Erdemli1, F. Topal Celikkan1. 1Ophthalmology, Ankara Numune Education and Research Hospital, Ankara, Turkey; 2Histology, Ankara University Medicine Faculty, Ankara, Turkey.

Hall B/C  D730-D762
Thursday, May 10, 2012, 11:15 AM-1:00 PM

Lens

553 Cataract Training, Modeling, Pediatrics

Moderator: Paul G FitzGerald

6710 — D730 A Comparison of the Outcomes of Resident-Performed Phacoemulsification in Patients on Alpha Blockers Before and After the Description of Floppy Iris Syndrome (IFIS). Asher Neren1, A. Greenberg1, E. Burstein1, C. Mukhopadhyay2, A. Schrier1, E. Smith1. 1Ophthalmology, VA Medical Center Brooklyn, Brooklyn, NY; 2Ophthalmology, Columbia University Medical Center, New York, NY.

6711 — D731 Optimization of the A Constant for the SRK/T Formula. Eva Nong1, J.C. Merriam1, L. Zhang1, M. Schlesinger1, 2. 1Ophthalmology, 2Biostatistics, Columbia University, New York, NY.


6713 — D733 Determination of Endotoxin Concentration in Hyaluronic Acid by The Light Scattering Method. Taiki Ohashi1, Y. Sugiyara1, T. Asano2, T. Hirono2, M. Sawa2. 1Division of Ophthalmology, Department of Visual Sciences, Nihon University School of Medicine, Tokyo, Japan; 2Biophotonics Section, Research & Development Department, Electronics & Optics Division., Kowa Company Ltd., Tokyo, Japan.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – $CR Refer to Program Number in the Clinical Trial (CT) Registration Index – $CR Travel Grant Awardee
Thursday Posters
11:15 am – 1:00 pm

D736  The accuracy of intraocular lens formulas in children ages 2 to 18 at Children’s Medical Center of Dallas. Zachary Vest, S. Wang. Ophthalmology, UT Southwestern, Dallas, TX.

D737  Risks Factors and Regression Model for Risk Calculation of Anesthesiologic Intervention in Routine Cataract Surgery. Javier Moreno-Montanes, Sr.1, A. Sabater1, J. Barrio-Barrio1, J. Pérez-Valdivieso1, E. Cacho-Asenjo1, M. García-Granero2. Ophthalmology, Anesthesiology, Clinica Universidad de Navarra, Pamplona, Spain; Genetica, Universidad de Navarra. Unidad de Estadistica, Pamplona, Spain. *CR


D739  Resident Cataract Surgery Outcomes with Toric Intraocular Lenses. Helen R. Moreira1, P.B. Greenberg, MD2. Division of Ophthalmology, Section of Ophthalmology, Providence Veterans Affairs Medical Center, Providence, RI.


D741  Vector Analysis of Induced Astigmatism after 2.2 mm and 2.6 mm Scleral Incisions. Peter Jeppesen, T.K. Olsen. Ophthalmology, Aarhus Univ Hospital, Aarhus, Denmark.


D743  Relation between some IOL Injectors and Clear Cornea incision size in the rabbit model. Esdras Arrieta, D. Nankivil, K. Sotolongo, A. Arboleda, M.C. Aguilar, E. Hernandez, S. Vargas, H. Belyea, A.P. Brezin. Department of Ophthalmology, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL. *CR


D745  Validity of a Miniaturised Openfield Aberrometer with Surgical Application. James S. Wolffsohn1, U.K. Bhattacharji, A.L. Sheppard2, S. Shah1, H. Dua1, T. Mihashi1, T. Yamaguchi1. School of Life and Health Sciences, Aston University, Birmingham, United Kingdom; ‘Midland Eye Institute, Birmingham, United Kingdom; ‘Ophthalmology, Nottingham University, Nottingham, United Kingdom; ‘Topcon, Tokyo, Japan. *CR


D747  In Situ Modification of Customized IOLs using the Phase Wrapping Algorithm. Ruth Sahler1, J.F. Bille2, R. Aguilera1, S. Zhou1, D. Schanzlin1. Medical Physics, University of Heidelberg, Heidelberg, Germany; ‘Physics, University of Heidelberg, Mannheim, Germany; ‘Aaren Scientific Inc, Ontario, CA; ‘R&D, Aaren Scientific Inc, Irvine, CA; ‘Shiley Eye Center, UCSD, San Diego, CA. *CR


D749  Effects Of Cumulative Dissipated Energy On Postoperative Corneal Pachymetry In Resident Performed Cataract Surgery. Adam G. Chou. Ophthalmology, Univ of S Carolina, School of Medicine, Columbia, SC.

D750  A Comparison of the Cataract Extraction Operating Times When Using a Posterior Chamber Monofocal Versus Toric Intraocular Lens as Performed by Resident Surgeons. Solomon W. Ross1, B.A. Katz1B. Ophthalmology, University of South Carolina, Columbia, SC; ‘Ophthalmology, University of South Carolina, Irmo, SC.

D751  Biometric Parameters Before And After Mydriasis. Jonathan Shahar, N. Fisher, E. Rosenfeld, S. Kurtz. Tel Aviv Medical Center, ophthalmology department, Sackler faculty of Medicine, Tel Aviv University, Tel Aviv, Israel.


D754  Toric Intraocular Lenses—The Resident Experience. Zain A Al-Mohtabee, M. Weikert. Ophthalmology, Baylor College of Medicine, pearland, TX.

D755  Comparison Between Objective And Subjective Assessment Of The Duration Of Cataract Surgery. Brivael Le De4, C. Temset1, P-R. Rothschild2, O. Rostaquoi4, J-B. Daudin1, D. Monnet, Sr.1, S. Grabar3, A.P. Breviz, Sr.1. ‘Hospital Eye Clinic, ‘Biostatistics and epidemiology, ‘Cochin Hospital, Paris, France.
6751 — D771 Modified Frontalis Sling with Lash Repositioning in Pediatric Ptosis Repair. Jacqueline K. Ng, J. Ng. Ophthalmology, Oregon Health and Science University, Portland, OR.


6753 — D773 Curled Lashes are Associated with Obstructive Sleep Apnea. Cara W. Snyder, Y. Enzer. Ophthalmology, Brown University, Providence, RI.


6756 — D776 Intraperative Mitomycin C To Retard Future Cicatricial Lid Retraction Repair. Renelle Pointdujour1, J. Gutman1, C. Calderon1, P. Langere, R. Shinder1. Ophthalmology, SUNY Downstate Medical Center, Brooklyn, NY; Ophthalmology, University of Medicine & Dentistry of New Jersey, Newark, NJ.

6757 — D777 Repair of pediatric canicular lacerations using monocanicular Monoka stent. Scott W. Yeutes, F. Orge. Ophthalmology, Univ Hosp Case Western Med Ctr, Cleveland, OH.

6758 — D778 Method for Measuring Lacrimal Drainage Resistance. Milap Mehta1, J.D. Perry2. Ophthalmology, Cleveland Clinic-Cole Eye Inst, Cleveland, OH; Ophthalmology, Cole Eye Institute, Cleveland, OH.


6760 — D780 Catheter Assisted Conjunctivodacryocystorhinostomy (CDCR) for Improved Surgical Efficiency. Charlene H. Crockett, S. Lee, M.T. Yen. Department of Ophthalmology, Baylor College of Medicine, Cullen Eye Institute, Houston, TX.

Hall B/C D781-D803
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Clinical & Epidemiologic Research

555 Pediatric Ophthalmology

Moderator: Mieko Tsuruoka

6761 — D781 Retrospective Review Of Records From A School Based Vision Clinic Serving The Chicago Community. Sandra S. Block, M. Suckow, S. Reed. School-Based Vision Clinic, Illinois College of Optometry, Chicago, IL.

6762 — D782 Refractive Error in Preschool-Aged Children: Sydney Paediatric Eye Disease Study (SPEDS). Sonia Afsari1, K.A. Rose2, A. Pai1, J. Leome3, P. Mitchell. Ophthalmology, University of Sydney, Sydney, Australia; Discipline of Orthoptics, University of Sydney, Lidcombe, Australia.

6763 — D783 Outcomes Associated with Cataract Surgery in the Pediatric Medicaid Population. Michelle Tarver1, M.K. Repo1, H. Silverman1, R. Domurat1, N. Kordic1, T. Mauer1. Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD; Acumen, LLC, Burlingame, CA.


6765 — D785 Coagulopathy and Retinal Hemorrhage in Pediatric Head Trauma. Aida Bounama1,2, B.J. Forbes1, C.W. Christian1, J. Huang1, G-S. Ying1, K.E. Romero1, J.P. Antigua1, G. Binenbaum2. Ophthalmology, Pediatrics, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA; Ophthalmology, Pediatrics, Children’s Hospital of Philadelphia, Philadelphia, PA; Pediatrics, University of California San Diego, San Diego, CA.

6766 — D786 Evolution Of Axial Length In Congenital Glaucoma. Bruno Sautiere1, A. Duhamel1, A. Galet1, J-F. Rouland1. Ophthalmology, Anestheis, Huriez Hospital, CHRU Lille, Lille, France; Biostatistics unit, CHRU Lille, Lille, France.

6767 — D787 Central Corneal Thickness and Intraocular Pressure in Moderate-Late Premature School Aged Children. Lina H. Raffa1, J. Dahlgren1, A-K. Karlsson1, M.A. Gronlund1. Department of Ophthalmology, Institute of Neuroscience and Psychology, Gothenburg, Sweden; Department of Pediatrics, Institute of Clinical Sciences,The Sahlgrenska Academy at the University of Gothenburg, Gothenburg, Sweden; Department of Ophthalmology, Institute of Neuroscience and Psychology, Gothenburg, Sweden.
6768 — D788 Access To Government-insured Vision Care Versus Privatized Dental Care Amongst Canadian Adolescents: Is Cost The Sole Barrier? Kungying Xie1, G. E. Trope2, K. Thavorn2, Y.-P. Jin3,4,5, Michael G DeGroot6, Sch of Med, McMaster University, Hamilton, ON, Canada; 2Department of Ophthalmology and Vision Sciences, 3Institute of Health Policy, Management and Evaluation, 4Dalhousie School of Public Health, 5University of Toronto, Toronto, ON, Canada.

6769 — D789 IOLunder2: Outcomes Following Surgery With And Without Primary Intraocular Lens Implantation In Children under 2 years Old. Lola A. Solebo1, J. S. Rahi2, British Isles Congenital Cataract Interest Group. 1MRC Centre Epidemiology (Child Health), Institute of Child Health, UCL, London, United Kingdom; 2Kingston Eye Hospital, London, United Kingdom; 3Moorefields Eye Hospital, London, United Kingdom.

6770 — D790 Eye Injuries in US High School Athletes: Results of a Six-Year Epidemiologic Study. Andrew W. Stacey1, C. N. Czyz1, J. A. Foster2, D. Comstock3, 1Department of Medical Education, Riverside Methodist Hospital, OhioHealth, Columbus, OH; 2Division of Ophthalmology, Section Oculofacial Plastic and Reconstructive Surgery, Ohio University, Doctor’s Hospital, Columbus, OH; 3Nationwide Children’s Hospital, Columbus, OH; 4Center for Injury Research and Policy, The Research Institute at Nationwide Children’s Hospital, Columbus, OH; 5Division of Epidemiology, The Ohio State University College of Public Health, Columbus, OH.

6771 — D791 Investigation on the reading ability in the hyperopic children at the Nishikasai Inouye Pediatric Eye Clinic, Mieko tsuura1, O. Katsumi2, M. Miyata3, Y. Aoki1, Y. Miyanaga1, K. Inoue4, K. Oda3. 1Nishikasai Inouye Eye Hospital, Tokyo, Japan; 2Nishikasai Inouye Pediatric Eye Clinic, Tokyo, Japan; 3Tokyo Woman’s Christian University, Tokyo, Japan; 4Inouye Eye Hospital, Tokyo, Japan.


6776 — D796 Natural History And Risk Factors Analysis For Retinopathy Of Prematurity In Premature Infants In Taiwan: A Prospective Study At The Post Bevacizumab Era. Yi hsing Chen1, W.-C. Wu1,2. 1Ophthalmology department, Chang Gung Memorial Hospital, Taoyuan county, Taiwan; 2Ophthalmology, Chang Gung Memorial Hosp, Taoyuan county, Taiwan.


6779 — D799 The Impact Of Amblyopia And Strabismus On Child Development And Quality Of Life In Young Chinese Children. Audrey Chia1, Y. Chan1, E. Lamoureux2, J. Thumbboo3, T. Wong4, S. Saw5. 1Pediatric Services, Singapore National Eye Centre, Singapore; 2National University Singapore, Singapore; 3Singapore; 4University of Melbourne, Melbourne, Australia; 5Singapore General Hospital, Singapore; 6Singapore Eye Research Institute, Singapore.

6800 — D800 Sibling Motivation Cards - New Screening Initiative in South India for Pediatric Eye Disease. Brinda Muthusamy1, B. Dey2, V. Kannusamy3, F. Mountpa4, H.J. Park5. 1Pediatric Ophthalmology & Strabismus, The Wilmer Eye Institute, Johns Hopkins Hospital, Baltimore, MD; 2Pediatric Ophthalmology & Strabismus, Aravind Eye Hospital, Pondicherry, India.


6873 — D803 Barriers to Care Following Failure of Population Based Vision Screening. Kristin Rary, A. Summers, J. Vaughan, L. Reznick. Pediatric Ophthalmology, Casey Eye Institute, Portland, OR.
6788 — D952 Lack Of Influence Of Corneal Thickness On Biomechanical Waveforms And How That Impact In Distinguishing Candidates For Lasik Or Pk. Marcony R. Sanhiago1, R. Ambrosio, Jr.1, W.J. Dups, Jr.4, D. Smadja1, E.M. Espeseth1, S.E. Wilson1, 2Ophthalmology, Cleveland Clinic Foundation, Cleveland, OH; 1Ophthalmology, University of Sao Paulo and Rio Laser, Sao Paulo and Rio de Janeiro, Brazil; 3Retina, University of Sao Paulo and Rio Laser, Sao Paulo, Brazil; 4Cleveland Clinic, Cleveland, OH.


6791 — D955 An Experimental Evaluation Of Know Computer Models Of The Porcine Cornea. Vito Romano1, M. Angellotti1, A. Pandolfi2. 1Second University of Naples, Naples, Italy; 2University of Salerno, Salerno, Italy; 3Politecnico of Milan, Milano, Italy.

6792 — D956 Automated Measurement of Corneal Stromal Collagen Fiber Angular Distribution. Moritz Winkler1, K.R. Haucler1, C.J. Murphy1, D.J. Brown1, J.V. Jester1. 1Ophthalmology, University of California, Irvine, Irvine, CA; 2Flann Eye Institute, University of Rochester, Rochester, NY; 3Surgical Radiol Sci-Sch of Veterinary, Univ of California-Davis, Davis, CA.

6793 — D957 Biomechanical Response of Paired Donor Corneas to An Air Puff: Isolated Cornea vs Intact Whole Cornea. Kimberly Metzler1, A.M. Mahmoud2, J. Liu2, J. Lee2, S.J. Shiao1, C.J. Roberts1,2, 1Biomedical Engineering, 2Ophthalmology, 3College of Medicine, 4The Ohio State University, Columbus, OH.

6794 — D958 A Molecular-level Model For Swelling Pressure In The Corneal Stroma. Xi Cheng, P.M. Pinsky. Mechanical Engineering, Stanford University, Stanford, CA.


6796 — D960 The Role of Collagen Interweaving in Stromal Elasticity: A Model Based on the 3-D Collagen Architecture. Steven J. Petsche, P.M. Pinsky. Mechanical Engineering, Stanford University, Stanford, CA.


6799 — D963 Keratoconic Diagnostic Model Integrating Ocular Response Analyzer Measurements and Corneal Topography. Pablo R. Ruisseohevazquez, Sr1, E.L. Nebot1, F. Fuentes Bonthoux1,2, M. Delrivo1, T. Pfiortner2, J.G. Galletti2,3. 1Ophthalmology, Hospital de Clinicas, University of Buenos Aires, Buenos Aires, Argentina; 2ECOS (Clinical Ocular Studies) Laboratory, Buenos Aires, Argentina.

6800 — D964 In Vivo Corneal Elasticity Changes After Collagen Cross-linking Using Supersonic Shear Wave Imaging. David Touboul1, T. Nguyen1, J. Aubry1, J. Gennisson2, M. Tanter2, J. Colin1,1. 1CHU de Bordeaux, Bordeaux, France; 2Institut Langevin - espci, Paris, France; 3SuperSonic Imagine, Aix-en-Provence, France.

6801 — D965 Natural history of Intacs in keratoconus and corneal ectasia. Jasmin R. Desai1, P.S. Hersh1,4. 1Ophthalmology, 2Cornea and Laser Eye Institute- Hersh Vision Group, Teaneck, NJ.

6804 — D968 To Evaluate The Efficacy Of Riboflavin As A Cyto-Protectant For Limbal Epithelial Cells Exposed To UV-A Radiation. Debashish Das1, D. Kamesh1, S. Morali1, A.A. Vincent1, R. Shetty4, H. Matalia1. 1Stem Cell Research Lab, 2Cornea and Refractive Surgery, 3Narayana Nethralaya Post Grad Inst of Ophthalmol, Bangalore, India.

6805 — D969 Implications of New Absorption and Fluorescence Measurements of Riboflavin for Corneal Cross-linking. Pavel Kamaev1,4, R. Pertauba4, M. Friedman1,4, D. Muller1. 1Research, 2Avedro, Waltham, MA.

6806 — D970 Ultrasound-enhanced Penetration of Topical Riboflavin into the Corneal Stroma. Ricardo Lamy1,2, E. Chan1, Y. Zhang2, V. Salgaonkar2, C.J. Diederich1, J.M. Stewart1,2. 1Ophthalmology, 2Radiation/Oncology, 3University of California, San Francisco, San Francisco, CA.


6808 — D972 A Multifactorial Treatment Analysis and Algorithm for Corneal Collagen Crosslinking, Steven A. Greenstein, P. Hersh. Cornea and Laser Eye Institute- Hersh Vision Group, Teaneck, NJ.

6809 — D973 Treatment of Keratoconus Using Collagen Cross Linking, Vincent Imbrogno, M. Pihlblad. Ophthalmology, University at Buffalo/ Ross Eye Institute, Buffalo, NY.


6813 — D977 Rapid Collagen Photo-crosslinking method to Increase Corneal Mechanical Strength. Irene E. Kochevar1, D. Cherran2, T.E. Gisel1, E.E. Verter1, R.W. Redmond3, S. Melki1. 1Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA; 2Medical Sciences Program, Boston University, Boston, MA; 3Boston Eye Group, Boston, MA.


6816 — D980 Model Of Corneal Cross-linking Photochemical Kinetics With Riboflavin. David Muller, P. Kamaev, M.D. Friedman, E. Sherr. Avedro, Waltham, MA.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – *CR Refer to Program Number in the Commercial Trial (CT) Registration Index – †Travel Grant Awardee


8685 — D1175 Signaling Pathway for Porcine Retinal Arteriolar Constriction to PKC Activation: Roles of L-type Voltage-operated Calcium Channels, Myosin Light Chain Kinase and Myosin Light Chain Phosphatase. Luke B. Potts7, L. Kuo7, W. Xu8, T.W. Hein8. *SBTM, Texas A&M Health Science Ctr, Temple, TX; 2Surgery, Scott & White Memorial Hospital, Temple, TX.

8686 — D1176 Correlation Of Retinitis Pigmentosa Disease Stage With Orbital Color Doppler Imaging. Amani S. Albakri1, E. Al-Shahwan1, S.R. Nowlaty1. *Vitreoretinal Division, King Khaled Eye Specialist Hospital, P.O Box 7191, Riyadh 11462, Saudi Arabia.

8687 — D1177 Theoretical Analysis Of Myogenic And Metabolic Responses In Retinal Blood Flow Autoregulation. Julia Arciero1, A. Pickrell1, B. Stiekly1, A. Harris1. *Mathematics, Indiana University-Purdue University Indianapolis, Indianapolis, IN; 2St. George’s University School of Medicine Grenada West Indies, Great River, NY; 3Ophthalmology, Indiana University School of Medicine, Indianapolis, IN.

8688 — D1178 The Dcx-dsRed Transgenic Rat As A Model To Study Pericyte Function? Andrea Trost1, F. Schroedl2,4,5,6, B. Bogner4, C. Strohmai4er1, C. Runge4, G. Grabner4, A. Laigner4, H.A. Reitsamer4. *Ophthalmology/Optometry, 4Anatomy, 5Molecular Regenerative Medicine, 6Paracelsus Medical University, Salzburg, Austria.


8697 — D1187 Dorzolamide-induced Vasorelaxation of Porcine Ciliary Arteries is Mediated by Nitric Oxide, Sildenafil, U. Simonessa, T. Boks. *Department of Ophthalmology, Aarhus University Hospital, Aarhus C, Denmark; 2Department of Biomedicine, Aarhus University, Aarhus C, Denmark.


8699 — D1189 Relationship between Subfoveal Choroidal Thickness and Choroidal Circulation in Response to Increased Systemic Blood Pressure Induced by Cold Pressure Test. Kenji Sogawa1, T. Nagaoka1, T. Tani1, I. Tano1o, T. Omae1, A. Yoshida1. *Ophthalmology, Asahikawa Medical University, Asahikawa, Japan; 1Optometry, Asahikawa Medical College, Asahikawa, Japan.


8704 — D1194 Optic Nerve Head Capillaries Blood Oxygenation Following Dynamic Exercise in Human. Vasile Diaconu1, P. Sauveau1, Y. Vucea1. *Ecole D’optometric, University of Montreal, Montreal, QC, Canada.

8705 — D1195 Age Effects on Retinal Blood Flow Assessed Using Spectral-Domain Optical Coherence Tomography Doppler. Firdaus Yasuf2, F. Tayyari1, J.G. Flanagan1, C. Hudson2,3. *School of Optometry and Vision Sciences, University of Waterloo, Waterloo, ON, Canada; 2Department of Optometry and Visual Science, International Islamic University of Malaysia, Bandar Indera Mahkota, Kuantan, Malaysia; 3Department of Ophthalmology and Vision Sciences, University of Toronto, Toronto, ON, Canada. *CR


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures — † Refer to Program Number in the Clinical Trial (CT) Registration Index — © Travel Grant Awardee
**558 Tumors: New Drugs, Delivery Systems and Mechanisms of Action**

**Moderators:** Martine J Jager and David H Abramson

6867 – D1197 Intra-arterial Chemotherapy for the Management of Retinoblastoma in Eyes with Extensive (>50%) Retinal Detachment. Sotiria Palioura1,2, Y. Gobin3, S.E. Brodie1,4, I. Dunkel1, B. Marr1, D. Abramson1. 1Ophthalmic Oncology Service, Memorial Sloan-Kettering Cancer Center, New York, NY; 2Currently, Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 3Division of Interventional Neuroradiology, Departments of Radiology, Neurosurgery and Neurology, Weill Cornell Medical College, New York Presbyterian Hospital, New York, NY; 4Department of Ophthalmology, Mount Sinai School of Medicine, New York, NY; 5Department of Pediatrics, Memorial Sloan-Kettering Cancer Center, New York, NY.

6868 – D1198 Effects Of Zeaxanthin On Cell Viability Of Cultured Human Uveal Melanoma Cells And Normal Ocular Cells In Vitro. Dan-Ning Hu1A, R.B. Rosen1B, M. Chen1C, E. Antecka, C. Miyamoto, M.N. Burnier, Jr. 1Dept of Ophthalmology, Ohio State University, Columbus, OH; 2Department of Ophthalmology, McGill University, Montreal, QC, Canada.

6869 – D1199 Intracocular Treatments of a New Orthotopic Primary Human Retinoblastoma Xenograft. Nathalie Cassoux1, F. Assayag1, O. Chouchane-Mlik1, F. Neherit1, A. Thoulou1, J-J. Fontaine1, I. Acts1, L. Desjardins1, F. Doz1, D. Découmod1. 1Ophthalmology, 2Laboratory of preclinical investigation, 3Dept of pathology, 4Pathology, 5New York Eye & Ear Infirmary, New York, NY.

6870 – D1200 RXRG Agonist Bexarotene Suppresses Retinoblastoma Growth by Enhancing TRB1 and p53 Tumor Suppressor Activity. Xiaolong Li1A, R. Jia1,2, H. Huang1, W. Joseph1, N. Zhou1, I. Abramson1, X. Fui1, S.C. Jhanwar1,2. 1Department of Pathology, 2Ophthalmic Oncology Service, 3Memorial Sloan Kettering Cancer Center, New York, NY; 4Department of Ophthalmology, Shanghai Jiaotong University, Shanghai, China.

6871 – D1201 The Protein Kinase C (PKC)/Protein Kinase D (PKD)/Steroid Receptor Coactivator (SRC)-3 pathway is an important therapeutic target in G- and F-actin. Vassiliki Panoulaki1, S. Chew2, B. He2, V. Eedunuri1, D. Bedoya3, M.J. Jagger4, B.W. O'Malley5, N. Mitsiades1. 1Ophthalmology, VA Boston Healthcare System, Boston University, Boston, MA; 2Medicine/Molecular and Cellular Biology, 3Molecular and Cellular Biology, 4Baylor College of Medicine, Houston, TX; 5Adrienne Helis Malvin Medical Research Foundation, New Orleans, LA; 6Ophthalmology, Leiden University Med Center, Leiden, The Netherlands.

6872 – D1202 Periocular Tissue Concentration of Propranolol after Delivery with a Gel-forming Solution. Michael B. Yang1A, J. Hao1B, H. Liu1B, Jara1B, G. Haffner1A. 1New England Retina Associates, Hamden, CT; 2Center for Complex Systems and Biofoundries, Boston University School of Medicine, Boston, MA.


6876 – D1206 Therapeutic Efficacy By Targeting Correction Of Notch1-induced aberrants In Uveal Tumors. Xiaolin Huang1, L. Wang2, H. Zhang2, R. Jia1, H. Wang3, X. Zhao4, G. Qian5, A.D. Singh6, S. Ge7, F. Fan8. 1Ophthalmology, 2Ophthalmology, 3Ninth People's Hospital, 4Shanghai Jiaotong University School of Medicine, 5Shanghai, P.R., China; 6Department of Ophthalmology, Ninth People's Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, P.R., China; 7Department of Biochemistry and Molecular Biology, Shanghai Jiaotong University School of Medicine, Shanghai, P.R., China; 8Coe Eye Institute, Cleveland, OH.

6877 – D1207 Towards a Novel Therapy for Uveal Melanoma: Targeting Oncogenic Gαs. Timothy W. Corson, K. Sishtla. Glick Eye Institute, Department of Ophthalmology, Indiana University School of Medicine, Indianapolis, IN.


6879 – D1209 Association Of Ocular Findings And Preventive Therapy With Onset Of Cerebral Involvement In Patients With Primary Intraocular Lymphoma. Noriyasu Hashida1, K. Nakai1, N. Ogura1, K. Nishida1. 1Dept of Ophthalmology, Osaka University, Suita, Japan; 2Dept of Ophthalmology, Osaka Koseinenkin Hospital, Osaka, Japan.


6881 – D1211 Precise Modeling of the Eye for Proton Beam Radiotherapy of Intraocular Tumors. Michael B. Rueegsegger1,2, J.H. Kowa1, S. Wolf1,3, 1ARTORG Center Ophthalmic Technology, 2Department of Ophthalmology, 3University of Bern, Bern, Switzerland.

6882 – D1212 In Vivo Confocal Microscopy Study Of Conjunctival Intraepithelial Neoplasia Treated With Interferon-alpha2b. Hyunjoo J. Lee1,2, R. Dunphy1, M. Daly2,3, D. Sircar4,5. 1Ophthalmology, Boston Medical Center / Boston University School of Medicine, Boston, MA; 2Ophthalmology, 3Optometry, 4Veterans Affairs Boston Healthcare System, Boston, MA.


6884 – D1214 Sulindac Protects RPE Cells Against Oxidative Damage but Enhances the Killing of Retinoblastoma Cells Exposed To Oxidative Stress. Arunoday Sur1, H.M. Prentice1, H. Weissbach2, J.C. Blank3. 1Integrative Biology Phd Program, 2Dept of Biology, 3Charles E Schmid College of Medicine, 4Center for Complex Systems & Brain Sci, 5Florida Atlantic University, Boca Raton, FL; 6Center For Cellular and Molecular Biology, Florida Atlantic University, Jupiter, FL.
Floriani BCD

Thursday, May 10, 2012, 1:15 PM-3:00 PM

Cornea

560 Corneal Biomechanics III

Moderators: Jodhbir S Mehta and James Y Jester


6892 — 1:15 Patient Specific Finite Element Cornea Model. David Varsano1,2, R. Ashe3, E. Moisseiev1,2, A. Gefen2. Ophthalmology, Tel Aviv Medical Center, Tel Aviv, Israel; Sackler School of Medicine, Dept. of Biomedical Engineering, Tel Aviv University, Tel Aviv, Israel.

6893 — 1:30 Conservation of Arclength in Keratoconic and Normal Corneas with Air Puff Induced Deformation. Cynthia J. Roberts1,2, A.M. Mahmoud3,4, J. Liti5,6, Z. Sharalaya2, T.F. Maugher2, R.G. Lembach1,2, A.J. Hendershot1,2, R. Kuennem1,2, S.D. Klyce2. Ophthalmology, Biomedical Engineering, College of Medicine, The Ohio State University, Columbus, Ohio; Ophthalmology, Mount Sinai School of Medicine, New York, NY.*CR

6894 — 1:45 A New Approach to Experimentally Determine Human Corneal Biomechanical Characteristics Using OCT Applied to an Anisotropic Finite Element Model. Wallace Chamoni1, O. Ozturk1, D. Fahd3, N. Allemann1, J. De la Cruz1, M.S. Cortina4, C. Foster1, D.T. Azard1, S. Jain1. Ophthalmology & Visual Sciences, College of Engineering, University of Illinois at Chicago, Chicago, IL.

6895 — 2:00 Numerical analysis of the influence of Intracorneal Pressure on the photorefractive keratectomy for myopia correction. Maria A. del Buex1, E. Lanches2, J.A. Cristóbal3, B. Calvo1, F.J. Ascaso1, L. Lavilla1, C. Palomino1, N. Cruz2, P. Casas1. Ophthalmology, Lozano Blesa University Clinical Hospital, Zaragoza, Spain; Quiron Hospital, Zaragoza, Spain; Mechanical Engineering, University of Zaragoza, Zaragoza, Spain; Ophthalmology, Quiron Hospital, Madrid, Spain.

6896 — 2:15 Estimation Of Modulus Change After Corneal Crosslinking (cxl) Using Multiple Post-cxl Topographies And Inverse Finite Element. Abhijit Sinha Roy1, B. Fant1, K. Rocha1, W. Dupps, Jr1. Ophthalmology, Cleveland Clinic Cole Eye Inst, Cleveland, OH; Clinical Research Consultants, Cincinnati, OH. CR.
6902 — 2:00  Different Subsets Of Tumor-infiltrating Lymphocytes Correlate With Macrophage Influx And Monosomy 3 In Uveal Melanoma. Inge H. Bronkhorst1, T. Vii2, E.S. Jordanova2, G.P. Layten1, S.H. van der Burg2, M.J. Jager. 1Ophthalmology, 2Pathology, 3Clinical Oncology, 4Leiden University Medical Center, Leiden, The Netherlands; 5Ophthalmology, Leiden University Med Center, Leiden, The Netherlands.

6903 — 2:15  IL-4 Conditions Macrophage In Vitro and Retina In Vivo to Generate Soluble Flt-1 Expression and Inhibit Laser-induced CNV in Mice. Wei-Kang Wu1, L.B. Nicholson1A, A.D. Dick1B. 1School of Cellular and Molecular Medicine, 2School of Clinical Sciences, 3University of Bristol, Bristol, United Kingdom.  


6905 — 2:45  Decreased Interleukin-27 Expression is Associated with Active Uveitis in Behcet’s Disease. Peizeng Yang1, C. Wang1, Y. Tian1, Z. Ye1, A. Kijlstra2. 1Ophthal, The 1st Hosp, Chongqing Medical University, Chongqing, China; 2Ophthal, University Hospital Maastricht, Maastricht, The Netherlands.


6910 — 2:15  A Putative Role for Histamine Releasing Factor in Posterior Capsule Opacification. I.M. Wormstone1, J.K. Kular1, J.R. Reddan1, L.J. Davies1. 1School of Biological Sciences, University of East Anglia, Norwich, United Kingdom; 2Biological Sciences, Oakland University, Rochester, MI; 3Save Sight Institute, University of Sydney, Sydney, Australia.

6911 — 2:30  Cataract EPiHA2 SAM Domain Mutations Alter Receptor Stability and Function. Jeong Eun Park1, A.I. Son1, R. Hua2, X. Zhang2, R. Zhou1. 1Department of Chemical Biology, 2Department of Biochemistry, 3Department of Biology, The University of Chicago, Chicago, IL.

6912 — 2:45  Evaluation Of Doxorubicin Loaded Mepeg-pcl Nanoparticle For Prevention Of Posterior Capsular Opacification. Aditya Konar1, R. Guha1, S. Chowdhary1, H. Palui2A, A. Hazra2A. 1IICB, Kolkata, India; 2Veterinary Sciences, 3IIT Patna, Patna, India.

6920 — 1:15  The REPAIR Study: Prospective, Multi-center Trial of ranibizumab in Choroidal Neovascularization due to Pathological Myopia - Interim Analysis. Adrian Tufail, REPAIR Study Group. Ophthalmology, Moorfields Eye Hospital, London, United Kingdom.*CR, A

6921 — 1:30  Chloroidal thickness associated with spherical equivalent in healthy young adults: The Raine Eye Health Study. Alexander X. Tan1, H. Forward1, C. McKnight2, S. Yazaz3, C. Penney4, J. Mountain1B, T.L. Young2, A.W. Hewitt1, D.A. Mackey1, F.K. Chen1. 1Lions Eye Institute, 2Telethon Institute for Child Health Research, 3University of Western Australia, Perth, Australia; 4Ophthalmology, Duke University Eye Center, Durham, NC; 5Department of Ophthalmology, Centre for Eye Research Australia, Surrey Hills, Australia.


6916 — 2:00  Nicotinic Block Reduces Direction Selectivity to Moving Gratings by Increasing Amplitude and Shifting Phase of Null Direction Excitation. Mikhail Y. Lipin1, W.R. Taylor2, R.G. Smith1. 1Department of Biomedical Sciences, Colorado State University, Fort Collins, CO; 2Casey Eye Institute, Ophthalmology, Oregon Health Sciences University, Portland, OR; 3Dept of Neuroscience, University of Pennsylvania, Philadelphia, PA.


6918 — 2:30  Developmental Characterization Of NMBA Receptor Expression In Identified Retinal Ganglion Cells Of The Mouse Retina. Ben Stafford1, K.Y. Wong1, J.B. Demb1. Ophthalmology and Visual Sciences, University of Michigan, Ann Arbor, MI; 2Ophthalmology & Visual Sciences, Yale University, New Haven, CT.


Palm A

Thursday, May 10, 2012, 1:15 PM-3:00 PM

6906 — 1:15  A Role for Wnt-Frizzled Signaling During FGF-induced Fiber Differentiation. John W. McAvoy, L.J. Davies, Y. Sugiymama, L. Wen, F.J. Lovicu. Ophthalmology, Save Sight Institute, University of Sydney, Australia.

6907 — 1:30  ERK1/2 Signaling is Required for Lens Cell Survival and Fiber Cell Differentiation during Development. Dinesh Upadhyia, L. Reneker. Ophthalmology, Mason Eye Institute, Columbia, MO.

6908 — 1:45  Genome-wide Identification Of Genes And MicroRNAs Regulated By Fgf2 During In Vitro Lens Fiber Cell Differentiation. Louise V. Wolf1, C.C. Gao2, K. Gueta3, N. Podduuttur1, P.S. Zelenka1, R. Ashery-Padan1, J. Zavadil1, A. Cvekl1. 1Ophthalmology & Visual Sciences and Genetics, Albert Einstein College of Medicine, Bronx, NY; 2LMDB, NEI, Bethesda, MD; 3Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel; 4Langone Center, NYU, New York, NY.

6913 — 1:15  Light Adaptation at Distinct Intensity Levels within the Photopic Regime. Alexandra Tikidji-Hamburyan, T.A. Münch. Centre for Integrative Neuroscience, University Tuebingen, Tuebingen, Germany.

6914 — 1:30  What Information Does The Eye Send To The Brain? Recording The Entire Visual Output At A Single Retinal Location. Tom Baden1, P. Berens1, M. Bethge1, T. Eulier1. 1BCCN / CIN, 2BCCN / CIN / MPI, University of Tuebingen, Tuebingen, Germany.
Grand A
Thursday, May 10, 2012, 1:15 PM-3:00 PM
Retina

565 Macular Edema

Moderators: Frank G Holz and Edoardo Midena


6928 — 1:30 Long Term Evaluation of the Visual Prognosis in Patients Treated With Dexamethasone Intravitreal Implant (Ozurdex) for Macular Edema Due to Retinal Vein Occlusion. Elad Moisseiev1, M. Goldstein2, M. Waibsausd3, A. Barak4, A. Loewenstein4, 1Ophthalmology, Tel Aviv Medical Center, Tel Aviv, Israel; 2Ophthalmology, Tel-Aviv Medical Center, Tel-Aviv, Israel; 3Ophthalmology, Tel-Aviv Medical Center, Tel Aviv, Israel.*CR

6929 — 1:45 Intravitreal Afibercept Injection for Macular Edema in Central Retinal Vein Occlusion: 1-year Results of the Phase 3 GALILEO Study. Frank G. Holz1, Y. Ogura2, J. Roeder3, J-F. Korobelnik4, B. Stemper5, R. Vitti6, A.J. Berliner7, F. Hiemeyer8, R. Sandbrink9, A.J. Berliner4, F. Hiemeyer5, R. Sandbrink6, O. Zeitz2, 1Ophthalmology, University of Bonn, Bonn, Germany; 2Ophthalmology, Nagoya City University Graduate School of Medical Science, Nagoya, Germany; 3Klinik fur Ophthalmologie, University of Kiel, Kiel, Germany; 4Service d’Ophthalmologie, Hopital Pellegrin, Bordeaux, France; 5GCD TA NOHI, 6Bayer HealthCare, Berlin, Germany; 7Ophthalmology, Regeneron, Tarrytown, NY; 8Bayer Health Care, Berlin, Germany; 9Global Clinical Development, Bayer HealthCare AG, Berlin, Germany.*CR

6930 — 2:00 Macular Edema After Uneventful Phacoemulsification Detected By Ocular Coherence Tomography (OCT). Luiz Felipe Q. Silveira1, G.A. Pellegrini2, M. Harasawa3, G.A. Carlos3, J.C. Souza4, T. Leite5, G.S. Pierozzi6, A.F. Bordon7, 1Retina, Hospital Oftalmologico de Sorocaba, Sorocaba, Brazil; 2Hospital Oftalmologico de Sorocaba, Indaiatuba, Brazil; 3Retina, Hospital de Olhos de Sorocaba, Sorocaba, Brazil; 4Ophthalmology UNIFESP-EPMT Federal Univ of Sao Paulo, Sao Paulo, Brazil.


6932 — 2:30 Incidence Of Macular Edema (ME) In Fingolimod (FTY720) Multiple Sclerosis (MS) Clinical Program. Marco A. Zarbin1, A. Reder2, W. Collins3, G. Francis4, X. Zhang5, L.Y. Kappos5, J. Cohen5, 1Inst of Ophthalmology & Visual Science, UMDNJ-New Jersey Medical School, Newark, NJ; 2Neurology, University of Chicago, Chicago, IL; 3Novartis Pharm AG, Basel, Switzerland; 4Novartis Pharma AG, Basel, Switzerland; 5University of Basel, Basel, Switzerland; 6Neurology, Cleveland Clinic Foundation, Cleveland, OH.*CR

6933 — 2:45 C-REALITY (Canadian Burden of Diabetic Macular Edema Observational Study). John R. Gonder1, V. Walker2, N. Zaur2, M. Barbeau3, L. Hemsley4, R. Lue5, 1Ophthalmology, Ivey Eye Institute, London, ON, Canada; 2OptumInsight, Burlington, ON, Canada; 3Novartis Pharmaceuticals Canada Inc, Montreal, QC, Canada.*CR

Grand B
Thursday, May 10, 2012, 1:15 PM-3:00 PM
Clinical & Epidemiologic Research

566 Health Care Delivery and Economic Research II

Moderators: Astrid E Fletcher and Vaping Jin

6934 — 1:15 Socioeconomic Disparity in Access to Eye Care Services among U.S. Adults with Age-related Eye Diseases Emerging during 2002 and 2008. Xinzi Zhang1, P. Nair2, G. Beckles3, C-F. Chou1, L. Geiss4, A. Ryskulova5, J. Saadine6, 1Health Vision Initiative, 2CDC, Atlanta, GA; 3Division of Diabetes Translation, 4CDC/Ginn Group Inc, Atlanta, GA; 5CDC, Hyattsville, MD.

6935 — 1:30 Affordability of Cataract Surgery using the Big Mac Index. Jan C. Lingsing1, M.J. Carter2, K.L. Winthrop1, J.M. Furtado1, 1Agency for the Prevention of Blindness/VISION 2020, Weston, FL; 2Strategic Solutions, Inc, Cody, WY; 3Cayse Eye Institute, Portland, OR; 4Cayse Eye Institute, Oregon Health & Science Univ, Portland, OR.*CR

6936 — 1:45 After Multiple Rounds of Mass Drug Administration for Trachoma, are there only “Trachoma families” left? Sheila K. West1, B.E. Munoz2, H. Mkocha3, C. Guydos4, T. Quinn5, 1Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD; 2Kongwa Trachoma Project, Kongwa, Tanzania, United Republic of; 3Department of Infectious Diseases, Johns Hopkins University, Baltimore, MD; 4National Institute of Allergy and Infectious diseases, National Institute of Allergy and Infectious diseases, NIH, Bethesda, MD.

6938 — 2:15  Prevalence of Functional Low Vision and Need for Annualized Eye Evaluation in Adult Malays and Indians Living in Singapore. Tingfeng Zheng1,2, C.-Y. Cheng1,2, E.L. Lamoureux, III1,3, P. Chiang1,4, A. Anuar1,5, T. Aung1,6, S.-M. Saw7, T.Y. Wong1,8. 1Singapore Eye Research Institute, Singapore National Eye Centre, Singapore, Singapore; 2State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University, Guangzhou, China; 3Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 4Ophthalmology, University of Melbourne, Australia; 5University of Malaya, Kuala Lumpur, Malaysia; 6Saw Swee Hock School of Public Health, National University of Singapore, Singapore, Singapore; 7Centre for Eye Research Australia, University of Melbourne, Melbourne, Australia; 8University of Melbourne, East Melbourne, Australia.

6939 — 2:30  Excess Expenditures, Excess Informal Care Days, and Quality of Life Decrements Associated with Self-Reported Visual Impairment and Blindness. Kevin D. Frick1,2, L.L. Grover2, E. Wehler2. 1Health Policy and Management, Johns Hopkins Bloomberg Sch of Public Hlth, Baltimore, MD; 2Ophthalmology, Johns Hopkins Univ Wilmer Eye Inst, Baltimore, MD.

6940 — 2:45  Lack of Government-insured Annual Eye Examinations Increases The Risk Of Vision Problems Amongst Low-income Elderly. Yaping Jin1, Y.M. Buys1, J. Xiong2, G.E. Trope1. 1Ophthalmology & Vision Sciences, University of Toronto, Toronto, ON, Canada; 2University of Waterloo, Waterloo, ON, Canada; 3Ophthalm/Atlanta Western Hosp, University Toronto, Toronto, ON, Canada.

6941 — 1:15  Increased Immune Response Against Ocular Tissue After Immunization With An Optic Nerve Antigen. Stephanie C. Joachim1, O.W. Gramlich2, P. Laspa2, S. Kuehn1, H.D. von Pein1, B. Dick1, F.H. Grus2. 1Experimental Eye Research Institute, Ruhr University, Bochum, Germany; 2Experimental Ophthalmology, University Medical Center, Mainz, Germany; 3Experimental Ophthalmology, Department of Neuropathology, Mainz, Germany.

6942 — 1:30  Retinal Ganglion Cell Loss Correlates With Increased IOP in MMP-9 Knockout Mice. Behrad Garmiriz, J.F. Robertson, A.K. Ball, J.A. West-Mays. Pathology and Molecular Medicine, McMaster University, Hamilton, ON, Canada.


6944 — 2:00  Overstimulation of TRPV4 in vivo Induces Selective Apoptosis of Retinal Ganglion Cells. An Acute in vivo Experimental Model for Glaucoma, amber m. frye, D. Ryskamp. 1Department of Ophthalmology & Visual Sciences, Salt Lake City, UT; 2ophthalmology, The University of Utah, Salt Lake City, UT.

6945 — 2:15  Anti-Connective Tissue Growth Factor Antibody Therapy Combats Expression of Fibrotic Genes in Glaucoma. Deborah M. Wallace1,2, A.F. Clark1, N. Oliver1, J.K. Crean1, C.J. O’Brien1,4. 1School Medicine & Medical Science, 2School of Biomolecular & Biomedical Science, Conway Inst., 3University College Dublin, Dublin, Ireland; 4Dept. Of Ophthalmology, Mater Misericordiae University Hospital, Dublin, Ireland; 5Cell Biology & Anatomy, University of North Texas HSC, Fort Worth, TX; 6FibroGen Inc, San Francisco, CA; 7Ophthalmology, Mater Misericordiae Univ Hospital, Dublin, Ireland; 8School of Medicine and Medical Science, University College Dublin, Ireland.

6946 — 2:30  Crossed Linked Actin Networks are Formed in Human Trabecular Meshwork Cells after treatment with Latrunculin B. Paul Russell1,2, K. Murphy3, A.A. Wood4, C.T. McKee4, C.J. Murphy5, 6. 1School of Veterinary Medicine, 2School of Biomedical Engineering, 3School of Medicine and School of Veterinary Medicine, 4University of California Davis, Davis, CA.

6947 — 2:45  Defects In Whole Cell Respiration In POAG Lymphoblasts. Jonathan G. Crowston1,2, L. Sheek1, N.J. Van Bergen3, S. Lee1, V. Chrysostomou1, A.L. Vincent1, I.A. Trounce1, 1Department of Ophthalmology, 2Glaucoma Research Unit, 3Centre for Eye Research Australia, East Melbourne, Australia; 4Ophthalmology, University of Auckland, Auckland, New Zealand; 5Glaucoma Research Unit, Centre for Eye Research Australia, Melbourne, Australia; 6University of Melbourne, Centre for Eye Research Australia, Melbourne, Australia.


6949 — 1:30  Cortical Responses to Repetitive Electrical Stimulation of the Retina using Suprachoroidal Visual Prostheses. Sam E. John1, M.N. Shivdasani2, J.B. Fallon2, G. Rathbone3, C.E. Williams1, 1Bionics Institute/Latrobe University, East Melbourne, Australia; 2Bionics Institute, East Melbourne, Australia.

6950 — 1:45  Low Contrast Visual Acuity and Drift are Formed in Human Trabecular Meshwork Cells. Urs M. Brandner1, R. Hornig2, M. Velikay-Parel1. 1Ophthalmology, Medical University of Graz, Graz, Austria; 2IMI Intelligent Medical Implants GmbH, Bonn, Germany.

6951 — 2:00  The influence of visual information on walking behaviour in the Graz Mobility Test. Thomas Georgi1, D. Ivastinovic1, M. Brandner1, R. Hornig1, M. Velikay-Parel1. 1Ophthalmology, Medical University of Graz, Graz, Austria; 2IMI Intelligent Medical Implants GmbH, Bonn, Germany.
Patients blinded by outer retinal dystrophies are able to perceive simultaneous colors using the Argus® II Retinal Prosthesis System. Paulo E. Stanga1,2; J.A. Sahel, Jr.,3 L. da Cruz,4 F. Hafezi5, F. Merlini5, B. Coley5, R.J. Greenberg6. Argus II Study Group. 1Manchester Royal Eye Hospital and University of Manchester, Manchester, United Kingdom; 2Manchester Biomedical Research Centre, Manchester, United Kingdom; 3UMR-S 968, Institut de la Vision, Paris, France; 4Moorfields Eye Hospital, London, United Kingdom; 5Ophthalmology, Geneva University Hospitals, Geneva, Switzerland; 6Second Sight Medical Products (Switzerland), Lausanne, Switzerland; 7Second Sight Medical Products, Inc, Sylmar, CA. *CR, ▼

Results Update from Second Sight’s Argus® II Retinal Prosthesis Study.
Mark S. Humayun1, L. da Cruz2, G. Dagnelie3, J-A. Sahel4, P.E. Stanga5, E. Filley4, D. Elliott4, J. Duncan4, R.J. Greenberg4. Argus II Study Group. 1Ophthalmology, Doheny Eye Institute - USC, Los Angeles, CA; 2Moorfields Eye Hospital, London, United Kingdom; 3Lions Vision Research and Rehab Center, Johns Hopkins University, Baltimore, MD; 4Centre Hospitalier National d’Ophthalmologie des Quinze-Vingts, Paris, France; 5Manchester Royal Eye Hospital, Manchester, United Kingdom; 6Retina Foundation of the Southwest, Dallas, TX; 7Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 8University of California, San Francisco School of Medicine, San Francisco, CA; 9Second Sight Medical Products, Sylmar, CA. *CR, ▼

An Eye-surface Conformable Retinal Prosthesis using Liquid Crystal Polymers.
Joonsoo Jeong1A,1B, S. Lee2, K. Min1A,1B, S. Shin1A,1B, S. Bae3, J-M. Seo3,1A, H. Chung3, S. Kim1A,1B. AElectrical Engineering & Computer Science, BInter-University Semiconductor Research Center, 1Seoul National University, Seoul, Republic of Korea; 2Department of Neurosurgery, Massachusetts General Hospital, Boston, MA; 3Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea.