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

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

Publication date:
2012

Document version
Early version, also known as pre-print

Citation for published version (APA):

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<td>Palm A</td>
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<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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<td>512 Novel Imaging, Photoreceptors, Vasculature and Disease [VI, MOI,RE]</td>
<td>#5647-5683</td>
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<td>513 Clinical Electrophysiology and Retinal Disease [VN]</td>
<td>#5684-5710</td>
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<td>514 Visual Cortex and Brainstem Visual Centers [VN, VI]</td>
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<td>515 Visual Electrophysiology in Disease and Drug Toxicity [VN]</td>
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<td>516 Diabetic Retinopathy Epidemiology [CL]</td>
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<td>517 Vascular Mechanisms in Diabetic Retinopathy [RC, RE]</td>
<td>#5754-5783</td>
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<td>518 Retinal Detachment II [RE]</td>
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<td>519 Laser/Choroidal Neovascularization/Retina-RPE Transplantation [RE]</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>
<td>#5983-6027</td>
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<td>524 Keratoplasty II (Eye Banking, Substrates, Penetrating and Lamellar Grafts, Keratoprosthesis) [CO]</td>
<td>#6028-6075</td>
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<td>525 Contact Lens II (Basic Research) [CO]</td>
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<td>526 Cornea/Anterior Segment Infection and Inflammation I [IM, 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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<td>529 AIDS-Related Ocular Disease [IM, RE,RC]</td>
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<td>530 Autoimmune Ocular Disease [IM, CO,RE,RC]</td>
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<td>531 Inflammation and Infection [PH]</td>
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**Thursday, May 10 — Posters**

**8:30-10:15am**

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<td>544 Retinal Degeneration and Neuroprotection [RC]</td>
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<td>545 Retinitis Pigmentosa III [RE]</td>
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<td>546 AMD Disease Mechanisms II [BI]</td>
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<td>547 AMD Clinical Research VII [RE]</td>
<td>#6511-6537</td>
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<tr>
<td>548 Retina and RPE Cell Biology [RC, VN]</td>
<td>#6538-6569</td>
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<td>550 Cataract Surgery I [LE]</td>
<td>#6618-6651</td>
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<tr>
<td>551 Cataract Surgery II [LE]</td>
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<td>552 Cataract Complications and Drugs [LE]</td>
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<td>553 Cataract Training, Modeling, Pediatrics [LE]</td>
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<td>554 Oculoplastics III [EVY]</td>
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<td>555 Pediatric Ophthalmology [CL]</td>
<td>#6761-6783</td>
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<td>556 Corneal Biomechanics II [CO]</td>
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<td>557 Blood Flow [PH]</td>
<td>#6823-6866</td>
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<td>558 Tumors: New Drugs, Delivery Systems and Mechanisms of Action [PH]</td>
<td>#6867-6884</td>
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**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.**
501 Retina Late Breaking Papers

Moderators: Ivana K Kim and David N Zacks

Floridian BCD

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

Cornea

502 Reshaping the Cornea: Present and Future of Refractive Surgery

Moderators: Jesper Hjortdal and Dan Epstein

5569 — 8:30 Enantiomorphism Of The Human Cornea Based On Corneal Topography 3D Atlas Analysis, Georges M. Durr1, E. Auvinet2-3, J.A. Ong1, M. Gilca2, M-E. Choronzey1, J. Meunier2, A.J. Mainz, Mainz, Germany; 2Inserm UMRS872, Paris, France. *CR


5571 — 9:00 Long-term Outcomes Of Phototherapeutic Keratectomy For Low To High Myopia: Up To 19 Years Of Follow-up, Anders Vestergaard9, J. Graulund10, A. Ivarsen11, J. Hjortdal12, A.K. Sjolie13, B. Ivarsen14, J. Hjortdal15. 1Ophthalmology, Hotel Dieu Hospital, Montreal, QC, Canada; 2Ophthalmology, Aarhus University Hospital, Aarhus, Denmark. *CR

5572 — 9:15 Incidence, Risk Factors, and Outcomes of LASIK Flap Striae Requiring Flap Re-Lift and Irrigation, Harmanjit Singh1, V. Gupta2, E. Adiguzel3, A. Wallerstein4, M. Cohen5, M. Harissi-Dagher1, M. V. Peshenko1, E.V. Olshevskaya1, S. Lim6, J.B. Ames7, A.M. Dizhoor8. 1London Vision Clinic, London, United Kingdom; 2Pennsylvania College of Optometry, Salus University, Elkins Park, PA; 3Department of Chemistry, University of California, Davis, CA. *CR


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, ¶

5576 — 8:30 A Comparative Evaluation Of Translational Read-through Inducing Drugs For Treatment Of Ush. Kerstin Nagel-Wulff2, T. Goldmann2, E. Möller2, N. Overlack2, T. Harman1, T. Goldmann2. 1Department of Ophthalmology, Johannes Gutenberg University of Mainz, Mainz, Germany; 2Cell and Matrix Biology, Johannes Gutenberg University of Mainz, Mainz, Germany. ¶

5577 — 8:45 Gene Therapy For Choroideremia - Initial Report On A New Clinical Trial. Robert E. MacLaren3, P. Gropp4, A.R. Barnard5, T. Tolmachova6, M. J. Durr7, S. M. Downes8, A.J. Lotery9, G.C. Black10, A.R. Webster11, M.C. Seabrat12. 1Nuffield Laboratory of Ophthalmology, University of Oxford, Oxford, United Kingdom; 2Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom; 3Molecular Medicine, Imperial College London, London, United Kingdom; 4Ohio State University Medical Center, Columbus, OH; 5Oxford Eye Hospital, Oxford University Hospitals NHS Trust, Oxford, United Kingdom; 6Ophthalmology - Eye Unit, Southampton General Hospital, Southampton, United Kingdom; 7Genetic Medicine, University of Manchester, Manchester, United Kingdom; 8UCL Institute of Ophthalmology, London, United Kingdom. ¶

5578 — 9:00 Adenoviral and Lentiviral Vectors for Efficient Gene Transfer to Mouse Retina. Agostina Papoi1, G. Ces1, D. Palmer2, P. Piccolo3, R.J. Parks4, P. Ng5, N. Brunetti-Pierri6, A. Auricchio6,7. 1TIGEM- 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. ¶


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. Binde1, S. Cashman. Ophthalmology, Tufts University, Boston, MA. ¶

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. Oshevskaya1, S. Lim2, J.B. Ames3, A.M. Dizhoor4. 1Pennsylvania College of Optometry, Salus University, Elkins Park, PA; 2Department of Chemistry, University of California, Davis, CA.

*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

8:30 am – 10:15 am Thursday Papers
5584 — 8:45 Alzheimer Retina Pathology in a Novel Animal Model of Neuropathology in Diabetes, Peter Frederikse1, R. Kaswala2, W. Kleint, C. Kastanathan1.1Pharmacology & Physiology, UMD New Jersey Medical School, Newark, NJ; 2Oral Biology, UMD New Jersey Dental School, Newark, NJ.

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


5587 — 9:30 Ablent Regulation of NFkB Activity in Immunoproteasome-deficient Retinal Pigment Epithelial Cells. Deborah A. Ferrington, M. Maldonado, M.R. Terluk, R.J. Kapphahn, N.D. Huess. 1Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences, Shanghai, China; 2Department of Ophthalmology, University of Rochester, Rochester, NY.


5589 — 10:00 TET3 is an Essential Epigenetic factor for Eye development. Stephen P. Sugrue1, G. Xu1, Y. Kato1, Y. Xu2, Y. Shi3. 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.

5590 — 10:15 Travel Grant Awardee.


5592 — 9:00 Glutaredoxin (Gsr2) Gene Knockout Suppresses Fiber Cell Differentiation and Delays De-nucleation of the Mouse Lens. Marjorie F. Louis1, S. Basu1, Y. Yu1, H. Wei2, A. S. Menko1. Veterinary Medicine & Biomedical Sciences, University of Nebraska-Lincoln, Lincoln, NE; 2Department of Ophthalmology, University of Nebraska Medical Center, Omaha, NE.

5593 — 9:15 K6W Mutant Ubiquitin Activates Calpain in Lens. Ke Liu1, A. Caceres1, J. Peng1, F. Shang1, J. Gao1, X. Sun1, R.T. Mathias1, A. Taylor1. 1Human Nutrition Research Center on Aging, Tufts University, Boston, MA; 2Structural Biology, St. Jude Children’s Research Hospital, Memphis, TN.

5594 — 9:30 Dlg-1 and Scrib are Modulators of Wnt/PCP in the Mouse Ocular Lens. Shalini Shatadal1A, R. Rachel1B, A. Griep1A. 1Human Nutrition Research Center on Aging, Tufts University, Boston, MA; 2Department of Ophthalmology, University of Rochester, Rochester, NY.

5595 — 9:45 Post-translational Modifications of BFSP1. Roy A. Quinlan1, A. Tapodi1, E.W. Tate1, W.P. Heat1, 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 Smn2h/smarca5 And Brug1/smarca4 Are Independently Required For Mouse Lens Morphogenesis. Shuying He1A, J. Sun1A, J. Kokavec1, T. Stopka1, A. Skoultchi1B, J. Zavadil3, A. Cvekl1A. 1Cell Biology, Albert Einstein College of Medicine, Bronx, NY; 2Institute of Pathological Physiology and Center of Experimental Hematology, First Faculty of Medicine, Charles University, Prague, Czech Republic; 3New York University Langone Medical Center, New York, NY.


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. Williams1, A. Dubra2, H. Song3, M.A. Folwell1, I.R. Latchney2, M.M. Chang3. 1Center for Vision Science, 2Institute of Optics, 3Flaum Eye Institute, University of Rochester, Rochester, NY; 4Ophthalmology, 5Biophysics, 6Medical College of Wisconsin, Milwaukee, WI.


6001 — 9:30 Imaging The Living Human Cone Inner Segment. Ravi S. Jondal1, O.P. Kocaoglu1A, Q. Wang1A, Z. Liu2A, D.T. Miller2A. 1Program in Vision Science, 2School of Optometry, 3Indiana University, Bloomington, IN.

6002 — 9:45 Measuring Individual Cone Directionalities Using Scanning Laser Ophthalmoscopy. Diego Rattia Millan1, B. Vobhissen1. 1School of Physics, University College of Dublin, Dublin, Ireland; 2Department of Electronics and Systems, Universidade Federal de Pernambuco, Recife, Brazil; 3School of Physics, University College Dublin, Dublin, Ireland.

6003 — 10:00 Adaptive Optics-Assisted Optical Coherence Tomography For Patient Imaging. Barry Cense1, K. Suda1, K. Kurokawa1, Y. Yasuno1. 1Ctr for Optical Resrch & Education, Utsunomiya University, Utsunomiya, Japan; 2Institute of Applied Physics, Computational Optics Group, Tsukuba, Japan; 3Computational Optics Group, University of Tsukuba, Tsukuba, Japan.
5604 — 8:30 Optic Nerve Misprojections in the Zebrafish Mutant belladonna: A Disease Model for Infantile Nystagmus Syndrome. Sabina P. Huber-Reggi1, C-C. Chen2, L. Holliger1, D. Straumann2, S-C. Neuhaus3, M-Y. Huang1,2,1. 1Institute of Molecular Life Sciences, University of Zurich, Zurich, Switzerland; 2Department of Neurology, University Hospital Zurich, Zurich, Switzerland. 2Department 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 Turuwhenua1A, M. Hamedani1, Z. Leonidas1, L. Schalenbourg1, M. Hamedani1, Z. Leonidas1, L. Schalenbourg1. 1Pathology, Ophthalmology, Jules Gonin Eye Hospital, Lausanne University, Lausanne, Switzerland; 2Department of Ophthalmology, London, United Kingdom; 3Department of Ophthalmology & Visual Sciences, BDepartment of Radiation Oncology, 1The University of Texas MD Anderson Cancer Center, Houston, TX; 4Pediatric Ophthalmology & Strabismus, Bascom Palmer Eye Institute, Miami, FL.

5606 — 9:00 Uncorrected Antisaccade Errors Predict Cognitive Problems After Mild Traumatic Brain Injury In Younger Children. Larry A. Abel1, A. Phillipou1, J.M. Douglas2. 1Department of Ophthalmology & Visual Sciences, BDepartment of Pathology, 1University of British Columbia, Vancouver, BC, Canada; 2Bradford Teaching Hospitals, Bradford, United Kingdom; 3Department of Medical Physics, University Hospitals of Leicester, Leicester, United Kingdom.

5607 — 9:15 Fatigue and Hypoglycemia Impair Saccade Velocity and Accuracy but not Visual Perception. Benjamin Thompson1,3, S. Duncan1, G. Kuhn1, J.M. Douglas2. 1Optometry & Vision Sciences, University of Auckland, Auckland, New Zealand; 2Department of Ophthalmology and Vision Science, University of Auckland, Auckland, New Zealand; 3Human Communication Sciences, La Trobe University, Bundoora, Australia.

5608 — 9:30 Saccadic Adaptation In Amblyopia. Rana Arham Raashid1, 2M. Chandrakumar1, A. Blakemar1, H. Goltz1, A.M. Wong2, A. Neuroscience and Mental Health, Department of Ophthalmology and Vision Sciences, 1Department of Ophthalmology and Vision Science, The Hospital for Sick Children, Toronto, ON, Canada; 2University of Toronto, Toronto, ON, Canada.

5609 — 9:45 Effect of Compliance to Glasses Wear on the Outcome of Visual Acuity after Refractive Adaptation. Gail Maconachie1, S. Farooqi1, G. Bush1, F.A. Proudlock1, I. Gottlob1. 1Ophthalmology, University of Leicester, Leicester, United Kingdom; 2Bradford Teaching Hospitals, Bradford, United Kingdom; 3Medical Physics, University Hospitals of Leicester, Leicester, United Kingdom; 4Department of Ophthalmology & Strabismus, 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. Birch1, V. Subramanian2, C.S. Cheng3, D. Stager, Jr.4. 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. Qasem J. Nasser1, A. Khan1, W. Morrison1, T. El-Sawy2, S. Frank2, B. Esmail2, A. Section of Ophthalmology, Department of Head and Neck Surgery, BDepartment of Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX.

5613 — 9:00 Mir211 Is Dysregulated In Conjunctival Melanoctytic proliferations. Alexandre P. Moutin1, M. Nicolas1, A. Schalenbourg1, M. Hamedani1, Z. Leonidas1, L. Duncan1. 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(MLE) in Conjunctival Intraepithelial lymphoid cells and Its Differential mRNA Expression in Eyelid Sebaceous Carcinoma. Perumal Jayaraj1, S. Son1, A. Sharma1, A. Kashyap1, A. Rai1, N. Pushker1, M.S. Bajaj2, S. Ghose1, R. Azad1. 1Department of Ocular Pathology, 2Department of Ocular Microbiology, 3Ophthalmoplasty service, Dr.R.P.Centre, A.I.M.S, New Delhi, India; 4Division 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, L.A. Wittenberg1, V.A. White1, A. Primary Intraocular Lymphoma Study Group. 1Department of Ophthalmology & Visual Sciences, 2Department of Ophthalmology & Visual Sciences, 3Department of Pathology, 1University of British Columbia, Vancouver, BC, Canada.


5617 — 10:00 Molecular Histopathology Using Gold Nanorods And Optical Coherence Tomography. Jared L. Matthews1, S. Prabhukar2, A. de la Zerda2, S. Gambhi3, R. Awdeh3. 1Bascom Palmer Eye Institute, Coral Gables, FL; 2Ophthalmology, Bascom Palmer Eye Institute, University of Miami, MI; 3Electrical Engineering and Radiology, 4Bioengineering & Materials Science and Engineering, Stanford University, Palo Alto, CA; 5Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.

5618 — 8:30 Peripapillary Nerve Fiber Layer and Retinal Pigment Epithelium Reflectance Ratio for Glaucoma Diagnosis. Ou Tari1, X. Zhang2, R. Varma3, D. Huang1, B. Casey Eye Institute, Oregon Health & Science Univ, Portland, OR; 2Ophthalmology, USC, Doheny Eye Institute, Los Angeles, CA. 3CR, RP


*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
1Clinical Studies, Univ of Penn Sch Veterinary Med, Philadelphia, PA; 2Dept of Ophthalmology, Scheie Eye Institute, Philadelphia, PA; 3Molecular Genetics & Microbio, 2Ophthalmology, 1University of Florida, Gainesville, FL; 3Ophthalmology, University of Massachusetts Medical School, Worcester, MA; 1N-NRL, Bldg 6, National Eye Institute, Bethesda, MD. *CR

5627 – 9:00  Rhodopsin Mutants Destabilize Rod Outer Segment Disk Membranes. Mohammad Haeri, S.E. Reks, B.E. Knox. Ophthalmology & Neurosciences & Physiology, SUNY Upstate Medical University, SUNY Eye Institute, Syracuse, NY.

5628 – 9:15  Endothelial Progenitor Cells With Low Aldehyde Dehydrogenase Activity Recruited Monooyte-Derived Macrophages Through CCL2 Secretion And Rescued Vessel And Photoreceptor With Retinal Degeneration. Shinichi Fukuda1,2, M. Nagano1, T. Yamashita1, K. Kinura1, K. Akimoto1, I. Tsuboi1, S. Ueno1, M. Kondo1, T. Oshika1, O. Ohneda1.
1Ophthalmology, 2Regenerative Medicine and Stem Cell Biology, Tsukuba University, Tsukuba, Japan; 2Ophthalmology, Nagoya Univ School of Med, Nagoya, Japan; 3Ophthalmology, Mie University Graduate School of Medicine, Tsu, Japan.

5629 – 9:30  Phenotypic conservation in RPGR mutations. Kari E. Branham1, S. Zahid1, N.W. Khan1, M.I. Ohman1, A. Moncrief1, P.A. Sieving1, A. Swaroop5, K. Jayasundera1, J.R. Heckenlively2.
1Ophthalmology and Visual Sciences, University of Michigan, Ann Arbor, MI; 2N-NRL, Bldg 6, National Eye Institute, Bethesda, MD.

5630 – 9:45  CRB2 and CRB1 in Retinal Development and Maintenance. Celso H. Alves1, L. Pellissier1, B. Park1, A. Sanz-Sanz1, S. Beck1, G. Huber2, N. Tamítio1, M. Garrido1, F. Richard1, J. Wijnholds1.
1Neuromedical Genetics, Netherlands Inst for Neuroscience, Amsterdam, The Netherlands; 2Ocular Neurodegeneration Centre for Ophthalmology, Institute for Ophthalmic Research, Tubingen, Germany; 1Ingénieur d’étude CNRS / ACMO, Université de la Méditerranée, Developmental Biology Institute of Marseille Luminy (IBDML), Marseille, France.

5631 – 10:00  Knockout Of Cer2 Promotes Photoreceptor Survival In A Model Of Retinitis Pigmentosa. Atsushi Otani1, C. Guo2, A. Oshi2, N. Yoshimura3. 1Ophthalmology, Japanese Red Cross Wakayama Med Ctr, Wakayama, Japan; 2Ophthalmology, Kyoto University, Kyoto, Japan.

5624 – 10:00  Correlation of Brain Volumes and Functional Deficits in Glaucoma. Alice L. Williams1, J. Lackey1, S. Wizov2, S. Gaitta3, R. Sergott1, R. Burton1, D.F. Garway-Heath4, 5.
1Department of Optometry & Visual Science, City University London, London, United Kingdom; 2NIHR Biomedical Research Centre for Ophthalmology, Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom; 3Institute of Ophthalmology, University College London, London, United Kingdom.

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-Heath4, 5.
1Department of Optometry, Indiana University, Bloomington, IN; 2Clinical Sciences, SUNY College of Optometry, New York, NY; 3SUNY Eye Institute, New York, NY; 4Glaucoma Research Unit, NIHR Biomedical Resrch Ctr for Ophthalm, London, United Kingdom.

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. Dul3, J.K. Torbit1, B.M. Suiton1, R. Malik1, 2.
1School of Optometry, Indiana University, Bloomington, IN; 2Clinical Sciences, SUNY College of Optometry, New York, NY; 3SUNY Eye Institute, New York, NY; 4Glaucoma Research Unit, NIHR Biomedical Resrch Ctr for Ophthalm, London, United Kingdom.

Grand H

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

Retina

510 Retinitis Pigmentosa II

Moderator: John R Heckenlively

5625 – 8:30  Inhibition of Receptor Interacting Protein Kinase Delays Necrotic Cone Photoreceptor Cell Death in a Mouse Model of Inherited Retinal Degeneration. Yusuke Murakami1, H. Matsumoto1, M. Roh1, J. Suzuki1, K. Takeuchi1, D. Mantopoulos1, T. Hisatomi1, Y. Ikeda1, J.W. Miller1, D. Vavvas1.
1Angiogenesis Laboratory, 2Ophthalmology, 3University of Florida, Gainesville, FL; 4Ophthalmology, University of Massachusetts Medical School, Worcester, MA; 1N-NRL, Bldg 6, National Eye Institute, Bethesda, MD. *CR
5661 — A57 Effectiveness In Detecting Area Of Photoreceptor Disruption By Diodioptic Adaptive Optics Scanning Laser Ophthalmoscopy In Diabetic Retinopathy Lesions. S. A. Burns, A. E. Elsner, A. E. Elsner. Optometry, Indiana University, Bloomington, IN; *Optometry, School of Optometry, Indiana University, Bloomington, IN.

5662 — A58 Foveal Microvasculature And Its Relationship To Retinal Thickness. T. Y. Chiu, A. E. Elsner, S. A. Burns. Optometry, Indiana University, Bloomington, IN; *Optometry, School 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 Lombardo, S. Serrao, P. Ducoli, G. Lombardo. IRCCS Fondazione G.B. Bietti, Rome, Italy; CRN-ICPF Unit of Support Cosenza, LiCryL Laboratory, University of Calabria, Rende, Italy.

5664 — A60 Distribution of Outer Nuclear Layer Thickness in SD-OCT Images. Joel A. Papay, C.A. Clark, T.Y. Chui, L. Zhao, A.E. Elsner. Optometry, Indiana University, Bloomington, IN.


5666 — A62 In vivo Imaging of Photoreceptor Loss Associated with Dry Age-Related Macular Degeneration Using Adaptive Optics Scanning Laser Ophthalmoscopy. Adam Boretsky, E. F. Khan1, G. Burnett1, R. Harris1, S. Ooto1, T. Murakami1, N. Yoshimura1, H. Imamura1, K. Nozato1, A. Dubra1, M. Phuques1. Ophthalmology, Lariboisiere Hospital-Paris University, Paris, France; *Optometry, Clinical Investigation Center 503 Quinze-Vingts Hospital, INSERM, Paris, France; Imagine Eyes, Orsay, France; Ophthalmology, UMR-S 968 Institut de la Vision, Paris, France. *CR

5667 — A63 Adaptive Optics Scanning Laser Ophthalmoscopy With Amplitude Pupil Apodization. Yasuji N. Sujita1, A. Dubra1, M. Phuques1. The Institute of Optics, *Flaum Eye Institute, University of Rochester, Rochester, NY; Ophthalmology, Biophysics, Medical College of Wisconsin, Milwaukee, WI.

5668 — A64 Limitations To Adaptive Optics Imaging Quality In Highly Powered Eyes. Xueling Zhou, P. Bedgood, 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. Cooper, J. Rha1, A.M. Dubis2, A. Dubra1,2, J. Carroll2,3, A. Bielicki2,3. Biomedical Engineering, Marquette University, Milwaukee, WI; *Ophthalmology, *Cell Biology, Neurobiology & Anatomy, Biophysics, Medical College of Wisconsin, Milwaukee, WI. *CR


5672 — A68 Assessing the Relationship Between Cone Density and Foveal Morphology. Adam M. Dubis, S.O. Hansen, R.F. Cooper, B.R. Hansen, J. Carroll1,2,3. NCell Biology, Neurobiology and Anatomy, Ophthalmology, Medical College of Wisconsin, Wauwatosa, WI; Biomedical Engineering, Marquette University, 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.


*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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Light Radiated from Myoids for Oblique Incidences upon Foveal Cones. Jean-Marie Gorrand1, M. Doly2. — A104

Extending The Field Of View In Adaptive Optics Scanning Laser Ophthalmoscopy, Franz Felber1,2, J.S. Kroisamer2, C.K. Hitzenberger1, M. Pircher1. — A105

Optics Design For Confocal Scanning Laser Ophthalmoscopy. Chuahong Li1, H. Chen1, Y. Li1, Z. Tang1. — A106

Spectral-domain Optical Coherence Tomography In Acute Macular Neuroepitheliopathy. Imen Chtioui1, V. Martinet1, S.H. Tang1, S. Chang1. — A107

Simulation Of Fundus Image Measurements - One Step Toward Virtual Clinical Trial. Ying-Ling Chen1, L. Shi2, J.L. Lewis1, M. Wang1. — A108

Determinants Of Normal Human Cone Photoreceptor Density Measured By Adaptive Optics Scanning Laser Ophthalmoscope. Sang Pyo Park1,2, J. Chung1, F. Hirose1, S.H. Tang1, S. Chang1. — A109

Oscillatory Potential Contribution to the ERG: A New Mean to Identify Disease Onset. Nataly Tran1, M. Gauvin1, R. Koenekoop1, J. Little1, J-M. Lina1, P. Lachapelle1. — A110

Topographic Mapping Of Functioning Cone And Rod System In Inherited Retinal Degenerations With Confirmed Gene Mutations. Ieva Slissisoryte1, E. Troeger1, S. Kohl1, B. Wissinger1, E. Zrenner2. — A111

Molecular Modeling of RS1 Structure Indicates Two Classes Of Missense Variants With Mild and Severe XLRs Phenotypes. Yuri V. Sergeev1, P.A. Steving1, A. Vincent1, A.G. Robson1, A.R. Webster2, G.E. Holder2. — A112

Retinal Function Assessed By Full-field ERG In Ranibizumab Treated Neovascular AMD Patients. Karen B. Pedersen1, F. Moller1, A. Sjolie1, S. Andreassen1. — A113


New Mean to Identify Disease Onset. Nataly Tran1, M. Gauvin1, R. Koenekoop1, J. Little1, J-M. Lina1, P. Lachapelle1. — A116

Molecular Genetics Modeling Of RS1 Structure Indicates Two Classes Of Missense Variants With Mild and Severe XLRs Phenotypes. Yuri V. Sergeev1, P.A. Steving1, A. Vincent1, A.G. Robson1, A.R. Webster2, G.E. Holder2. — A117

Retinal Function Assessed By Full-field ERG In Ranibizumab Treated Neovascular AMD Patients. Karen B. Pedersen1, F. Moller1, A. Sjolie1, S. Andreassen1. — A118


Neovascular AMD Patients. Karen B. Pedersen1, F. Moller1, A. Sjolie1, S. Andreassen1. — A121


5699 — A114 Visual Impairment in Leber Hereditary Optic Neuropathy Carriers of the Same Pedigree. Aldina A. Reis1,2, C. Mateus3, E. Silva1,2, M. Castelo-Branco1. Visual Neuroscience Laboratory, IBBLI-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. Vision Science, 1Optometry, 1Univ of Alabama at Birmingham, Birmingham, AL.

5703 — A118 The Characteristics Of Cone-driven Oscillatory Potentials In Human Electroretinogram. Bo Leif, H. Peng1, J. Yu1, Q. Li1. 1Ophthalmology, The First Affiliated Hospital of Chongqing Medical University, Chongqing, China; 2Ophthalmology, University of Florida, Gainesville, FL.


5705 — A120 Trichromatic And Dichromatic Electroretinograms Using A Chromatic-Achromatic Temporal Compound Stimulus. Neil R. Parry1, I.J. Murray1, A. Panourgia2, D.J. McKeefry1, B.B. Lee2, J.J. Kremers3. 1Vision Science Centre, Manchester Royal Eye Hospital, Manchester, United Kingdom; 2Optometry & Vis Sci, FLS, Univ of Manchester, Manchester, United Kingdom; 3School of Optometry and Vision Science, University of Bradford, Bradford, United Kingdom; 4Biological Sciences, SUNY College of Optometry, New York, NY; 5Dept of Ophthalmology, University of Erlangen, Erlangen, Germany.

5706 — A121 Seleral Depression Depresses the Photopic ERG. Scott E. Brodie1, J.H. Francis2, B. Murr1, D.H. Abramsor1. Ophthalmology, Mount Sinai School of Medicine, New York, NY; 2Optohalmic Oncology, Memorial Sloan-Kettering Cancer Center, New York, NY.

5707 — A122 Reproducibility Of Visual Electroretinography Recordings Between Laboratories: The Importance Of Regular Calibration. Richard P. Hagan1,2, K.J. Quinn1, L. Milner1,2, R.L. Robinson1,2, A.F. Takta1, A.C. Fisher1,2. 1Department of Medical Physics & Clin Eng, Royal Liverpool Univ Hospital, Liverpool, United Kingdom; 2Clinical Eye Research Centre, Royal Liverpool University Hospital, Liverpool, United Kingdom.

5708 — A123 Generation Of Steady State Pattern Electroretinograms Explained By Convolutions Of Transient Responses. Jonathan A. Toft-Nielsen1, J. Bohorquez1, V. Porciatti2, O. Ozdamar1. 1Biomedical Engineering, University of Miami, Miami, FL; 2Bascom 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. Jun 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, I.J. Murray1, J.J. Kremers1, N.R. Parry1. Optometry, Bradford School of Optometry & Vision Science, Bradford, United Kingdom; 2Electrophysiology, L.V.Prasad Eye Institute, Hyderabad, India; 3Optometry & Vis Sci, FLS, Univ of Manchester, Manchester, United Kingdom; 4Dept of Ophthalmology, University of Erlangen, Erlangen, Germany; 5Vision 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. Varsanyi1,2, B.V. Nagy2, A. Magyar1, A. Farkas1, J. Nemeth4. 1Department of Ophthalmology, 2Dept of Ophthalmology, Semmelweis University, Budapest, Hungary; 3Experimental 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, G. Shi1, X. Tao1, E.L. Smith2, J.M. Chino3. 1College of Optometry, Nova Southeastern University, Plantation, FL; 2College of Optometry, University of Houston, Houston, TX.

5713 — A128 The Use of Optokinetic Response to Quantitatively Measure Visual Acuity in Adult Zebrasift. Penny C. Tam, F. Rassamdana, K. Dang, D. Cameron. Optometry, 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, T.L. Costa1, B.D. Gomes1, L.C. Silveira1, D.F. Verona1. 1Departamento de Psicologia Experimental, Instituto de Psicologia, São Paulo, Brazil; 2Smith-Kettlewell Eye Research Institute, San Francisco, CA; 3Instituto de Ciencias Biologicas, Universidade Federal do Para, Belém, Brazil; 4Nucleo de Medicina Tropical, Universidade Federal do Pará, Belém, 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.


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*CR, twisted summary  
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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, Medical 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, K. Zhao2. 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. Smith1A, J. Mayo1A2, M.A. Sommer1, A. DiTommaso1. 1Ophthalmology, #Center for Neuroscience, #University 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 Aman1, I. Ingster-Moati2, E. Albuissou1, C. Girard1, B. Deflosce1. 1Department of Ophthalmology, Orleans Hospital, Orleans, France; 2Ophthalmology, University Paris 7 Diderot, Necker Hospital, Paris, France; 3Biostatistics Department, University of Medicine, Vandoeuvre-les-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 Rubio1A, C. Tinelli1A, P. Piccinini1A, L. Bossolesi1A, M. Raimondi1A. 1Medical Physics, Leeds Teaching Hospitals, Leeds, United Kingdom; 2Clinical Physics, Royal Hospital for Sick Children, Glasgow, United Kingdom.

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 University Eye Inst, Detroit, MI.


5729 — A144 Electrophysiology And Fluorescein And Indocyanine Green Angiography In Susac Syndrome. Julia M. Promesberger1, A.F. Alex1, I. Kleffner1, J-M. DörR1, N. Eter1. 1Ophthalmology, 2Neurology, University 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 Nicolet1, A. Bron1, 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 Raghuram1, O. Kolawole1, R.M. Hansen1, 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. Ananthavalli Kumarappah1, M.T. McFarlane2, T. Wright3, C. Westall4. 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. Antonello Fadda1, A. Di Renzo1, F. Martelli2, D. Marangoni1, A. Batocchi1, D. Gianninni1, B. Falsini1. 1Technologies and Health, Istituto Superiore di Sanita, Roma, Italy; 2Ophthalmology, GB Bietti Eye Foundation-IRCCS, Roma, Italy; 3Ophthalmology, 4Neurology, 5Catholic University, Rome, Italy.

5735 — A150 Effects of Nicotine on Processing in the Visual Pathways. Naser T. Naser1, V.M. Zemon1, S.B. Varghese1, E.T. Keyser1, E. Hartmann2. 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, Alcala de Henares (Madrid), Spain; 4Departamento de Oftalmologia, Universidad de Alcala, Alcala de Henares (Madrid), Spain.


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5738 – 5757 – Thursday – Posters

Clinical & Epidemiologic Research

516 Diabetic Retinopathy Epidemiology

Moderator: Robin D Hamilton

5738 – 256 Efficacy of Diabetic Retinopathy Screening for Patients Who Were at High-Risk for Sight-Threatening Retinopathy in a County Healthcare System. Glen Y. Ozawa1, T. Litvin1, J.A. Cuadros2, S. Ramsawamy3, M.S. Muller3, A.E. Elsem2, T.J. Gast1. 1UC Berkeley School of Optometry, Berkeley, CA; 2School of Optometry, 3Indiana University, Bloomington, IN; 4AION 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-Nwaobi1, A. Forbes1, S. Sivaprasad1. 1King’s College London, London, United Kingdom; 2Ophthalmology, King’s College Hospital, London, London, United Kingdom.

5741 – A259 Diabetic Retinopathy Inpatient Study. Jessica J. Kovarik1, L.A. Willard2, E.L. Wazna2. 1Ophthalmology, UPMC Eye Center, Eye and Ear Institute, University of Pittsburgh School of Medicine, Pittsburgh, PA; 2Medicine, UPMC Mercy Hospital, Pittsburgh, PA.

5742 – A260 How much does glycated hemoglobin A1c explain the risk of diabetic retinopathy in persons with type 2 diabetes? The Diabetes Management Project (DMP). Jing Xie1, S. Selvarajiah1, R. Kawasaki2, T. Nicolaou3, S. Sanmugasundram1, J. Wang1, T. Wong1, E. Lamoureux1, 2. 1Department of Ophthalmology, Centre for Eye Research Australia, East Melbourne, Australia; 2Department of Ophthalmology, Centre for Vision Research, Sydney, Australia; 3National University of Singapore, Singapore Eye Research Institute, Singapore, Singapore.

5743 – A261 Telemedicine-based Digital Retinal Imaging Improves Diabetic Retinopathy Screening Compliance. Seema Garg1, B. King1, P. Jani1, S. Weir1, T. Karnaowski1, S. Li1, E. Chaum1. 1Dept of Ophthalmology, University of North Carolina, Chapel Hill, NC; 2Oak Ridge National Laboratory, Memphis, TN; 3Hamilton Eye Institute, University of Memphis, Memphis, TN. *CR


5746 – A264 An Edutainment Tool for Increased Compliance with DR Screening and Management, Part 2: Efficacy Study. Anne M. Edwards1, G. Zamora1, A. Matiella1, P. Soliz2. 1VisionQuest Biomedical LLC, Albuquerque, NM; 2The Fotonova Production Company, Santa Fe, NM. *CR

5747 – A265 Efficient Early Diagnosis of Diabetic Retinopathy using zero-dilation Scanning Laser Ophthalmoscopy. Dirk De Brouwere1, P. van Etten2, J. Martinez3, M. Mensink1. 1Ophthalmology, Centre for Vision Research, Sydney, Australia; 2Ophthalmology, National Yang Ming University, Taipei, Taiwan; 3Ophthalmology, National Yang Ming University, Taipei, Taiwan.

5748 – A266 Diabetes and Diabetic Retinopathy in an Australian Cardiac Population: the Australian Heart Eye Study. Adam J. Plant1,2, G. Burlutsky1, J. Chiha3, A. Thiagalingam4, P. Kovoor3, P. Mitchell1,2. 1Ophthalmology, Centre for Vision Research, Sydney, Australia; 2University of Sydney, Sydney, Australia; 3Cardiology, 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 Grauslund4, J.V. Laurson5, S.S. Hoffmann5, A. Green5, M. Nybo5, A. Spolje5. 1Ophthalmology, Centre for Vision Research, Sydney, Australia; 2University of Sydney, Sydney, Australia; 3Cardiology, Westmead Hospital, Sydney, Australia.

5750 – A268 Sight impairment certification amongst patients attending diabetic retinopathy screening in East London. Tunde Peto1, R. Bourkiza1, M. Subash1, J. Da Costa1, D. Qatarneh2, C. Bunce1. 1NHIR Biomedical Research Centre for Ophthalmology, at Moorfields Eye Hospital NHS Foundation Trust and UCL Institute of Ophthalmology, London, United Kingdom; 2UCL Institute of Ophthalmology, London, United Kingdom.

5751 – A269 Risk Factors for Prevalence, Incidence and Progression of Diabetic Retinopathy Among Non-insulin Dependent Diabetics in Taiwan. Shwa-Juan Sheu1, W-L. Ho2, J-Y. Lin3, N-C. Liu4, S-C. Chen4, Y-H. Horng4, H-C. Lam4. 1Department of Ophthalmology, 2Department of Endocrinology, 3Kaohsiung Veterans Gen Hospital, Kaohsiung, Taiwan; 4Ophthalmology, National Yang Ming University, Taipei, Taiwan.

5752 – A270 The Incidence Of Vitrectomy For The Complications Of Proliferative Diabetic Retinopathy. David H. Steel1,2, D. Vaideanui3, S.S. Sandhu1. 1Sunderland Eye Infirmary, Sunderland, United Kingdom; 2Institute of Genetic Medicine, University of Newcastle, Newcastle Upon Tyne, United Kingdom; 3Medical Retina Unit, Centre for Eye Research Australia, Melbourne, Australia.

5753 – A271 Risk factors Associated with Progression from Nonproliferative to Proliferative Diabetic Retinopathy. Kristen H. Nwanyanwu1, N. Taiwar1, T.W. Gardner2, J.S. Wrobel1, J.D. Stein1. 1Ophthalmology and Visual Sciences, 2Internal Medicine, University of Michigan, Ann Arbor, MI.

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-Wingerter1, K. Radakrishnan1. 1Research & Technology Directorate, John Glenn NASA Research Center, Cleveland, OH; 2Dept. 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. Atsuko Kanda1,2,3, K. Noda1,2, W. Saito1, S. Ishida1,2,3. 1Department of Ophthalmology, 2Laboratory of Ocular Cell Biology & Visual Science, 3Hokkaido Univ Grad Sch of Med, Sapporo, Japan.

5756 – A274 Angiogenic and Vasculogenic Factors in the Vitreous from Patients with Proliferative Diabetic Retinopathy. Mohd I. Nawaz1, M.S. Old1, M.M. Siddiqui1, K. Geba2, A.A. El-Aras1. 1Ophthalmology, Kind Saud University, Riyadh, Saudi Arabia; 2Laboratory of Histochemistry and Cytochemistry, University of Leuven, Leuven, Belgium.


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5759 — A277 Angiopoietin-like Protein 6 (ANGPTL6) has Angiogenic Activity on Retinal Endothelial Cells under High Glucose Concentrations. Hirohata Yokouchi, T. Oshihara, S. Yamamoto. Ophthalmology, Chiba Univ Graduate School of Med, Chiba, Japan.

5760 — A278 Role of Nrf2 in the regulation of diabetic retinopathy. Junsung Gong1, Z. Xu2, Y. Wei1, H. Huang1, C. Eberhart3, R. Thimmappay2, S. Biswal1, E.J. Duh1. 1Wilmer Eye Institute, Johns Hopkins Univ School of Medicine, Baltimore, MD; 2Bloomberg School of Public Health, Baltimore, MD.

5761 — A279 Increased Oxygen Saturation In Retinal Vessels Of Patients With Diabetic Retinopathy Requiring Treatment. Christina M. Joergensen1, T. Bek1, S. Hardarson2. 1Wayne State University School of Med, Chiba, Japan; 2University of Iceland/Landspítali, University of Iceland, Reykjavík, Iceland.

5762 — A280 Thioreredoxin Interacting Protein Is Required For S-glutathionylation And Redox Regulation Of VEGF Angiogenic Signal. Mohammed A. Abdelsaid1,2, A.B. El-Remessy1,3. 1Clin & Experimental Therapeutics, Aarhus University Hospital, Aarhus C, Denmark; 2Department of Ophthalmology, University of Iceland/Landspítali, University of Iceland, Reykjavík, Iceland.

5763 — A281 Polymamines Contribute to Diabetic Retinal Edema. Bruce A. Berkowitz1,4, L. Hawel, III1, C. Byus2, D.P. Bissig3, R. Roberts4,5. 1Anatomy/Cell Biol & Ophthal, 2Anatomy & Cell Biol, 3Wayne State Univ Sch of Med, Detroit, MI; 4University of California, Riverside, Riverside, CA; 5Anatomy and Cell Biology, Wayne State Univ School of Med, Detroit, MI.

5764 — A282 Overexpression of IL-1 Receptor Antagonist in the Rat Retina by Retinotrans-duced Gene Transfer Prevents Capillary Loss in Experimental Diabetes. Chiara Gerhardinger1,2, Y. Liu3, Z. Dagher3. 1Schepps Eye Research Institute Massachusetts Eye and Ear, Boston, MA; 2Harvard Medical School, Boston, MA.

5765 — A283 Lipoprotein-associated Phospholipase Inhibition Regulates Retinal Vasopermeability During Experimental Diabetes. Alan W. Stitt1, P. Canning1, P.J. Luther1, J.V. Glone1, 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

5766 — A284 HFD-induced Retinal Microvascular Degeneration: Suggested Role Of Thioreredoxin Interacting Protein (TXNIP). Islam N. Mohamed1,2, S. Hafez1,2, M. Abdelsaid1,2, S. Matragoon1,2, B. Pillai1,2, A. Ergul1,2, J.D. Imig1,2, A.B. El-Remessy1,2,3. 1Clinical and Experimental Therapeutics, University of Georgia, Augusta, GA; 2Vision Discovery Institute, 3Physiology, 4Georgia Health Sciences University, Augusta, GA; 5Pharmacology and Toxicology, Medical College of Wisconsin, Milwaukee, WI.


5768 — A286 Chemokine Mediated Monocyte Trafficking into the Retina: Role of Inflammation in Diabetic Retinopathy. Arup Das4, S. Rangasamy5, P. McGuire6, 1MSc10-5610 Surgery, 2Cell Biology & Physiology, 3Univ of New Mexico Sch of Med, Albuquerque, NM.

5769 — A287 Neural And Vascular Gene Expression Changes In The Diabetic Rat Retina. Jennifer C. Lau1, R.A. Linsenmeier1, B. Miller2, T.S. Kern3, M.B. Grant1. 1Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA; 2University of Utah, Salt Lake City, UT.

5770 — A288 Overexpression of ProNGF Induces Apoptosis and Acellular Capillary Formation Via Activation of P75NRF1, Azza B. El-Remyessy1, M.M. Al-Gayyar2, S. Matragoon1, H. Saragovi1, 1Clin & Experimental Therapeutics, University of Georgia, Augusta, GA; 2Pharmacology, McGill Univ - Jewish General Hosp, Montreal, QC, Canada.

5771 — A289 Vitreous Biomarker Changes in the Progression from Nonproliferative to Proliferative Diabetic Retinopathy. Stephanie M. Ecker, A.O. Igbre, J.C. Hines, B.M. Glaser. 1Department of Ophthalmology, University of Ulm Medical School, Ulm, Germany; 2Integrative Physiology, 3University of Michigan, Ann Arbor, MI.

5772 — A290 Intravitreal Anti-vegf Therapy Blocks Inflammatory Cell Infiltration And Re-entry Into The Circulation In Retinal Microvascular Degeneration: Suggested Role Of Thioredoxin Interacting Protein (TXNIP). Gabriele E. Lang, H.L. Deissler. Department of Ophthalmology, University of Ulm, Ulm, Germany. *CR


5774 — A292 Endothelial Mesenchymal Transition in Human Diabetic Epiretinal Fibrosis. Ray Gariano1, L.L. Zheng2. Ophthalmology, Scripps Clinic, La Jolla, CA; 2Ophthalmology, Stanford University School of Medicine, Palo Alto, CA.

5775 — A293 Similarities and differences of Bevacizumab and Ranibizumab in microvascular retinal endothelial cells. Gabriele E. Lang, H.L. Deissler. Department of Ophthalmology, University of Ulm, Ulm, Germany. *CR

5776 — A294 Microvascular To Oxidative Stress: Ion Channel-dependent Mechanisms. Atsuko Nakazumi1, M. Fukumoto2, D.G. Puro1,2. 1Ophthalmology & Visual Sciences, 2Molecular & Integrative Physiology, University of Michigan, Ann Arbor, MI.


5778 — A296 VEGF_B Prevents Tight Junctional Re-organisation In Retinal Pigmented Epithelial Cells Induced by VEGF_a, Nikita Ved1, J.W. Bainbridge1, D.O. Bates1. 1School of Physiology and Pharmacology, University of Bristol, Bristol, United Kingdom; 2UCL Institute of Ophthalmology, London, United Kingdom.


5781 — A299 Adult Endothelial Progenitor Cell Populations: Functional Differences in Diabetic Retinopathy. Sergio Caballero, Jr1, S. Hazrd1, A. Bhawadekar1, S. Li Calzi2, L.J. Paradisior3, L. Miller1, T.S. Kerr1, M.B. Grant1. 1Pharmacology/Therapeutics, University of Florida, Gainesville, FL; 2America Stem Cell, Inc., Holts, TX; 3Department of Medicine, Case Western Reserve University, Cleveland, OH. *CR
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 (EPC): Implications For Diabetic Retinopathy (DR) Pathogenesis. Maria B. Grant1, A. Bhattacharjee1, P. Hu2, S. Haza3, S. Caballero1, S. Mohr1, S.F. Acbouwer1, D.R. Saban, T. Chann2, J.V. Busik3,4. 1Pharmacology and Therapeutics, University of Florida, Gainesville, FL; 2Department of Anatomy, University of Sydney, Camperdown, Australia; 3Department of Physiology, 4Physiology, Michigan State University, East Lansing, MI; 5Ophthalmology & Visual Science, Univ of Michigan Kellogg Eye Ctr, Ann Arbor, MI; 6Department of Ophthalmology, University Scientific Institute San Raffaele, Milan, Italy. 5CR

5783 — A301 Caspase-14: A Novel Caspase with Potential Role in Diabetic Retinopathy. Sylvia Megyardi1, S. Ahmad1, S. Hsu1, Z. Guret2, E.S. Shin1, N. Sheibani1, M. Al-Shahwane1,4. 1Oral Biology and Anatomy, 2Ophthalmology, 3Georgia Health Sciences University, Augusta, GA; 4Ophthalmology 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


5786 — A340 The Outcome of vitrectomy for chronic diabetic tractional retinal detachment. Muneeza A. Abujamra1, H.N. Al-Shamsi2, H. Al-Dhibi3, N.G. Ghazz1. 1Ophthalmology Residency Program, King Saud University, Riyadh, Saudi Arabia; ‘Vitretina, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia. 5787 — A341 Evaluation of Retinectomy in the Treatment of Severe Retinal Detachment. Thais S. Mendes1, A.M. Gomez1, H.V. Pavan1, A. Baptista1. 1Ophthalmology, Suel Abujamra Institute, Sao Paulo, Brazil; 2Ophthalmology, University of Sao Paulo, Sao Paulo, Brazil.


5791 — A345 Triamcinolone-Assisted Internal Limiting Membrane Peeling During Primary Rhegmatogenous Retinal Detachment Repair Reduces Postoperative Macular Pucker Formation. Rajesh C. Rao1, K.J. Blinder, G.K. Shah1. 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 Stapp1, L. Konstantinidis1, D.S. Wong2, ‘St Paul’s Eye Unit, Royal Liverpool University Hospital, Liverpool, United Kingdom; ‘The Eye Institute, The University of Hong Kong, Hong Kong.

5793 — A347 Air as Tamponade for Retinal Detachments. Arranzuza Mateo Montoya1, M.D. de Smet2. 1Cleric de Montejo (Lauanse, Switzerland), Lauanse, Switzerland; 2Ophthalmology, Cleric de Montejo, Lauanse, Switzerland.


5795 — A349 Hole Position In Rhegmatogenous Retinal Detachment: A Analysis Of Mustard, A Retrospective Interventional Case Series Of 4325 Participants In Relation To The Lincoff-rules7, Ulrich Thelen1, H. Gerd, 1Private Practice, Munster, Germany; ‘Clinic Pallas, Olen, Switzerland.

5796 — A350 Retinal Detachment from Guttering also a Problem after Vitrectomy. Milad Hakimibash1, P. Amini2, A. Khaitib, 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.*CR

5798 — A352 The Effect Of Retinal Detachment On Retinal Oxygenation. Alexander Kyhnel, IIP, S. Traustason1, J. Hjarii, J. Kilgaard1, E. Stefansson, M. La coure1. 1Ophthalmology, Glostrup University Hospital, Glostrup, Denmark; 2Department of Ophthalmology, Landskab University Hospital, Rejkjavik, Iceland.

5799 — A353 Pockets of Subretinal Fluid after Retinal Reattachment Surgery: New Insights with SD-OCT. John B. Miller1, R.C. Rao1, N. Choudhury1, D.M. Wu1, G.K. Shahr1, D. Vavvas1, 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.


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. Kowal2, P. Dufour3, 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. Matsumoto4, T. Kondo4, A. Mizota5. 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.


5809 — A363 Prognosis Factors Of Rhegmatogenous Retinal Detachments Associated With Giant Tear. Mouin Benzerroug1, B. Chanaoui2, O. Genevois3, G. Brassier4, S. Milazzo5, M. Maraine6. 1Ophthalmology, Amiens University Hospital, Amiens, France; 2Ophthalmology, Rousse University Hospital, Rouen, France.


5811 — A365 Characteristics and Outcomes of Rhegmatogenous Retinal Detachment in Stickler Syndrome at a Tertiary Eye Care Center in Saudi Arabia. Saeed T. Alshahrani1, S. Alrashada2, N.G. Ghazi3. 1Ophthalmology, Almarm University Hospital, Amiens, France; 2Ophthalmology, Rouen University Hospital, Rouen, France.


Hall B/C A437-A469
Retina

519 Laser/Choroidal Neovascularization/Retina-RPE Transplantation

Moderators: Lihthoe Wu and Demetrios Vavvas


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. Pocock1, J.W. Oliver1, C.A. Harber2, G.D. Noojin1, R. Schimley2, D.J. Starkel2, 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. Mandle1,2, P. Hsieh1, D.V. Puhlker1,2,4. 1Ophthalmology, 2Hansen Experimental Physics Laboratory, 3Stanford University, Stanford, CA; 4Topcon Medical Laser Systems, Santa Clara, CA. CR

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. Bartse1, D-U.G. Bartsch1, W.R. Freeman1. 1Ophthalmology, University of California San Diego, La Jolla, CA; 2Ophthalmology, Shirley Eye Center, UCSD, La Jolla, CA; 3Ophthalmology, Univ of California-San Diego, La Jolla, CA; 4Ophthalmology, UCS Jacobs Retina Center, La Jolla, CA. CR

5824 — A444 Nd-yag Laser Arteriomyotomy For Central Retinal Artery Occlusion (crao). Clayton Scanlon1, M. Currie1, A. Grant1, E.N. Cetin1, L. Akdaman1. 1Ophthalmology, Saint Louis University Eye Institute, Saint Louis, MO; 2Ophthalmology, Washington University, Saint Louis, MO. CR

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 NFX-B Signaling on Choroidal Neovascularization. Soosa Zandi1,2, S. Nakao1, D. Sun1, R. Schmidt-Ulrich1, A. Schering1, F. Hafezi2, A. Hafezi-Moghadam1. 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-Delbrück-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. Matsunura1, M. Suzuki1, H. Sakaguchi1, N. Takakura2, K. Nishida1. 1Ophthalmology, Osaka University Graduate School of Medicine, Suita, Japan; 2Signal Transduction, Research Institute for Microbial Diseases, Osaka University, Suita, Japan.
5828 – 5848 – Thursday – Posters

1Ophthalmology, University of Tokyo, Tokyo, Japan; 2Pharmaceutical Sciences, Kitasato University, Tokyo, Japan.

1Genetics, Retinal Cell Signaling, Boys Town Nati Res Hospital, Omaha, NE; 2Genetics, Boys Town Ntl'1 Research Hosp, Omaha, NE.

5830 – A450 Topical NDP1 Promotes Microglia Ramification in Experimental CNV. Krishnagopal G. Sheets1, W.C. Gordon1, N.G. Bazan1.
1Neuroscience Center, 2Ophthalmology & Neuroscience Center, LSU 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 Luo1, T. Olsen2, X. Zhang1, S. Dus1, H. Uehara3, N. Singh1, T. Miya1, B. Archer1, Y.Z. Le1, B.K. Ambati1.
1Moran Eye Center, Salt Lake City, UT; 2Department of Ophthalmology, The 306th Hospital of PLA, Beijing, China; 4Department of Medicine and Harold Hamm Oklahoma Diabetes Center, Oklahoma University of Oklahoma Health Sciences Center, Oklahoma City, OK.

Ophthal & Vis Science, University of Louisville, Louisville, KY.


Retina Service, Department of Ophthalmology, Massachusetts Eye and Ear Infirmary and Harvard Medical School, Boston, MA.

5835 – A455 Long-term Results of Photodynamic Therapy in Patients with Age Related Macular Degeneration. Amy Chawla1, J.T. Thompson1, R.J. Sjaarda1.
1Ophthalmology, University of Maryland, Baltimore, MD; 2Ophthalmology, Retina Specialist, Baltimore, MD. *CR

1Dept of Ophthalmology, Rigshospitalet, Copenhagen, Denmark; 2Dept. of Ophthalmology, Grostrup Copenhagen Univ. Hospital, Grostrup, Denmark; 3Eye Pathology Inst, Copenhagen University, Copenhagen, Denmark.

5837 – A457 RPE Tears: An In silico Perspective. Garth G. Whelan, A. Shirinifard, J.A. Glazer.
Physics, Biocomplexity Institute, Bloomington, IN.

5838 – A458 Transplantation of Human ESC-derived RPE Into Rodent Models of Retinal Degeneration. Madalena Carido, Y. Zhu1, B. 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. Lambri1, K. Tiers1, K. Sternhagen1, B. Taylor2, A. Yanagida1, M. Neitz1, J. Neitz1, R.K. Wang1B, T.A. Reh1C.
1Ophthalmology, 2Bioengineering, 3Dept of Biological Structure, 4University of Washington, Seattle, WA; 5Buck Institute for Research on Aging, Novato, CA; 6Ophthalmology, Univ of Washington, Medical School, Seattle, WA. *CR

5840 – A460 Characteristics Of Rat Iris Pigment Epithelial Cells Cultured On Modified Expanded-polytetrafluoroethylene (ePTFE) Substrates. Shen Nian1, C.M. Sheridan2, V. Kearns2, R. Williams2, D. Wong2, K. Yasilev1, A. Bachhuka3.
1Eye Institute, 2Research Centre of Heart, Brain, Hormone and Healthy Aging, 3University of 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, L. Qian1, T. Li1, T. Cogliati1, A. Swaroop1.
1National Eye Institute, National Institutes of Health, Bethesda, MD; 2Department of Ophthalmology, National Cheng Kung University, Taiwan, Taiwan.

Dept of Ophthalmology, RWTH Aachen University, Aachen, Germany.


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. Sachs1, S.H. Popma1.
1Ophthalmology, Clinicum de Montchoisi, Lausanne, Switzerland; 2Preclinical Services, Charles River Laboratories, Montreal, QC, Canada; 3Science Interventional, Menlo Park, CA; 4Janssen Pharmaceuticals Companies of Johnson & Johnson, Radnor, PA. *CR

5845 – A465 Correlation Of The Detection Of Blood Flow In An RPE-choroid 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 Boer1, 2The Rotterdam Eye Hospital, Rotterdam, The Netherlands; 3Rotterdam Ophthalmic Institute, Rotterdam, The Netherlands; 4Erasmus MC, University Medical Center, Rotterdam, The Netherlands; 5Institute 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. Lee2, H.E. Jones2, B. Ahmed3, I.M. Andolina1, P.M. Munro4, K.L. Grieve5, G.W. Aylward6, A.M. Sillito, R.E. MacLaren7.
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.
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, P.D. Westenskow1, T. Kurihara4, J. Wang5, A.L. Dorsey1, S. Bravo4, G. Siuzdak3, M. Friedlander4. 1Cell Biology, 2Center for Metabolomics, 3The Scripps Research Institute, La Jolla, CA.

5854 — A474 Refractive Error and Ocular Biometry in Patients with a History of Retinopathy of Prematurity. Susan E. Yanni1, J.N. Leflter1, 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 InROP Treatment - 5.5 Years Of Experience. Susana M. teixeira1, C.M. Santos4, F.C. Silva4, G. Pires4, R. Barsoso4. 1Ophthalmology, 2Ophthalmology Department,Hospital 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. Schooneveldt, J.J. Fromow-Guerra1, V. Morales-Cantón1, G. Garcia-Aguire1, H. Quiroz-Mercado1, M.A. Martinez-Castellanos2. 1Retina, Asociacion Para Evitar la Ceguera en Mexico, Mexico City, Mexico; 2Retina, Asociacion Para Evitar la Ceguera en Mexico, Mexico, Mexico; 3Retina, Asociacion Para Evitar la Ceguera en Mexico, Mexico City, Mexico; 4Retina, Assoc Para Evitar la Ceguera, Mexico City, Mexico; 5Retina, Assoc Para Evitar la Ceguera, Mexico City, Mexico; 6Retina, Asociacion Para Evitar la Ceguera, Mexico City, 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 1 ROP Compared To Conventional Laser Treatment. Antonio Baldascino1, D. Lepore1, F. Molle1, P. Papacci1, C. Giannantonio1, V. Purcaro1, L. Orazi1, P. Perrini1, A. Molisso1, C. Romagnoli1. 1Pediatrics, 2Catholic University of the Sacred Heart, Rome, Italy.

5859 — A479 Evaluation of the Effects of Intravitreal Injection of Bevacizumab on Contro lateral Eye Treated with Conventional Laser Photocoagulation. Domenico Lepore1, A. Baldascino1, P. Perrini1, L. Orazi1, M.M. Pagliara1, V. Purcaro1, C. Giannantonio1, P. Papacci1, C. Romagnoli1. 1Pediatrics, 2Catholic 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. Schooneveldt, M.F. Chiang, R. Bollens, H. Winninghoff, J. Hernandez-Vargas, V. Morales-Cantón, M. Martinez Castellanos, A.I. Ortiz. 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, Portland, OR; 4Pomona College, Claremont, CA; 5Retina, Asociacion Para Evitar la Ceguera, Mexico, Mexico; 6Retina-Col San Lucas Coyocacan, APEC, Mexico City, Mexico.

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

5863 — A483 Fluorescein Angiography Macular Abnormalities Assessed by Optical Coherence Tomography in Retinopathy of Prematurity. Fernando Schooneveldt, F.E. Giordano1, V. Morales-Cantón1, R.V. Chan1, H. Quiroz-Mercado1, M.A. Martinez-Castellanos2. 1Retina, Asociacion Para Evitar la Ceguera en Mexico, Mexico, Mexico; 2Retina, Asociacion Para Evitar la Ceguera en Mexico, Mexico, Mexico; 3Retina, Asociacion Para Evitar la Ceguera en Mexico, 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.

5864 — A484 New method of analysis of tortuosity of retinal vessels in Retinopathy of Prematurity. Alfredo reibaldi1, A. Scuderi2, A. Longo1, L.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. Aeta-Cansizoglu1, S. You1, D. Erdogmus1, M.F. Chiang1,2,3. 1Ophthalmology, 2Medical Informatics, 3Oregon Health & Science University, Portland, OR; 4Radiology, Massachusetts General Hospital, Boston, MA; 5Electrical and Computer Engineering, Northeastern University, Boston, MA.

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.

Hall B/C — A470-A512

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

Retina

520 Retinopathy of Prematurity II

Moderator: Robison V Chan


5851 — A471 Earlier Laser Treatment Of Retinopathy of Prematurity Could Reduce Need For Vitrectomy. Joo Eun Lee1, S. Jeai1, I. Yun1. 1Ophthalmology, Haenuea Paik Hospital, Inje University, 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, W.W. Merriam4, J.S. Weizer1, J.D. Stein4, S.M. Archer5, S.E. Moroi1. 1University of Michigan Medical School, Ann Arbor, MI; 2Ophthalmology & Visual Sciences, Univ of Michigan-Kellogg Eye Ctr, Ann Arbor, MI; 3Department of Ophthalmology, SUNY Upstate Medical University, Syracuse, NY; 4Crouse Hospital, Syracuse, NY.

5853 — A473 Long-term Follow-up Of The Adults With Retinopathy Of Prematurity Who Received Photocoagulation And Cryopexy Treatments. Hiromichi Kaneko1, C. Fujikata1, 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. Leflter1, 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.
5867 — 5877 — Thursday — Posters

5867 — A487  Outcome of Laser Treatment of AP-ROP in Extremely Premature Infants. Glen A. Gole1,2, D.J. Guinn1, D. Cartwright1.

1Ophthalmology, Royal Childrens Hospital, Brisbane, Australia; 2Paediatrics and Child Health, University of Queensland, Brisbane, Australia; 3Neonatology, Royal Brisbane and Women’s Hospital, Brisbane, Australia.

5868 — A488  New Insights in Retinal Vascular Morphology in Neonates with Congenital Heart Disease. Axel Orozco-Hernandez1, F. Schooneveld1, J. Mercado1, R. Chan1, V. Morales-Canton1, G. Garcia-Aguirre1, M. Martinez-Castellanos1.

1Retina, APEC, Mexico City, Mexico; 2Neonatal Intensive Care Unit, Instituto de Salud del Estado de Mexico, Toluca, Mexico; 3Retina, New York Presbyterian Weill Cornell Medical College, New York, NY.


5870 — A490  Analysis of Postnatal Weight Gain for the Prediction of Severity of Retinopathy of Prematurity. Patricia Butke. Ophthalmology, San Antonio Military Medical Center, San Antonio, TX.


1Neuroscience, ophthalmology, Uppsala University, Uppsala, Sweden; 2Section of Pediatric Ophthalmology, The Queen Silvia Children’s Hospital, Sahlgrenska Academy, University of Gothenburg, Sweden; 3Ophthalmology, Linkoping University, Linkoping, Sweden; 4Ophthalmology, Norrland’s University Hospital, Umea, Sweden; 5Ophthalmology, Lund University Hospital, Lund, Sweden; 6Ophthalmology, St Eriks Eye Hospital, Stockholm, Sweden.


1Birmingham & Midland Eye Centre, City Hospital, Birmingham, United Kingdom; 2Department of Primary Care, University of Birmingham, Birmingham, United Kingdom.

5873 — A493  Macular Pigment Imaging in Infants and Children Using the RetCam. Paul S. Bernstein1, M. Sharifzadeh2, A. Liu1, E. Ernako1, K. Nelson1, X. Shen2, C. Panish1, B. Carlstrom1, R.O. Hoffman1, W. Gellermann1.

1Ophthal and Visual Sciences, Univ of Utah/Moran Eye Center, Salt Lake City, UT; 2Physics, 3Pediatrics, 4Univ of Utah, Salt Lake City, UT.

5874 — A494  Description Of A Technique To Make Stereo Ocular Images And Retina Angiograms Using The Retcam II In Pediatric Patients. Victoria Gonzalez1, F. Schooneveld2, V. Morales-Canton1, M.A. Martinez-Castellanos1.

1Ophthalmology, Asociacion Para Evitar La Ceguera, Mexico, D.F., Mexico; 2Retina, Assoc para Evitar La Ceguera en Mexico, Mexico, Mexico; 3Retina, Assoc para Evitar La Ceguera, Mexico, Mexico; 4Retina and Vitreous, Asociacion Para Evitar La Ceguera, Mexico, Mexico.

5875 — A495  Influence of Foveal Photoreceptor Sub-Elements On Visual Acuity In Premature Infants With And Without Retinopathy Of Prematurity. Anand Vinekar1, K. Avadhani1, M. Sivakumar1, M. Kurian1, P. Mahendradas1, S. Braganza1, R. Shetty1, B. Shetty1.

1Pediatric Retina, 2Narayana Nethralaya PG Institute of Ophthalmology, Bangalore, India.


1Ophthalmology, Weill Cornell Medical College, New York, NY; 2Ophthalmology and Medical Informatics, Casey Eye Institute, Oregon Health & Science University, Portland, OR; 3Ophthalmology, Childrens Hospital Los Angeles, Los Angeles, CA.

5877 — A497  Comparison Of Neurodevelopmental Outcomes In Two Retinopathy of Prematurity (ROP) Cohorts: Standard vs. Revised Oxygen Saturation Protocol Groups. Tamara J. Lee1, J. Bernardo1, C. Tamara J. Lee1, J. Bernardo1, C. 1Ophthalmology, Cleveland Clinic Lerner College of Medicine, Cleveland, OH; 2Cole Eye Institute, Cleveland Clinic, Cleveland, OH.

5878 — A498  Lower Target Oxygen Saturation And Rop. Julio A. Urruty-Zavalia1, N. Crib1, E.G. Knoll1, M.E. Forniez-Paz1, R. Monti1, E. Collino1, E. Esposito1, C.E. Gilbert1, H.M. Serra1.

1University Clinic R Fabiola/Ophthalmol, Universidad Catolica de Cordoba, Cordoba, Argentina; 2Ophthalmology, 3Neonatology, 4Hospital Materno Neonatal Ramon Carrillo, Cordoba, Argentina; 5ICEH / CRU / ITD, London School of Hygiene & Tropical Med, London, United Kingdom; 6Bioquimica Clinica, CIBICI, Fac ultad de Cs Quimicas UNC, Cordoba, Argentina.


1Ophthalmology, 2Pediatrics, 3Samsung Medical Center, Seoul, Republic of Korea.


5882 — A502  Arginase 2 Deficiency Limits Microglia/Macrophage Activation and Prevents Hypoxia-induced Vascular Injury in the Mouse Retina. Jatnas Suwanpradit1, Z. Xia1, S.P. Narayanan1, R.W. Caldwell1, R.B. Caldwell1,2,3.

1Vascular Biology Center, 2Department of Pharmacology and Toxicology, 3Georgia Health Sciences University, Augusta, GA; 4VA 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 Fu1, S.Y. Li1, S. Chung1,2,3, D. Wong1, A.C. Lo1,2,3.

1Eye Institute, 2Anatomy, 3Research 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.


1Ophthalmology & Visual Sciences, 2Pediatrics, 3University of Illinois at Chicago - UIC, Chicago, IL.

5886 — A506  Dark Rearing (DR) as a means of mimicking ‘Physiological Hypoxia’: A rationale for non-invasive treatment of Retinopathy of Prematurity. Samuel J. Adamsen1, P. Kozulin1, R. Maccarone1, S. Yun1, P. Hu1, S. Bist1, J. Prov1, M.C. Madi1, J. McColm1, T. Chan-Ling1.

1Department of Anatomy & Histology, The University of Sydney, Sydney, Australia; 2ARC Centre of Excellence In Vision Science, Australian National University, Canberra, Australia; 3Biomedical & Science Technology, University of L’Aquila, L’Aquila, Italy; 4School of Optometry & Vision Science, University of NSW, Sydney, Australia.


1Pharmacology, Ste-Justine Hospital Research Center, Montreal, QC, Canada; 2Ophthalmology, University of Montreal, Montreal, QC, Canada; 3Pediatrics & Pharmacology, Research Ctr/Hosp Ste Justine, Montreal, 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
**5888 — A508** Decreased IGF1 Expression Associated with Avascular Retina in Model of Retinopathy of Prematurity. Yanchao Jiang1, B. Numpang2, B. Yu3, H. Wang4, G. Smith5, M. McCloskey5, S. Patel6, R. DiGeronomo7, M. Hartnett8, R. Lane9. 1Ophthalmology, John Moran Eye Center, The University of Utah, Salt Lake City, UT; 2Division of Neonatology, The University of Utah, Salt Lake City, UT.

**5889 — A509** A Novel Allostatic Modulator of the IL-1 Receptor Prevents the Development of Oxygen-Induced Retinopathy. Jose C. Rivera1,2, N. Sitara2, D. Hamel3, A. Madaan3, J-C. Honore1, B. Noudi6, M. Blais2, C. Quiniou2, P. Sapieha2, S. Chento6. 1Pediatrics, Ophthalmology, Hospital Sainte-Justine/Montreal University, Montreal, QC, Canada; 2Ophthalmology, Maisonneuve-Rosemont Hospital, Montreal, QC, Canada.


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**5891 — A511** Nitric Oxide and Signal Loss in the “ROP Rat” Retina. Tara L. Favazza1, G. DeWalt2, N. Zhang3, R.M. Hansen3, A.B. Fulton3, W.D. Eldred4, J.D. Akula2. 1Ophthalmology, Children’s Hospital Boston, Boston, MA; 2Biology, Boston University, Boston, MA; 3Ophthalmology, Harvard Medical School, Boston, MA.

**5892 — A512** The Retina and Retractive Outcome in the Rat Model of ROP. Nan Zhang2, T.L. Favazza1, A. Baglieri1, A.B. Fulton2, R.M. Hansen2, P.M. Juvone1, J.D. Akula2. 1Ophthalmology, Children’s Hospital Boston, Boston, MA; 2Ophthalmology, Harvard Medical School, Boston, MA; 3Ophthalmology and Pharmacology, Emory University School of Medicine, Atlanta, GA.

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**5893 — A572** Gene Expression and Immunogenicity of induced Pluripotent Stem Cell-Derived Retinal Pigment Epithelial Cells. Hiroynki Kama1, M. Mandai1, A. Suga1, J. Kinya1, M. Takahashi1. 1Laboratory for Retinal Regeneration, RIKEN Ctr for Devlpmntl Biology, Kobe, Japan; 2Ophthalmology, Kawasaki medical school, Okayama, Japan.
5908 — 5917

Thursday Posters

5908 — 5917

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. Cha4, M-H. Chun4. 1Department of Anatomy, 2Institute of Hansen’s Disease, 3Coll of Med Catholic Univ of Korea, Seoul, Republic of Korea.

5909 — 5909

Characterization Of Human Induced Pluripotent Stem Cells Derived Neurogenic Cells. Wei Kong, N. Yang, X. Li. 1Ophthalmology, the Fourth People’s Hospital of Shenyang City, Shenyang, China; 2Ophthalmology, the 4th Affiliated Hospital of China Medical University, Shenyang, China.

5910 — 5916

Directing Virus-free Human Induced Pluripotent Stem Cells To Differentiate Into Retinal Cells. Xuifeng Zhong, C. Hampton1, T. Park1, D.M. Gamm2, E. Zambidis1, V. Canto-Soler1. 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 — 5919

BDNF and DNA Demethylation Increase Expression of Pluripotent and Retinal Neuronal Genes in ImM10 Müller Glia-Derived Retinal Stem Cells. Deborah C. Otteson1, J. Stubbs, Jr.1B,2A, J.I. Perlman1A,2A. 1Optometry, University of California-Santa Barbara, Santa Barbara, CA; 2Cell and Neurobiology, University of Southern California, Los Angeles, CA.

5912 — 5919

Transcriptomic Comparison of RPE Derived from Two Human Embryonic Stem Cell Lines with Human Fetal RPE. Lawrence J. Rizzolo1, G. Gan1, S. Peng1,2, T.A. Van Zyl1, L.S. Edirwicke-ward1, H. An1, M. Zhong1, C. Qiu1, R.A. Adelman1. 1Surgery/Ophthalmology, 2Cell Biology, 3Cell and Neurobiology, University of Southern California, Los Angeles, CA.

5913 — 5924

Retinal Differentiation Of Human Es Cells Maintained In Chemically Defined, Xeno-free E8 Culture Medium. Kyle Wallace1, A. Gerner2, J. Martin1, Z. Hou1, 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 — 5915

Microparticles in Differentiation of Retinal Pigment Epithelial Cells from Human Pluripotent Stem Cells. Anni E. Sorkko1, T.H. Ilmarinen1, J.S. Loo1, H.T. Skottman2. 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 — 5916

Transfection of IGF-1 and IGFBP-1 in Neuronal Progenitor Cells from Human Persistent Fetal Vascular for Neuroprotection. Jie Ma1, C. Guo1, G. Chen1, D. Cyr2, J. Klashik1,2, 3Schepps Eye Research Institute, Boston, MA; 2The Second Xiangya Hospital, Central South University, Changsha, China; 3Massachusetts Eye & Ear Infirmary, Boston, MA.

5916 — 5919


5917 — 5922


5918 — 5926

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.

5919 — 5925


5920 — 5929

Evaluation of hESC-Derived Retinal Pigment Epithelial Cells Cultured as a Monolayer on Polymer Substrate Transplanted in RCS Rats. Padmaja B. Thomas1, B.B. Thomas2, L. Liu3, Y. Hu1, D. Zhu1, E. Barron1, D.O. Clegg1, D.R. Hinton1, M.S. Humayun4. 1Ophthalmology, 2Doheny Eye Institute-USC, Los Angeles, CA; 3Cell and Neurobiology, University of Southern California, Los Angeles, CA; 4Bioscience II, Univ of California-Santa Barbara, Santa Barbara, CA; 5Pathology, Keck School of Medicine USC, Los Angeles, CA.

5920 — 5924

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

5921 — 5922

Injury of the Adult Zebrafish Retina Induces Expression of Purinergic Receptors and Ectonucleotidases that Control In Vivo Cell Proliferation. Ariadna G. Battista, M.P. Faillace1. 1Laboratorio di Neurociencias, Piso 7, Universidade de Buenos Aires Facultad de Medicina, Buenos Aires, Argentina; 2Instituto de Quimica y Fisicoquimica Biologicas (IQUBIB), Buenos Aires, Argentina.

5927 — 5927

HB-EGF is a Master Regulator of Müller Glia Dedifferentiation and Retina Regeneration. Jin Wan, D.J. Goldman. Molecular & Behav Neurosc Inst, University of Michigan, Ann Arbor, MI.
Thursday – Posters – 5928 – 5952

8:30 am – 10:15 am

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

Glaucosa / Clinical & Epidemiologic Research

522 Surgery and Lasers

Moderators: Robert D Fechtner and Colm J O'Brien

5928 — A153 Long-term Efficacy of Endoscopic Cyclophotocoagulation Combined with Cataract Surgery. Carter N. Kirk1, T.Q. Kirk2, S.H. Kirkk. 1Georgetown University School of Medicine, Washington, DC; 2Ophthalmology, Allegheny General Hospital, Pittsburgh, PA; 3Ophthalmology, Kirk Eye Center, River Forest, IL.

5929 — A154 Trabectome™ Outcomes in Patients of African Descent. Ninitta H. Jones1, L.S. Jordan2. 1Ophthalmology, Howard University, Washington, DC; 2Ophthalmology, Howard University Hospital, Washington, DC.


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

5932 — A157 Characteristics and Outcomes of Eyes with Neovascular Glaucosa (NVG) that Underwent Combined Pars Plana Vitrectomy (PPV) and Baerveldt Glaucosa Shunt Procedure. Christopher W. Sceery1, C. Sceery2, P. Emami-Naeimi1, A. Kolomeyer1, M. Zarbin1, R. Fetchner2, N. Bhagat1. UMDNJ - Bucknell University, Florham Park, NJ; UMDNJ, Newark, NJ.


5935 — A160 A Prospective Study of Phakic vs Pseudophakic Eyes After Phacoemulsification in Trabectomey for Open-Angle Glaucosa. Yuji Takihara1, M. Inatani2, M. Iwao1, M. Kawah1, T. Inoue1, K. Iwao2, H. Tanihara1. 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.

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 Loteprednol Versus None. Ronald L. Rebenitsch1,2, N.R. Binder1, A. Jani1, K. Pikey2. Ophthalmology, University of Missouri-Kansas City, Kansas City, MO.


5941 — A166 Efficacy Of Glaucosa Surgical Procedures: A Systematic Review And Metaanalysis. Luciano Quaranta1, I. Floriani2, I. Riva3, G. Gambirasio1, I. De Simone2, E. Rullif, E. Biagioli1, S. Credi1. 1Ophthalmology-Glaucosa 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 Trabectomey: Results Of A Prospective Rct. Delan Jinajipriya1, L. Beltran-Aguillo1, Y.P. Jin1,2, L.D. Wegschuch1, G.E. Trope1,3, Y.M. Buys2. 1Ophthalmology, Queen’s University, Kingston, ON, Canada; 2Ophthalmology and Vision Sciences, 3Dalla Lana School of Public Health, 4University of Toronto, Toronto, ON, Canada; 5Ophthalmology, Shaare Zedek Medical Center, Jerusalem, Israel.


5944 — A169 Progression Rate Before and After Trabectomey. Jimena Schmidt1, S. Aرانeda2, E. Abusleme1, C. Perez2, E. Maul D1, E. Maul F1, A. Gerhard1, C. Triger1. 1Ophthalmology Department, Catholic University of Chile, Santiago, Chile; 2Ophthalmology Department, Sotero del Rio Hospital, Santiago, Chile.

5945 — A170 Success Rates And Risk Factors For Failure Of Bleb Needling Post Trabectomey. Andrew Toren1, S. Kulkarni2, L. Shuba1, M. Nicoleti1. 1Ophthalmology & Visual Sciences, Dalhousie University, Halifax, NS, Canada; 2Ophthalmology, University of Ottawa, Ottawa, ON, Canada.


5948 — A173 Outcome And Structural Evolution Of Mytomycin Assisted Trabectomey In Inflammatory Glaucosa. Friederike Mackensen1, B.C. Dobner2, A.B. Knoll1, A.F. Scheurer1, K. Rohrschneider1. 1Department of Ophthalmology, Interdisciplinary Uveitis Center, University of Heidelberg, Heidelberg, Germany; 2Department of Ophthalmology, University of Heidelberg, Heidelberg, Germany.


5950 — A175 Impact of Trabectomey Surgery on Global Visual Field Indices Using Data from Advanced Glaucosa Intervention Study (AGIS). Linda Zhang, D.C. Musch, L.M. Nizio1, J.D. Stein. Ophthalmology, University of Michigan, Ann Arbor, MI.

5951 — A176 Single Digit Intraocular Pressure In Post Trabectomey 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.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures –  Travel Grant Awardee
5953 — A178 The Influence Of Secleral Flap Thickness, Shape, Suture Number And Position On Pressure Change And Aqueous Flow Direction In A New Trabeculectomy Model. Amir Samsudin1,2, S. Brocchini1,2, P.T. Khaw1, I. Eames1.
1University of Malaya, Kuala Lumpur, Malaysia; 2NIHR Biomedical Research Centre, Moorfields Eye Hospital and UCL Institute of Ophthalmology, London, United Kingdom; UCL School of Pharmacy, London, United Kingdom; 3UCL Department of Mechanical Engineering, London, United Kingdom.


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

1University of Malaya, Kuala Lumpur, Malaysia; 2Ophthalmology, Hospital Clinic de Barcelona, Barcelona, Spain; 3UCL Institute of Ophthalmology, Great Ormond Street Hospital, London, United Kingdom; 4UMDNJ - New Jersey Medical School, Newark, NJ.

1Department of Ophthalmology, Hospital Clinic de Barcelona, Barcelona, Spain; 2Ophthalmology, St Joseph, Paris, France; 3Ophthalmology, MEEI / HMS, Reading, MA; 4Ophthalmology Practices, University, Floral Park, NY.


5959 — A184 Primary and Repeat Selective Laser Trabeculoplasty in Pseudophakic Eyes: 2 year follow-up. Tamara L. Bereczina1, A.S. Khouri1, B.A. Maltzman1, K. Shah1, R.D. Fechtner1.
1Ophthalmology, UMDNJ-New Jersey Medical School, Newark, NJ; 2Drexel University, Philadelphia, PA.


1Albert Einstein College of Medicine, Bronx, NY; 2Ophthalmology, National University Hospital, National University Health System, Singapore, Singapore; 3Ophthalmology, National University of Singapore, Singapore, Singapore.

1Ophthalmology, University Hospital, National University Health System, Singapore, Singapore; 2Ophthalmology, Ludwig-Maximilians-University, Munich, Germany.


5964 — A189 Predictive Factors Of Selective Laser Trabeculoplasty (SLT) Outcome in Open-Angle Glaucoma Patients. Mamma Shah, B. Eliassi-Rad. Department of Ophthalmology, Boston University School of Medicine, Boston, MA.

Ophthalmology, UMDNJ - New Jersey Medical School, Newark, NJ.

5966 — A191 The Cost Effectiveness And Duration Of Effectiveness Of SLT As Primary And Secondary Therapy Relative To Medications In The Treatment Of Primary Open Angle Glaucoma. Ernesto D. Golez, III1, T.A. Shazly2, A. Sekura, A. Neubauer, C. Hirneiss. Ophthalmology, Hospital Clinic de Barcelona, Barcelona, Spain.

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 Med Sch, Newark, NJ; 2Ophthalmology, Hudson Eye Physicians and Surgeons, Jersey City, NJ; 3Drexel University, Philadelphia, PA.


1Department of Ophthalmology, Ochsner Clinic Foundation, New Orleans, LA; 2Psychological and Brain Sciences, University of Louisville, Louisville, KY.

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.

1Ophthalmology, Temple University, Philadelphia, PA.

5972 — A197 Quantification of Short-Term Endothelial Cell Loss and Intraocular Pressure Reduction Following Laser Peripheral Iridotomy. Gabriela C. Barretto1, L. Trancoso1, M. Cotã1, L. Bitelli1, 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. Dhaval Haria1, R. Sasikumar2, S. A V2.
1Department of Ophthalmology, Harvard Medical School, Boston, MA; 2Glaucoma, Iridotomy in Asian Indian Eyes with Angle Closure.

Department #75, CHNO 15/20, Paris, France.
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. Fossarelo. 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. Staurenghi. Dpt of Clinical Science, Eye Clinic Sacco Hospital, Milano, Italy. *CR


5981 — A206  Scanning Electron Microscopy Findings In Rabbit Eyes Undergoing Ultrasonic Cyclocoagulation. Florent Apel1,2, A. Béglé1, T. Charrel1, C. Lafon1, J-Y. Chapelon2, P. Denis1, F. Romano1. 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. Siegel1, W-S. Shieh2, O.S. Faridi3, M.S. Jutze3, M.E. Citron4, M.J. Siegel1, L.I. Siegel1. 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; *Glaucoma Center of Michigan, Southfield, MI.

Hall B/C   D804-D848

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

Cornea

523 Corneal Endothelium

Moderator: Ula V Jarkunas

5983 — D804  Analysis of the Role of ZEB1 in the Pathogenesis of Posterior Polymorphous Corneal Dystrophy. Vivek S. Yellore1, R.K. Gangalami2, S.A. Rayner1, C.K. Nguyen3, Z. Jing1, S.P. Bhat1, A.J. Alade1. Jules Stein Eye Institute, Univ of California-Los Angeles, Los Angeles, CA; *Ophthalmology, Jules Stein Eye Institute, UCLA, Los Angeles, CA; *Jules Stein Eye Institute, University of California, Los Angeles, Los Angeles, CA; *Ophthalmology, Jules Stein Eye Institute UCLA, Los Angeles, CA; *Cornea Service, CHS/ UCLA, Los Angeles, CA.


5986 — D807  Surgical Management and Outcomes of Patients with Concurrent Fuchs’ Corneal Endothelial Dystrophy and Keratoconus - A Multi-Center Case Series. Charles S. Bouchard1, S. Virat1, U. Abogu1, B. Sperling1, S. Basti1, S.B. Hannouh1. Ophthalmology, Loyola University Chicago, Maywood, IL; *Cornea Service, Wills Eye Institute Cornea Service, Langhorne, PA; *Ophthalmology, NWestern Univer Feinberg Sch of Med, Willowbrook, IL.

5987 — D808  Genetic screen of African-Americans with Fuchs endothelial corneal dystrophy. Natalie A. Afshari1, M.A. Minear2, J. Schmidt1, N. Litt1, A. Deschambeault3, I. Brunette4. Ophthalmology, Mayo Clinic, Rochester, MN; *Duke Center for Human Genetics, Durham, NC; *Duke Eye Center, Durham, NC; *Duke 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. Zanlolo1, C. Bostan1, O. Rochette Drouin1, A. Deschambeault3, I. Brunette4, 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.


5990 — D811  Regional variability in endothelial cell density in Fuchs Endothelial Corneal Dystrophy; An HRT3 Study. Christina R. Prescott, P. Hamrak, U. Jarkunas. Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA.


5992 — D813  Reconstruction of a Corneal Endothelium Using Cells From Patients With Fuchs Endothelial Corneal Dystrophy. Stephanie Proul2, M. Hayday3, B. Goyer4, O. Roy1, S. Laprise1, O. Rochette Drouin1, I. Brunette4. 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.


5994 — D815  Fabricating Bioengineered Corneal Endothelial Cell Sheet Through Chitosan-polycaprolactone-blended Membranes. Tsung-Jen Wang1,2, I-J. Wang1,2, T-H. Young2. *Department of Ophthalmology, Taipei Medical University Hospital, Taipei, Taiwan; *Department of Ophthalmology, National Taiwan University Hospital, Taipei, Taiwan; *Department of Ophthalmology, National Taiwnan University Hospital, Taipei, Taiwan; *Department of Ophthalmology, National Taiwan University College of Medicine, Taipei, Taiwan.

5996 — D817 Kinetics of Intracellular Pro-apoptotic Bax Protein Inducing Cell Death in Corneal Endothelial Cells. Marko Pastak1, B.B. Singer2, A. Kovut2, M. Czugała3, B. Seitz1, M. Epplie4, K.-P. Stuhl3, S. Ergin1, T.A. Fuchslegler1,2. 1Institute of Anatomy, 2Department of Ophthalmology, Essen University Hospital, Essen, Germany; 3Department of Ophthalmology, University of Duisburg Essen, Essen, Germany; 4Department of Ophthalmology, Saarland University Hospital, Homburg/Saar, Germany.


5999 — D820 Rock Inhibitor Eye Drops Accelerate Corneal Endothelium Wound Healing In A Primate Model. Naoki Okumura1,3, N. Koizumi1, M. Ueno2, Y. Sakamoto1, H. Takahashi2, K. Yamasaki1, R. Torii3, J. Hamuro2, S. Kinoshita2. 1Biomedical Engineering, Doshisha University, Kyotanabe, Japan; 2Foundation for Biomedical Research and Culture of Tokyo Graduate School of Medicine, Bunkyo-ku, Tokyo, Japan; 3School of Optometry, Indiana University, Bloomington, IN; 4Singapore Eye Research Institute, Singapore, Singapore; 5Singapore National Eye Centre, Singapore, Singapore; 6Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 7Department of Clinical Sciences, Duke-NUS Graduate Medical School, Singapore, Singapore.

6000 — D821 Culture of Human Corneal Endothelial Cells (HCECs) for therapeutic purposes. Jesintha Navaratnam1, J.K. Slettedal2, E. Gulliksen1, S. Boye4, M.C. Moe1, L. Drolsum2, B. Nicolaissen1. Center for Eye Research, Department of Ophthalmology, Oslo University Hospital, Oslo, Norway.

6001 — D822 Increased Proliferation and Replicative Lifespan of Isolated Human Corneal Endothelial Cells with L-Ascorbic acid 2-phosphate. Satoru Yamagami1,2, N. Shima1, M. Kimoto2, M. Yamazaki2. 1Ophthalmology, University of Tokyo Graduate School of Medicine, Bunkyo-ku, Japan; 2Foundation for Biomedical Research and Innovation, Kobe, Japan.


6003 — D824 In Vitro Expansion Of Corneal Endothelial Cells On Biomimetic Substrates. Rachelle Palchesko1,2, J.L. Funderburgh1, A. Feinberg1. 1Ophthalmology, University of Pittsburgh School of Medicine, Pittsburgh, PA; 2Biomedical Engineering, Carnegie Mellon University, Pittsburgh, PA.

6004 — D825 Lentivirus Mediated Interference With the ZO-1/ZONAB Pathway Induces Cell Cycle Progression in Human Corneal Endothelial Cells. Daniel Kampik1, M. Basché1, A. Georgiadis1, U.F. Luhmann1, A.J. Smith1, F. Larkin1, R.R. Ali1. 1Department of Genetics, UCL Institute of Ophthalmology, London, United Kingdom; 2Moorfields Eye Hospital, London, United Kingdom.

6005 — D826 Functional Study of SLC4A11 in HEK293 cells. Diego G. Ogando1, S.S. Jalimarada1, E.N. Vitaha1, J.A. Bonanno1. 1School of Optometry, Indiana University, Bloomington, IN; 2Singapore Eye Research Institute, Singapore, Singapore; 3Singapore National Eye Centre, Singapore, Singapore; 4Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 5Department of Clinical Sciences, Duke-NUS Graduate Medical School, Singapore, Singapore.


6008 — D829 Over-representation Preliminary Analysis Between Expressed Genes In Corneal Endothelium And Mesenchymal Stem Cells. Jorge E. Valdez1,2, J. Zavala1, V. Treviño3, E. Martínez1. 1Dean’s Office, Tecnologico de Monterrey; 2University of California, Los Angeles, CA; 3Arizona State University, Tempe, AZ; 4National University of Singapore., Singapore, Singapore.

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, M. Nakahara1, M. Ueno2, S. Kinoshita3, Y. Kanemura4, Y. Susa5, N. Kozumi1. 1Biomedical Engineering, Faculty of Life and Medical Sciences, Doshisha University, Kyotanabe, Japan; 2Ophthalmology, Kyoto Prefectural Univ of Med, Kyoto, 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. Schmeltz, U. Jurkunas. Scheepsen / Massachusetts Eye and Ear, Harvard Medical School, Boston, MA.

6012 — D833 NF-κB is the Transcription Factor of FGF-2 that Causes Endothelial Mesenchymal Transformation in Cornea. JeongGoo Lee1,2, J.M. Heur1, E.P. Kay1,2. 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. Balehous1, H.-P. Ang1, M.-X. Lee1, D.T. Tan1, J. Mehta2,4. 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. Wung1,2, T. Eppig2, A. Langenbuecher2, B. Seitz1, N. Szentmáry1. 1Department of Ophthalmology, 2Experimental Ophthalmology, 3Saarland University Hospital, Homburg/Saar, Germany; 4Department of Ophthalmology, Renmin Hospital of Wuhan University, Wuhan, China.


6018 — D839 Study of Effect of Donor Age and Death Necululation Time on in-vitro Culture of Human Corneal Endothelial Cells. Hini Singh1, R. Tandon2, S. Mohanty1, A. Kumar2,3. 1Ophthalmology,Dr.R.P. Centre for Ophthalmic Sciences, 2Stem Cell Facility, 3All India Institute of Medical Sciences, New Delhi, India.
6019 — D840 Enhanced Survival and Expansion of Bovine Corneal Endothelial Progenitors using Accutase. Wing Yan Yu1, C.M. Sheridan1, I. Grieson1, A.C. Lo1,1,10, D. Wong4,10, 3Eye Institute, 1Research Centre of Heart, Brain, Hormone and Healthy Aging, 1The University of Hong Kong, Hong Kong, Hong Kong; 2Department of Eye and Vision Science, University of Liverpool, Liverpool, United Kingdom. *CR

6020 — D841 Cytotoxicity of Ganciclovir on Cultured Human Corneal Endothelial Cells. Young Joo Shin1, J. Ko1, T. Chung1, J. Hyon1, W. Wee1. 1Ophthalmology, Hallym University College of Medicine, Seoul, Republic of Korea; 2Ophthalmology, Chosun University School of Medicine, Kwangju, Republic of Korea; 3Ophthalmology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea; 4Ophthalmology, Seoul National University College of Medicine, Seoul, Republic of Korea. *CR

6021 — D842 Cytoplasmic Localization Of P120ctn And N-cadherin In Ex Vivo Expansion Of Human Corneal Endothelial Cells On Anniotic Membrane. Ray J. Tsai1, R.Y. Tsai1. 1Ophthalmology, Taipei Eye Center/Taipei Medical University, Taipei, Taiwan; 2Ophthalmology, Taipei Eye Center, Taipei, Taiwan. *CR


6023 — D844 Endothelial Keratoplasty: The Relationship Between Six Month Postoperative Endothelial Cell Density And Graft Survival. Asemt A. Alqudah1, M.A. Terry1, M. Straiko1, M. Greiner1, D. Davis-Bozzer1. 1Cornea, 2Corneal Services, 3Devers Eye Institute, Portland, OR; 4Lions Eye Bank of Oregon, Portland, OR. *CR


6025 — D846 Corneal Endothelial Reserve and Corneal Endothelial Reserve Factor for Intraocular Surgeries. Fernando C. Abib1, D.S. Abib1,2. 1Anatomy, 2Anesthesiology, 3Federal University of Parana, Curitiba, Brazil. *CR

6026 — D847 Long-Term Endothelial Cell Density with Phakic Foldable Iris-Claw Intraocular Lens (Verilex®). Natalie Kaplan1, H. Dick1, W. Sekundo1, N. Pfiffer1, U. Vossmerbaeumer1. 1Department of Ophthalmology, Mainz University Medical Center, Mainz, Germany; 2Department of Ophthalmology, Ruhr University Bochum, Bochum, Germany; 3Department of Ophthalmology, Marburg University Medical Center, Marburg, Germany.

6027 — D848 Improvement Of Endothelial Keratoplasty Lamellar Dissection By Combined Use Of Femtosecond And Eximer Lasers. Liem Trinh1,2,3, B. Sauvagnac1,4, F. Auclair1,2,3, A. Denoyer1,2,3, R. Lai-Kuen1, M. El Hamdaoui1,4,10, A. Labbé1,2,3, M-C. Despiau1, F. Brignole-Baudouin1, C. Baudouin1,4. 1Ophthalmology III, Clinical Investigation Center (CIC) 503, 2Pharmacy, 3Quinze-Vingts National Hospital, Paris, France; 4INSERM U705, UMR CNRS 8206, Paris, France; 5Plaute Technique d’Imagerie Cellulaire et Moléculaire, 6Toxicology, 7Faculty of Biological and Pharmacological Sciences, University of Paris 5 René Descartes, Paris, France; 8Vision Institute, UMRS 968, University Pierre et Marie Curie Paris 6, Paris, France.

Hall B/C D849-D896
Thursday, May 10, 2012, 8:30 AM-10:15 AM

Cornea

524 Keratoplasty II (Eye Banking, Substrates, Penetrating and Lamellar Grafts, Keratoprosthesis)

Moderator: Vincent M Borderie

6028 — D849 Main indications for admission to a corneal transplant program in Mexico: Analysis of the National Transplant Registry. Jose A. Claros1, A.J. Ramirez-Miranda1, R. Vargas1, A. Navas1, A. Gomez1, A. Jimenez-Corona1, E.O. Graue1. 1Cornea And Refractive Surgery, Instituto de Oftalmología de Ciudad de Venalcania, Mexico City, Mexico; 2Instituto Nacional de Salud Publica, Cuernavaca, Mexico.

6029 — D850 Evolution of Corneal Transplantation in the Province of Quebec from 2000 to 2011. Louis-Pierre Gauvin1, J. Lapointe1, M-È. Choronzey2, S. Graue1. 1Cornea And Refractive Surgery, Instituto de Oftalmología de Ciudad de Venalcania, Mexico City, Mexico; 2Instituto Nacional de Salud Publica, Cuernavaca, Mexico.

6030 — D851 Average Waiting Time before Keratoplasty and Possible Variation of this Deadline According to the Seasons: Retrospective Study about 318 cases and 10 Years of Follow-up. Jean-Marc Perone, A. Agapie, O. Guechi, O. Ghechi, I. Botez, P-J. Bertaux, A. Ferte. 1Department of Ophthalmology, Regional Hospital Center of Metz, Luxembourg, France; 2Hôpital de Metz Bon Secours, Metz, France.


6032 — D853 European Study On Reliability Assessment Of Endothelial Cell Count In Eye Banks: The Eurokeratostest Study. Gilles Thuer1, Z. He2, N. Campolmi2, B. Ha Thi3, J. Dumollard4, M. Pesc5, N. Delesalle1, A. Bernard1, P. Gain1. 1Ophthalmology, Pathology, 2University Hospital of St-Etienne, Saint-Etienne, France; 3Cornal Graft Biology, Engineering and Imaging Laboratory, EA2521, Federative Institute of Research, Faculty of Medicine, Jean Monnet University, Saint-Etienne, France; 4The French Health Products Agency (Afssaps), Saint-Denis, France.


6035 — D856 Downs Syndrome Donor Tissue: Suitability and Outcomes of Stromal Replacement Corneal Transplantation. Syed Mahmood A. Shah1, M. Moshirfar2, M. Mifflin3, V. Khaljai1. 1Flaura Eye Institute, University of Rochester Medical Center, Rochester, NY; 2Moran Eye Center, University of Utah, Salt Lake City, UT.


6037 — D858 Cross-linked Variants Of A Novel Semi-synthetic Collagen Substitute For The Reconstitution Of The Surface. Corinna Petch1, U. Schlotzer-Schrehardt1, M. Frey2, F.E. Kruse1, B. Bachmann1. 1Ophthalmology, University Hospital Erlangen, Erlangen, Germany; 2Department of Ophthalmology, University of Erlangen-Nürnberg, Erlangen, Germany; 3RESORBA Wundversorgung GmbH & Co. KG, Nuremberg, Germany; 4Department of Ophthalmology, University of Erlangen Nürnberg, Erlangen, Germany. *CR


6039 — D860 Investigation for the Possibility of Using Polymer Hydrgols as a Device for Cultivation and Transplantation of Corneal Epithelial Cells. Toru Matsunaga1, Y. Watanabe2, T. Sato3, T. Funaki1, A. Matsuda1, N. Ebihara1, A. Murakami1. 1Dept of Ophthalmology, Juntendo Univ School of Med, Bunkyo-Ku, Japan; 2Research and Development, SEED Co., Ltd., Kounosu-Shi, Japan.
6040 — D861 Reduced Hem-And Lymphangiogenesis Into A Fisheye-derived Collagen Scaffold Used As Biological Artificial Cornea (BioCornea). Deniz Hoc1, F. Bock2, B. Regenfuss3, J. Onderka4, C.C. Lin5, H.J. Lai6, 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 Erlangen-Nuremberg, Erlangen, Germany; 5Department of Ophthalmology, University of Amsterdam, Amsterdam, 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. Griffith1, J-I. Ahn2, K. Merrett3, R.L. Hendricks4, J.V. Forrester5. 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; 4Aeon Astron Europe, Erlangen-Nuremberg, Erlangen, Germany; 5Department of Ophthalmology, University of Erlangen-Nuremberg, Erlangen, Germany; 6047 Washington, Seattle, WA.

6047 — D870 Graft Failure And Intraocular Pressure Control After Keratoplasty In Iridocorneal Endothelial Syndrome. Desmond T. Quek1,2, S. Han1,3, T. Wong1,3, D. Tan1,3, J. Mehta1,3. 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 Djougiariotis1, 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 Guechi, J-M. Perone, A. Agapie, O. Gheorghe, A. Ferte, I. Botez, P-J. Bertaux. Ophthalmology, Regional Hospital Center of Metz, Metz, France.


6058 — D879 Femtosecond Laser-Assisted Mushroom Configuration Penetrating Keratoplasty And Deep Anterior Lamellar Keratoplasty In Advanced Keratoconus. Simon S. Fung1, P. Aiello2, A. Iovieno3, C. Nicci3, V. Maurino4. 1Cornea and External Disease Service, Moorfields Eye Hospital, London, United Kingdom; 2Department of Biopathology, 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. Lam2, C.S. Liu1, C.C. Hall2. *Ophthalmology, Sussex Eye Hospital, Sussex Eye Hospital, United Kingdom; 2Optometry & Visual Science, City University, London, United Kingdom.


6062 — D883 Field of View of Modified Osteo-Odontokeratoprosthesis. Victor M. Hernandez1,2, C. de Freitas1, G.C. Falcinelli1, Y. Sawatari1, V. Perez1, D. Sathia1, F. Manns1,2, E.C. Alfonso1,2, J-M. Pareja1,2. *Ophthalmic Biophysics Center, 1Department of Ophthalmology, 2Bascom Palmer Eye Institute, Miami, FL; 2Department of Biomedical Engineering, Biomedical Optics and Laser Laboratory, University of Miami, Coral Gables, FL; 3Department 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. Zelander, M. Mukhos1, M. Cho1. *Bioengineering, University of Illinois at Chicago, Chicago, IL; *Physical 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-Antoine2, M. Harissi-Dagher3,4. *Ophthalmology, 1Microbiology, 2Centre Hospitalier de l’Université de Montréal (CHUM), Hôpital Notre-Dame, Montréal, QC, Canada.


6068 — D889 Retroprosthetic Membrane Thickness and Risk of Melt in Patients with Type I Boston Keratoprosthesis. Kavitha R. Sivaraman, Anita Shukla1, A. Cruzat1, J-C. Abad1, C.H. Dohlman1, K. Colby1. 1Ophthalmology, Massachusetts Eye & Ear Infirmary, Boston, MA; 2Ophthalmology, Clinica Oftalmica de Medellin, Medellin, Colombia.


6071 — D892 Long-term Follow-up Of Implanted Boston Type I Keratoprosthesis And Angle Structural Changes Using External Segment Optical Coherence Tomography. Cynthia X. Qian1, Y. Hassana2, M. Harissi-Dagher2. 1Ophthalmology, 2Medicine, University of Montreal, Montreal, QC, Canada.


6074 — D895 Monitoring Of Glaucoma After The Implantation Of A Keratoprosthesis. Riccardo Scotto1, M. Papadia2, A. Bagnis3, A. Macri4, C.E. Traverso5. 1Ophthalmology, DiNOG, University of Genoa, Genova, Italy; 2Di NOG, 3Eye Clinic, 4Clinica Oculistica - Di NOG, 5University of Genova, Genova, Italy; 6Azienda 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

6076 — D897 Effect of Contact Lens Solutions on the Antimicrobial Efficacy of Human Tear Proteins during Lens Disinfection. Bianca L. Price1, P.B. Morgan2, C. Maldonado-Codina3, C.B. Dobson4. 1Faculty of Life Sciences, 2EuroLens Research, Faculty of Life Sciences, 3University of Manchester, Manchester, United Kingdom. *CR

6077 — D898 Effects Of Multi-purpose Solutions On The Viability And Encystment Of Clinical Isolates Of Acanthamoeba Determined By Flow Cytometry. Masaki Imayasu1, K.T. Tchedre1, H.D. Cavanagh2. 1R&D Center, Menicon Co Ltd, Kasugai, Japan; 2Ophthalmology, Univ Texas Southwestern Med Ctr, Dallas, TX. *CR

6078 — D899 Evaluation Of Commercially Available Novel Multipurpose Contact Lens Care Solutions Effect On Membrane-associated Mucin Expression In The Rat Cornea. Kissau T. Tchedre1, M. Imayasu1, Y. Horii2, H.D. Cavanagh2. 1R&D and Innovation Center, Menicon LTD, Kasugai, Japan; 2Ophthalmology, Toho University Sakura Medical Center, Sakura, Japan; 3Ophthalmology, Univ Texas Southwestern Med Ctr, Dallas, TX. *CR

6079 — D900 Comparison of Disinfection Efficacies of Four Contact Lens Care Regimens Against Pseudomonas aeruginosa on Orthokeratology Lenses. Yoshie Ito1, N. Miyata2, T. Kawagoe3, M. Nobuhisa4, E. Okada5. 1Okada Eye Clinic, 2Okada Eye Clinic, 3Yokohama, Japan; 4Department of Ophthalmology and Visual Science, Yokohama City University, Yokohama, Japan.


6081 — D902 Antimicrobial Properties Of Selenium Covalently Incorporated Into The Polymer Of Contact Lens Case Material. Ted W. Reid1, P. Tran1, C. Jarvis2, J. Thomas3, K. Tran1, T. Mosley2, R. Hayes3, A. Hamood4. 1Ophthalmal & Visual Science, 2Microbiology, 3Texas Tech University Health Sciences Center, Lubbock, TX; 4Selenium Ltd., Lubbock, TX; 5Selenium Ltd., Austin, TX. *CR


6085 — D906 Antimicrobial Efficacy of Melmine Covalently Bound to Contact Lenses. Debarun Dutta2, N. Cole3, M. Willcox3. 1Brien 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. Allgeier2, M.D. Willcox3, P. Hugenholtz4. 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
1Brien Holden Vision Institute, Sydney, Australia; 2School of Optometry and Vision Science, University of New South Wales, 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. Grasmick3, R. Fagon4, P. Rat5.
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, Toxicologie Analytique et Cellulaire (EA 4463), Université Paris Descartes, Sorbonne Paris Cité, Faculté de Pharmacie, Paris, France. *CR

6092 — D913 Morning Cleaning or Replacement of Contact Lenses Reduces Complications with Extended Wear of Contact Lenses. Jerome Ozkan1, M.D. Willcox2, P. Lazon De La Jara3, Y.M. Rathi4, B.A. Holden5.
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. *CR

R&D, Alcon, Johns Creek, GA. *CR

6094 — D915 Effect of Soft Contact Lens Storage Solutions on Lens Wettability In-Vitro. Raised Fagehi1, A. Tomlinson2, V. Manahilov.
1Brien Holden Vision Institute, East Jerusalem, Palestine; 2Institute of Ophthalmology, East Jerusalem Biomedical Institute, East Jerusalem, Palestine. *CR

1Mechanical and Aerospace Eng, University of Florida, Gainesville, FL; 2R & D, Alcon Research Ltd, Fort Worth, TX. *CR

Semprus BioSciences, Cambridge, MA. *CR

1Chemical Engineering, McMaster University, Hamilton, ON, Canada; 2Biomedical Engineering, University of Calgary, Calgary, AB, Canada.

1ACCLR, School of Optometry, 2School of Optometry, 3University of Waterloo, Waterloo, Waterloo, ON, Canada.

Bausch + Lomb, Rochester, NY. *CR

6100 — D921 Solute Release From Soft-contact-lens Hydrogels. Csaba Kotsmar1, T. Nadolski2, N. Taylor1, K. Yeh1, C.J. Radke.
Chemical & Biomolecular Eng, Univ of California at Berkeley, Berkeley, CA. *CR

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. Kakisu2, Y. Yamazaki1, T. Sato2, T. Tochikubo1.
11st Dept of Ophthalmology, Toho University, Tokyo, Japan; 2SEED Co Ltd, Kounosu-shi, Japan. *CR

1Materials Science and Engineering, University of Florida, Gainesville, FL; 2R & D, Alcon Research Ltd, Fort Worth, TX. *CR

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

6105 — D926 Oxygen Diffusion Behind Modern Sercial Rigid Gas Permeable Contact Lenses. Sofia C. Peixoto-de-Matos1, V. Compañ2, S. Moya1, J. Jorg1, J.M. Gonzalez-Meijome1.
1Center of Physics, University of Minho, Braga, Portugal; 2Applied Thermodynamics, Universidad Politécnica de Valencia, Valencia, Spain. *CR

1Optometry, Indiana University, Bloomington, IN; 2Mathematics, IUPUI, Indianapolis, IN.

Alcon, Johns Creek, GA. *CR

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

6109 — D930 Design and Development of an In Vitro Tear Replacement System. Saman Mohammadi, M. Gorbett. Systems Design Engineering, University of Waterloo, Waterloo, ON, Canada.

Product Design Group, Bausch + Lomb, Rochester, NY. *CR

6111 — D932 Interfacial Interactions Of Cationic & Anionic Artificial Tears With Ionic Hydrogel Contact Lens Surface. Muhammad Abdulaziz1, S. Benita2.
1Ophthalmology/Innovative Interventions, East Jerusalem Biomedical Institute, East Jerusalem, Palestine; 2Institute of Drug Research, Hebrew University of Jerusalem, Jerusalem, Israel. *CR

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, 6Ophthalmology, University of Iowa, Iowa City, IA. *CR

1Mechanical and Aerospace Eng, University of Florida, Gainesville, FL; 2R & D, Alcon Research Ltd, Fort Worth, TX. *CR

1Materials Science and Engineering, University of Florida, Gainesville, FL; 2R & D, Alcon Research Ltd, Fort Worth, TX. *CR

2Materials Science and Engineering, University of Florida, Gainesville, FL; 2R & D, Alcon Research Ltd, Fort Worth, TX. *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


6119 — D940 The Impact of Intermittent Air Exposure on the Deposition of Lipids on Silicone Hydrogel and Conventional Hydrogel Contact Lens Materials. Holly I. Lorenzt, M. Heynen, W. Khan, D. Truex. 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. Beuerman, E.A. Berger, Y. Zhang, M.E. Foldenauer, R.P. Barrett, Y. Zhang, L.D. Hazlett. Department of Anatomy and Cell Biology, Wayne State University School of Medicine, Detroit, MI.

6125 — D946 Measuring The Kinetics and Activity of Adsorbed Proteins: In Vitro Lysozyme Deposited Onto Contact Lenses Over Short Time Periods. Brad Hall, L. Jones, J.A. Forrest. ©School of Optometry, ©Department 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**


6128 — D988 Pseudomonas aeruginosa Small Protease (PASP), a Keratitis Virulence Factor. Richard J. O’Callaghan, A. Tang, M. Marquart, A. Caballero. Dept of Microbiology, Univ of Mississippi Med Ctr, Jackson, MS.

6129 — D989 Cxcl Contributions To Host Resistance Following Pseudomonas Aeruginosa Corneal Infection But Not To Herpes Simplex Virus Type 1. Katie M. Hudson, D.J. Carr. ©Ophthalmology, ©Microbiology and Immunology, ©University of Oklahoma Health Sciences Center, Oklahoma City, OK.

6130 — D990 Vasoactive Intestinal Peptide Regulates Toll-like Receptors in the Infected Cornea. Xiaoyu Jiang, R.P. Barrett, 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 aeruginosainfected BALB/c Mice. Megan E. Foldenauer, S. McClellan, R. Barrett, L. Hazlett. Anatomy & Cell Biology, Wayne State University - School of Medicine, Detroit, MI.


6133 — D993 Virulence factors in Pseudomonas aeruginosakerasitii. Henri Sueke, T. Shankar, T. Neal, S. Aldwinckle, C. Winstanley, S. Tufli, S.B. Kaye. ©Microbiology Ophthalmic Group. ©Ophthalmology, ©Microbiology, ©Royal Liverpool University Hospital, Liverpool, United Kingdom; ©Microbiology, University of Liverpool, Liverpool, United Kingdom; ©Ophthalmology, Moorfields Eye Hospital, London, United Kingdom.

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

6135 — D995 Characterization Of Pseudomonas Aeruginosakerasita Type Three Secretory System (TTSS) Effector Molecules (Exo U/S/T) From Human Corneal Ulcer. Jeganathan lakshmi priya, S. Sivaganesa Karthikvani, N. Venkatesh Prajna, E. Pearlman, A. Rietsch, P. Lalitha. ©Microbiology, Aravind Medical Research Foundation, Madurai, India; ©Ophthalmology and Visual Sciences, Case Western Reserve University, Cleveland, OH; ©Dept. of Molecular Biology and Microbiology, Case Western Reserve University, Cleveland, OH.

6136 — D996 Interactions of Pseudomonas aeruginosakerasita with human corneal fibroblasts in vitro; Ahmad Elsahn, C. Heath, M. Christodoulides, P. Hossain. ©Infection, Inflammation & Immunity, University of Southampton, Southampton, United Kingdom; ©Eye Unit, University Hospital Southampton NHS Foundation Trust, Southampton, United Kingdom.


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

Bilateral Herpetic Keratoconjunctivitis in Cancer Patients. Elvia Cansecio1, J. Modak1, A. Kingham1, V. Arevalo1, S.K. Kim2. 1Ophthalmology, UT Houston Health Science Center (UTHSC), Houston, TX; 2Ophthalmology Section/Head and Neck Surgery, UT MD Anderson Cancer Center, Houston, TX.

Hsv1-specific Meganuclease May Reduce Ocular Infection In A Mouse Model Of Herpes Keratitis. Marc Labetoulle1,2, E.E. Gabison1,4, N. Huot1, A. Rousseau1, S. Barradeau1, C. Mahier1, M. Gailedrat4, C. Desseaux1, B. Chapellier1, A. Ergani1. 1Ophthalmology, Hospital Bicetre, South Paris University, Le Kremlin Bicetre, France; 2Cesars, upr 3296, Laboratoire de Virologie Moleculaire et Structurale, Gif sur Yvette, France; 3Hospital Bichat AP-HP Cornea, Fondation A de Rothschild, Paris, France; 4Institut de la Vision, Paris, France; 5Genomic Vision, Bagneux, France; 6Cellectis BioTherapies, Saint Aubin, France.

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. Stone3, D.J. Carr1. 1Microbiology and Immunology, Univ of Oklahoma Health Sci Ctr, Oklahoma City, OK; 2Ophthalmology, University of Oklahoma, Oklahoma City, OK.

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. Kabbara1, M.C. Villacres2, C. Nguyen1, S.L. Wechsler1, L. BenMohamed1. 1Gavin Herbert Eye Institute, University of California, Irvine, Irvine, CA; 2University of Southern California, Los Angeles, CA.

Non-Muscle Myosin II Mediates HSV-1 Entry Into the Cells of the Human and Pig Corneas. Thessicar E. Antoine1,2, A. Ergani1, D. Shulka1,2,8. 1Ophthalmology and Visual Sciences, 8Microbiology and Immunology, University of Illinois at Chicago, Chicago, IL.

Corneal Dendritic Cells Suppress Local Corneal Damage and Mediate Systemic Viral Dissemination in Herpes Simplex Keratitis. Kai Hu1, H. Ghiats1, U. Von Andrian1, P. Hamrba1. 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.

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Thursday – Posters – 6162 – 6184

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

Immunology & Microbiology / Cornea

527 Cornea/ Anterior Segment Infection and Inflammation II

Moderator: Curtis R Brandt

6162 – D1022 Association between Atopy and Herpetic Eye Disease in a Hawaiian population. John A. Gonzales1, D. Borkar1, V. Tham2, A. Vinova2, E. Estberg1, N. Acharya1. 1F.I. Proctor Foundation, University of California San Francisco, San Francisco, CA; 2Ophthalmology, Kaiser Permanente Honolulu, Honolulu, HI.

6163 – D1023 Pattern of Herpetic Eye Disease In A Referral Centre In Milan, Northern Italy. Giulio Modorati1, E. Miserocchi1, I. Bianchi1, A. Colucci, F. Bandello. Dept of Ophthalmology, Univ Hospital San Raffaele, Milan, Italy.


6165 – D1025 Practice Patterns in the Management of Anterior Herpes Simplex Virus Eye Disease Compared to Herpetic Eye Disease Study Group Findings. Tabassum F. Ali, D. Liao, I.U. Scott. Department of Ophthalmology, Penn State Milton S. Hershey Medical Center, Hershey, PA.

6166 – D1026 Findings In Detection Of Herpesviridae By Real-time Polymerase Chain Reaction And Intraocular Antibody Production In A Case-series Of Anterior Uveitis. Marie-Helene Errera1, P. Goldschmidt1B, L. Batellier1B, S. Kilvington1A, C. Chaumeil1B. Ophthalmology, Interdisciplinary Uveitis Center, RCM.

6167 – D1027 The Immune Response To 3 Different Therapies In Herpetic Stromal Keratitis. Mauricio Cedillo Sarabia, Sr1, R. Velasco Ramos, II1, S. Perez Tapia, III1, A. Babayan Sosa, V1, O. Baca Lozada, V1, O. Fernandez Vazquez, V1, R. Suarez, Velasco, V1, G. Cortés Sanchez, V1, M. Navarro Pena, V1. Cornea, Fundacion Hospital de Nuestra Senora de la Luz, MEXICO DF, Mexico; 2Department of Immunology, National School of Biological Sciences ENCB-IPN, MEXICO DF, Mexico.

6168 – D1028 Diagnosis of Herpetic Uveitis is Aided by Confocal Microscopy with the HRT RCM. Alexandra B. Knoll, I. Metzger, F. Mackensen. Ophthalmology, Interdisciplinary Uveitis Center, University Hospital Heidelberg, Heidelberg, Germany.*CR

6169 – D1029 Clinical and epidemiological characteristics of infectious keratitis at Fundacion Banco de Ojos “Fernando Oca del Valle” in Paraguay. Martin M. Nentwich1, M. Bordan1, D. Sanchez di Martino1, A. Ruiz Campuzano1, W. Martinez Torres2, S. Lichi1, M. Samudio1, N. Fariña2, F. Laspiña1, H. Mino de Kaspar1. 1Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; Fundacion Banco de Ojos “Fernando Oca del Valle”. Instituto de Investigaciones en Ciencias de la Salud, Asuncion, Paraguay.

6170 – D1030 10 year experience of fungal keratitis at the University of Iowa. Gina M. Rogers, K.M. Goins, A.S. Kitzmann, N.A. Syed, M.D. Wagoner. Ophthalmology & Visual Science, University of Iowa, Iowa City, IA.


6173 – D1033 Characterization Of Bacteria From Contact Lens Storage Cases Of Corneal Infiltrative Event Patients. Simon Kilvington1, J.P. Showler1, M. Nikolic1. 1Corneal R&D Microbiology, Abbott Medical Optics, Santa Ana, CA; 2Northeastern Eye Institute, Santa Ana, CA; 3Northwestern Eye Institute, Scranton, PA.


6175 – D1035 Rapid Identification of Microorganisms Using the Two-Photon Ophthalmoscope, Yin Hong Qu1, K.E. Thomas2, M. Eugenia Vola3, A-C. Roch-Levecq3, Y-K. Wu1, T.L. Purcell1, J.F. Bille1, D.J. Schanzlin1. 1Medical Physics, Heidelberg University, Heidelberg, Germany; 2Shiley Eye Center, UCSD, La Jolla, CA.

6176 – D1036 Reduced Corneal Inflammation By Birch Leave Extract In Combination With Sub-therapeutic Cyclosporin A. Katrin Wacker1, C. Gründemann1, R. Huber1, T. Reinhard1, J. Schwartzkoff1. 1University Eye Hospital, Freiburg, Germany; 2Department of Environmental Health Sciences, University Medicine Centre, Freiburg, Germany.*CR

6177 – D1037 Topical sCD83 Induces Graft Tolerance In High-risk Corneal Transplantation. Felix Bock1, A. Steinkassner2, C. Cursiefen3, E. Zinner3. 1Department of Ophthalmology, University of Cologne, Cologne, Germany; 2Department of Dermatology, University of Erlangen, Erlangen, Germany.

6178 – D1038 Effect Of Rapamycin And IL-2 On Regulatory CD4^+CD25^+Foxp3^+T Cells In Mice After Allogenic Penetrating Keratoplasty. Qihua Le1, X. Wang1, W. Wang1, J. Xu1. Ophthalmology, Eye & ENT Hospital of Fudan University, Shanghai, China; 2Ophthalmology, Eye & ENT Hospital of Fudan University, Shanghai, China.

6179 – D1039 Clinical Similirities among Meibomitis-Related Keratoconjunctivitis, Phlyctenular Keratitis and Ocular Rosacea in Childhood. Tomo Suzuki1, Y. Sano1, N. Koyoi1, S. Kinoshita1. 1Department of Ophthalmology, Kyoto Prefectural University of Medicine, Kyoto, Japan; 2Kyoto City Hospital, Kyoto, Japan.

6180 – D1040 ICAM-1 is Necessary for Efficient Accumulation of CD11c+ Cells in Healing Corneal Epithelium. Yuan Gao1, Z. Li1, C.W. Smith2. 1Auckland Eye Biology, 2Ped-Children’s Nutrition Rsrch Ctr; 3Baylor College of Medicine, Houston, TX.

6181 – D1041 Expression Of Adhesion Molecules During Development Of Conjunctiva-Associated Lymphoid Tissue. Uta Gehlsen1, S. Siebelmann1, M.E. Stern1, J.Y. Niederkorn1, P. Siever1. 1Ophthalmology, University Hospital of Cologne, Cologne, Germany; 2Biological Sciences, Allergan, Inc, Irvine, CA; 3Department of Ophthalmology, UTSouthwestern Medical Center, Dallas, TX.*CR


6183 – D1043 Peripheral Antigen Presenting Cells Are Differentially Distributed in Normal and Inflamed Murine Corneas. Albert H. Alhatem1, U.H. von Andrian1, P. Hamrahi2. 1Cornea Service and Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 2Immune Disease Institute, Program in Cellular and Molecular Medicine at Children’s Hospital Boston, Harvard Medical School, Boston, MA.

Thursday Posters

1685 — D1045  In Vivo Confocal Microscopy Of Corneal Langerhans Cells In Systemic Lupus Erythematosus (SLE) Without Ocular Surface Manifestation. Miklos D. Resch1, L. Marovsky2, E. Medgyessy2, A. Balog1, L. Kovacs1, J. Nemeth1. 1Dept Ophthalmology, Semmelweis University, Budapest, Hungary; 2Rheumatology Department, University of Szeged, Albert Szent-Györgyi Clinical Center, Faculty of Medicine, Szeged, Szeged, Hungary.


192  6185 — 6208 — Thursday — Posters

Andrea Leonardi1A, D. Faggian1B, A. La Gloria

1687 — D1047  Inhibitory Role of ICOS in Antigen-specific T cell-mediated Ocular Tissue Damage. Misao Terada1A, H. Taniguchi1B, R. Abe2, J. Hori3A. 2Division of Lab Animal Science, 3Ophthalmology, Nippon Medical School, Bunkyo-ku, Japan; 3Research Institute for Biological Science, Tokyo University of Science, Noda, Japan.


1690 — D1050  Etiology Diversity Of Atypical And Severe Anterior Uveitis. Audrey Fel1, M. Bojanova2, V. Touitou1, P. Le Hoang1, F. Rozenberg2, B. Bodaghi3A. 1Ophthalmology, Hopital la Pitié Salpêtrière, Paris, France; 2Virology, Hopital Cochin, Paris, France.

1691 — 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.

Hall B/C  D1052-D1077
Thursday, May 10, 2012, 8:30 AM-10:15 AM

528 Anti-Infectives and Ocular Disease

Moderator: Ellen J Lee


6194 — D1054  Emergence Of Pan-drug Resistant Pseudomonas Aeruginosa As A Cause Of Microbial Keratitis. Melre Fernandes1A, A. Pathengay1B, N. Kumar2A, 3Cornea and Anterior Segment, 4Ocular Microbiology Service, 1L V Prasad Eye Institute, Visakhapatnam, India; 2Retina, Bascom Palmer Eye Institute, Miami, FL.


6197 — D1057  Heterogeneous Vancomycin-Intermediate Staphylococci Isolates from Endophthalmitis. Paulo J. Bispo1A, D. Miller2A. 1Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 2Universidade Federal de Sao Paulo, Sao Paulo, Brazil.


6199 — D1059  Moxifloxacin Superior To Cefuroxime In Reducing Early-phase Adherence Of Staphylococcus Epidermidis To Hydrophobic Intracorneal Lenses. Fatulahah Benhouzid1, S.A. Bailiff1, F. Renaud1, D. Hartmann2A, P. Denis1B, L. Motterle1A, M. Plebani1B. 1Division of Lab Animal Science, 2Department of Microbiology, 3Department of Immunology & Microbiology / Cornea / Retina / Retinal Cell Biology / Biochemistry & Molecular Biology


6200 — D1060  N-chloretaurine,n-monochloro-deimethyltaurine And N-chloro-deimethyltaurine Are Safe And Effective Bactericidal Agents In Cornea Models. Barbara Teuscher1A, E. Schmidt1A, M. Nagl2A, N. Bechraikis3A. 1Ophthalmology, 2Microbiology, 3Innsbruck Medical University, Innsbruck, Austria.

6201 — D1061  Therapeutic Effects of Topical Bacteriophage KPP12 Administration on Pseudomonas aeruginosa Keratitis in Mice. Ken Fukuda1A, W. Ishida1B, J. Uchiyama2A, T. Morita1A, Y. Haradai1A, T. Sumi3A, S. Matsuzaki1A, M. Daibata1A, K. Miki1A, F. Fukushina1C. 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 Poster-Nasopharyngial Syndrome. Manfred Zierhut, C.M. Deuter; D. Doycheva, B. Sobolewska. Centre for Ophthalmology, University of Tuebingen, Tuebingen, Germany.

6205 — D1065  Treatment of Nummal Keratitis with Intracorneal Gancyclovir. Eduardo Arenas1A, M. Mielhh1. 1ophthalmology, Santa Fe Foundation, BOGOTA, Colombia; 2Asocornea, Bogota, Colombia.

6206 — D1066  In Vitro Effectiveness Of Photodynamic Therapy Against Multi-resistant Pathogens. Katrin Winkler1A, M. Finke1A, J. Wang1A, N. Sumentary1A, T. Eppig2A, H.-J. Foth1, D. Höttenberger1A, A. Langenbuecher3A, B. Seitz1A, M. Bischoff1A. 1Department of Microbiology, 2Department of Ophthalmology, 3Experimental Ophthalmology, Saarland University, Homburg, Germany; 4Physics Department, University of Kaiserslautern, Kaiserslautern, Germany; 5Apocare Pharma GmbH, Bielefeld, Germany; 6Experimental Ophthalmology, 7Department of Ophthalmology, Saarland University, Homburg/Saar, Germany.*CR


6209 — D1069 Treatment of Infectious Keratitis from Acanthamoeba by Corneal Crosslinking. Martin Berra1, G. Galperin1, G. Boscaro1, J. Zarate1, J. Tsai1, P. Charadi1, A. Berra1. Lab de Investigaciones Oculares, Buenos Aires, Argentina; 2Biofundus, Buenos Aires, Argentina; 3Servicio de Oftalmología-Hal.Clinicas, Buenos Aires, Argentina.

6210 — D1070 In Vitro Investigation of Riboflavin/UV-A-mediated Elimination of Acanthamoeba Castellani. Karim Mekdoumi1,2, A. Backman1a, J. Mortensen1a, S. Crafoord1a,2.

6211 — D1071 In Vitro Efficacy Of Amoebicidal Treatment Using Riboflavin/UV-A (365nm) Combination. Jonathan Letch, Jr1, A. Sauer1, C. Speeg-Schatz1, A. Abou-Bacar2, E. Candolfi2, T. Bourciert1. 1Service d’Ophthalmologie, Nouvel Hopital Civil, Strasbourg, France; 2Laboratoire de Parasitologie et de Mycologie Medeciale, Hopitaux Universitaires de Strasbourg, Strasbourg, France.


6214 — D1074 The Effect of Low Concentrations of Benzonatide Chloride on Acanthamoeba survival. Elmer Y. Tu1, M.E. Shoff2, C.E. Joslin3. 1Ophthalmology, University of Illinois at Chicago, Glenview, IL; 2CDRH/OSEL/DB, FDA, Silver Spring, MD; 3Ophthalmology/Visual Sciences, University of Illinois at Chicago, Chicago, IL.


6216 — D1076 Systemic vs. Combination Antiviral Therapy and Retinal Outcomes in Acute Retinal Necrosis. Stephanie K. cranmer1, C. Flaxel1, S. Yeh2. 1Ophthalmology, Casey Eye Institute, Portland, OR; 2Ophthalmology, Emory Eye Center, Decatur, GA.

6217 — D1077 Organo-selenium Coatings Inhibit Multiple Species Of Biolim Formation On Different Types Of Ophthalmic Device Material. Kelly T. Mitchell2, P. Tran1, A. Arnett1, T. Mosley2, R. Hanes3, C. Jarvis2, A. Hamood2, L. Dominguez4, T. Reid2,3. 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. Sugar1,2,3, A.T. Lyon1, R.A. Lewis2, D.A. Jabs2, M-H. Heinemann4, J.P. Dunn5, J.H. Kemper6. Studies of Ocular Complications of AIDS Research Group. 1Biostatistics, Epidemiology, Bloomberg School of Public Health, The Johns Hopkins University, Baltimore, MD; 2The Sidney Kimmel Comprehensive Cancer Center, 3Ophthalmology, The Johns Hopkins University School of Medicine, Baltimore, MD; 4Ophthalmology, Northwestern University, Chicago, IL; 5Ophthalmology, Medicine, Pediatrics, Molecular and Human Genetics, Baylor College of Medicine, Houston, TX; 6Ophthalmology, Internal Medicine, Mount Sinai School of Medicine, New York, NY; 7Ophthalmology, Weill Cornell Medical College, New York, NY; 8Ophthalmic Oncology Service, Department of Surgery, Memorial Sloan Kettering Cancer Center, New York, NY.

6219 — D1079 The Best Functional Predictor of HIV Status in Relation to the Retinal Damage. Afsana Karim1, J. Koak2, D-U.G. Bartosch3, H. Lemus1, L. Dustin1, J. Chhablani2, G. Bartselli2, H. Wang3, S.P. Azen4, W.R. Freeman5. 1UCSD Jacobs Retina Center, 2Ophthalmology, University of California San Diego, La Jolla, CA; 3Ophthalmology-Shiley Eye Ctr, Univ 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, USC Keck School of Medicine, Los Angeles, CA; 8Ophthalmology, UCSD Jacobs Retina Center, La Jolla, CA.


6221 — D1081 Association between HIV Microangiopathy and Systemic Complications in Patients with AIDS. Yoko Iwasaki1,2, N. Yamamoto1, T. Kawaguchi1,2, 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. Ninani E. Coyne Kombo1, O. Nkomazana1, S. Forster1, R.A. Adelman1. 1Ophthalmology and Visual Science, Yale University School of Medicine, New Haven, CT; 2University of Botsswana School of Medicine, Gaborone, Botsswana.


6225 — D1085 The Caspase-1-induced Pyroptotic Cell Death Pathway (Pyroptosis) Is Upregulated During Progression Of Experimental Murine Cytomegalovirus (MCMV) Retinitis in Mice With Retinovirus-induced Immunosuppression (MAIDS). Hsin Chien1, E.L. Blalock2, L.R. Bush3, C.J. Alston4, R.D. Dix2. 1Department of Biology, Viral Immunology Center, Georgia State University, Atlanta, GA; 2Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA.

6226 — D1086 Murine Cytomegalovirus (MCMV) Downregulates Interleukin-17 via Increased Interleukin-10 Expression in Mice with Retinovirus-induced Immunosuppression (MAIDS) that are Susceptible to Experimental Cytomegalovirus Retinitis. Emily L. Blalock1, H. Chien1, R.D. Dix2. 1Department of Biology, Viral Immunology Center, Georgia State University, Atlanta, GA; 2Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA.
**530 Autoimmune Ocular Disease**

Moderator: Dale Gregerson


**6230 — D1090** Assessment of Th1, Th2, and Th17 Cells in Birdshot Retinocorioidopathy. Paul Yang, C.S. Foster. Ophthalmology, Massachusetts Eye Research and Surgery Institute, Cambridge, MA.


**6232 — D1092** Clinical Course of Patients with Behcet’s Uveoretinitis that Discontinued Infliximab Therapy. Tatatsuki Kizawaguchi1, Y. Iwasaki1, S. Kanda2, S. Sugita2, M. Mochizuki2. Ophthalmology, Tokyo Metropolitan Komagome Hospital, Tokyo, Japan; Ophthalmology & Visual Science, Tokyo Medical and Dental University, Tokyo, Japan.

**6233 — D1093** Anti-DEC205 Mediated Delivery of Self-Antigens to Dendritic Cell Restores Tolerance in Spontaneous EAU. Koju Kano1, C. Martin-Granados1, C. Babu1, M.E. Wikstrom1, M.A. Degli-Esposti1, R.M. Steinman2, J.V. Forrest3. Ophthalmology, University of Aberdeen, Aberdeen, United Kingdom; Lion Eye Institute, University of Western Australia, Nedlands, Western Australia, Australia; Rockefeller University, New York, NY.

**6234 — D1094** Monocyte-derived Macrophages in EAU Resolution. Inbal Benhar2, A. London2, R.R. Caspers2, M. Schwartz.1 Ophthalmology, Weizmann Institute of Science, Rehovot, Israel; Laboratory 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. Tam1, D. Fatm1, X. Xia2, E. Suarez2, V.L. Perez2, J.L. Vega1. Ophthalmology, Herbert Wertheim College of Medicine-Florida International University, Miami, FL; Ophthalmology, 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. Dewispelaere1, M. Makhoul2, D. Communi2, J-M. Boeynaems2, B. Robaye2, C. Bruyne1, F. Willermain1. Ophthalmology, Univ of Brussels-St Pierre Hosp, Brussels, Belgium; Univ of Brussels-IRIBHM, Brussels, Belgium.


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

**6239 — D1099** DAP-12, a Major Immunomodulator, Either Promotes or Suppresses EAU Development. Barbara P Vistica1, V. Montalvo-Reddin2, G. Shi2, I. Nugent2, L. Quigley2, D.W. McVicar2, I. Gery1. Lab of Immunology, National Eye Institute, Bethesda, MD; Cancer and Inflammation Program, NCI-Frederick, Frederick, MD.

**6240 — D1100** Inhibition of CdK5 Attenuates Experimental Autoimmune Uveitis. Zili Zhang1, X. Wu1, J. Duan1, J.T. Rosenbaum2. Pediatrics, Oregon Health & Science University, Portland, OR; Ophthalmology, 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. *CR

**6242 — D1102** Label-free LC-MS/MS-based Differential Proteome Analysis of Vitreous from Autoimmune Uveitis Cases. Stefanie M. Hauck1, F. Hofmueller1, J. Dietter1,2, M. Blinder1, E. Kremmer1, M.E. Swadzba1, B. Amann1, C.A. Deeg1, M. Ueffing1. Department of Protein Science, Helmholtz Center Munich, Neuherberg, Germany; Department for Veterinary Sciences, Institute of Animal Physiology, Munich, Germany; Centre for Ophthalmology, Institute for Ophthalmic Research, Tuebingen, Germany; Institute for Molecular Immunology, Helmholtz Center Munich, Munich, Germany.

**6243 — D1103** Hsa-mir-let-7f Treatment Suppresses Tlr4 Mediated Mitochondrial Oxidative Stress In Giant Cell Arteritis. Aaro S. Saraswathy. Ophthalmology, Doheny Eye Institute, Los Angeles, CA.

**6244 — D1104** Amelioration of Experimental Autoimmune Uveoretinitis by Inhibition of Toxic AGEs Formation. Zhenyu Dong1,2,3, N. Kitaiichi1,2,3, D. Iwata1,2,3, R. Ando1,2,3, J. Fukuhara1,2,3, A.M. Lennikov1,2,3, A. Kanda1,2,3, K. Noda1,2,3, S. Ono1,2,3, I. Ishida1,2,3. Department of Ophthalmology, Laboratory of Ocular Cell Biology and Visual Science, Department of Ocular Inflammation and Immunology, Hokkaido University Graduate School of Medicine, Sapporo, Japan; Department of Ophthalmology, Health Sciences University of Hokkaido, Sapporo, Japan.


**6246 — D1106** Ocular Immune Pathological Analysis in a Murine Model of Anterior Scleritis. Hiroko Taniguchi1, M. Wang1, A. Nakajima2, J. Horii2. Ophthalmology, Nippon Medical School, Tokyo, Japan; Rheumatology, Tokyo Metropolitan Police Hospital, Tokyo, Japan.

**6247 — D1107** Erythrocyte Sedimentation Rate and C-Reactive Protein in Anterior Uveitis. Justin D. Marsh, B.B. Markowitz. University of South Carolina, Columbia, SC.


**6249 — D1109** Scleritis Associated with Inflammatory Bowel Disease. Matte Sainz de la Maza1, N. Molina1, L.A. Gonzalez-Gonzalez2, P.P. Doctor1, J. Tauber2, S. Foster1. Instituto Clinico Oftalmologia, Hospital Clinico Oftalmologia, Barcelona, Spain; Ophthalmology, Massachusetts Eye Research and Surgery Institution, Cambridge, MA; Ophthalmology, Bay-Wiew Clinic, Mumbai, India; Ophthalmology, Tauber Eye Center, Kansas City, MO; Ophthalmology, Harvard Medical School, Boston, MA.

*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
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


5259 — D1119 In Vitro Activity of ACH-0139586, a Novel Isothiazoloquinazoline, Moxifloxacin and Gatifloxacin Against Clinical Isolates, Including Methicillin and Fluoroquinolone Resistant. Aron Shapiro, L. Belen, A. Whillock, D. Sahme. Ora, Inc., Andover, MA; *Eurosins Medinet, Chantilly, VA. *CR

5260 — D1120 A Novel Antiviral Protein RC28. Naibong Yan, F. Piraino, X. Li. *OPhthalmic Laboratories, Chengdu, China; *Department of Ophthalmology and Visual Sciences, University of Wisconsin Medical School, WI.

5261 — D1121 Clinical utility of Ophthalmic Antimicrobial Susceptibility Measurement Plate. Norihiko Tou, R. Nejima, Y. Ikeda, Y. Horii, K. Sasaki, M. Sakamoto, K. Miyata, Y. Inoue, A. Tawara, H. Fujivara. *OPhthalmic, University of Occup & Environ Health, Kitakyushu-Shi, Japan; *Department of Ophthalmology, Tottori Univ Faculty of Medicine, Yonago, Japan; *OPhthalmic, Toho University Sakura Medical Center, Sakura, Japan; *Ideta Eye Hospital, Kumamoto, Japan; *OPhthalmic, The Research Foundation for Microbial Diseases of Osaka University, Osaka, Japan; *Department of Clinical Laboratory, Tottori University Hospital, Yonago, Japan.

6269 — D1129 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. Weisbrod2, E. Mandelcorn3, C. Schwartz-2, R. Kohli3, K. Eng1, W-C. Lam1, P. Kertes1,2. 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, P

6270 — D1130 Multicenter Comparison Of Loteprednol 0.5% vs Prednisolone Acetate 1% in patients Post-Phacoemulsification with IOL implants. Carlos Busneg1, G. Perez, W. Trattler, J.A. Khell1, B. Henderson1. 1General & Surgical Ophthal, Center for Excellence in EyeCare, Miami, FL; 2For 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, P


6272 — D1132 Retinal Damage in Severe Chemical Burn and the Use of Inflammimab Therapy. Fabiano Cad1,2, E. Paschalidis, C.V. Regattieri1, R. Dana1, C.H. Dohlm11. 1Cornea and Refractive Surgery, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston, MA; 2Ophthalmology, Federal Sao Paulo University, Sao Paulo, Brazil; 3Scheepers Eye Research Institute, Harvard Medical School, Boston, MA.

6273 — D1133 Topical Treatment With A Selective COX-2 Inhibitor Promotes Retinal Ganglion Cell Survival After Optic Nerve Crush. Oliver W. Gramlich, H.D. von Pein1, A. Ziegler1, K. Bitz4, N. Pfeiffer4, F.H. Gruss4. 1Experimental Ophthalmology, 2Department of Neuropathology, University Hospital, Antwerp, Antwerp, Belgium; 3Center for Cell Therapy Into Corneal Neovascularization. 4Ophthalmology, University Hospital, Antwerp, Antwerp, Belgium; 5Department of Ocular Inflammation and Immunology, 6BDepartment of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 7Wakasa Seikatsu Co., Ltd., Kyoto, Japan. *CR

6274 — D1134 Twenty-Eight Day Microbial Preservative Efficacy of Loteprednol Etabonate Ophthalmic Ointment, 0.5%; an Unpreserved Ointment with Low Water Activity. Brian C. David, L.S. Gearinger, J. Klingensmith, IIH. Decory. R&D Microbiology, Bausch & Lomb, Rochester, NY. *CR

6275 — D1135 A Novel Peptide from Adiponectin Suppresses LPS-induced Proinflammatory Signaling in Macrophages by Inducing Interleukin-10 Expression. Huiyi Jin, X. Yang, X. Xu, K. Liu. Shanghai First People’s Hospital, Shanghai, China.

6276 — D1136 Amelioration of Endotoxin-induced Uveitis Treated With An Ikb Kinase Inhibitor, Imd-0354 In Rats. Anton Lennikov1, N. Kitaichi2, K. Noda3, R. Ando4, Z. Dong5, K. Namba4, K. Namba5, S. Ohno6, S. Ishida7. 1Laboratory of Ocular Cell Biology and Visual Science, Department of Ophthalmology, 2Department of Ocular Inflammation and Immunology, 3Hokkaido University, Sapporo, Japan; 4Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 5Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan. *CR

6277 — D1137 Lutein-rich Marigold Extract Induces Gene Expression Of Phase II Antioxidants In The PC12D Neuronal Cells. Seiji Miyake1,2, N. Takahashi1, M. Sasaki1, S. Kobayashi1, K. Tsutbota1, Y. Otsawa1. 1Laboratory of Retinal Cell Biology, 2Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 3Wakasa Seikatsu Co., Ltd., Kyoto, Japan. *CR

6278 — D1138 Ocular and Systemic Pharmacokinetics of Loteprednol Etabonate Gel (0.5%) following Topical Ocular Administration to Rabbits. Shellisse Glogowski, J.W. Prosk. Drug Metabolism & Pharmacokinetics, Global Pharmaceutical R&D, Bausch & Lomb, Rochester, NY. *CR

6279 — D1139 Topical Application Of Inflimixim (Remicade*) In The Treatment Of Corneal Cautiscation. Fabio Bignami1, G. Ferrari2, C. Giacomini1, S. Franchini1, P. Nagata1, K. Maruyama1, K. Yoneda1, T. Yosihara1, K-H. Sonoda1, S. Kinosita1. 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.

6280 — D1140 Identification of The Anti-Inflammatory Annexin-A1 Protein in Tears of Normal Subjects and Association of its Cleaved-Inactive Form with Active Vernal Keratoconjunctivitis Patients. Samia Yazid1,2, S. Van Grassdorff1, K. Wouters1. 1Ophthalmology, 2Statistics, CHematology, DCenter for Cell Therapy and Regenerative Medicine, 1University Hospital, Antwerp, Belgium; 2Center for Cell Therapy and Regenerative Medicine, Antwerp University Hospital, Antwerp, Belgium.

6281 — D1141 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. Tseng2. 1TissueTech and Ocular Surface Center, Miami, FL; 2Ocular Surface Center, Ocular Surface Res & Edu Fdn, Miami, FL. *CR

6282 — D1142 Genetically Engineered IL-30 (IL27p28) Suppresses Experimental Autoimmune Uveitis. Ren-Xi Wang, C-Y. Yu, R. Mahdi, C. Egwuagu. Laboratory of Immunology, NEI, Bethesda, MD.


6284 — D1144 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 — D1146 Clinical Experience With Sustained-Release Intravitreal Corticosteroid Implants: A Comparison Between The Fluocinolone Acetoneide (Retisert) And Dexamethasone (Ozurdex) Implants In Uveitis. Cheryl A. Arcinue1, C. Foster1, O. Cerone1, L. Almulki. 1Uveitis and Ocular Immunology, Massachusetts Eye Research & Surgery Institute, Cambridge, MA; 2Ophthalmology, Massachusetts Eye and Research Inst, Cambridge, MA.

6287 — D1147 Cytokine Levels In The Vitreous Fluid Of Patients With Ocular Sarcoidosis And Patients With Diabetic Retinopathy, Kenji Nagata1, K. Maruyama1, K. Yoneda1, T. Yosihara1, K-H. Sonoda1, S. Kinosita1. 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 — D1148 Human Tears Reveal Insights Into Corneal Neovascularization. Nadia Zakaria1, S. Van Grassdorff1, W. Kouters1, J. Rozema1, N. Cools4, V. Van Tendeloo5, Z. Berneman1, M-J. Tassignon1. 1Ophthalmology, 2Statistics, 3Hematology, 4Center for Cell Therapy and Regenerative Medicine, 1University Hospital, Antwerp, Belgium; 2Center for Cell Therapy and Regenerative Medicine, Antwerp University Hospital, Antwerp, Belgium.

6289 — D1149 Errors In Measuring VEGF Concentrations In The Presence Of Anti-VEGF Antibodies By Using ELISA. Hidenori Takahashi1, Y. Fajino1, Y. Yang1. 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 — 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’Bryhim. 1Ophthalmology, Kansas University Medical Center, Prairie Village, KS; 2Ophthalmology, Kansas University Medical Center, Kansas City, KS; 3Pediatric & 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. 1Molecular & 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. Caldwell5. 1Vascular Biology Center, 2Physiology, Univ of Kansas Medical Center, Kansas City, KS; 3Ophthalmology; Molecular and Integrative Physiology, Univ of Kansas Medical Center, Kansas City, KS; 4College of Health and Science, University of Houston, Houston, TX; 5Department of Biomedical Engineering, Johns Hopkins University, Baltimore, MD; 6The Wilmer Eye Institute at Johns Hopkins, Baltimore, MD; 7Department of Ophthalmology, Johns Hopkins University, Baltimore, MD.

6297 — 12:15 Progressive Central Photoreceptor Damages and Retinal Pigment Epithelium Abnormalities in Oxygen Induced Retinopathy. Zhou Shao1, J. Rivera2, T.E. Zhou2, P. Sapieha1, P. Lachapelle, S. Chemtob1. 1Pediatrics and Therapeutics, McGill University, Montreal, QC, Canada; 2Departments of Pediatrics and Pharmacology, Hopital Ste Justine, Research Center, Montreal, QC, Canada; 3Pediatrics & 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. Mavambo-Tagne3, S. Favret1, N. Sitras2, N. Tetrault-Adame1, A. Cerami1, E. Lapalme1, F. Rezende2, T. Kennedy3, P. Sapieha1. 1Research Center, Maisonneuve Rosemont Hospital, Montreal, QC, Canada; 2Montreal Neurological Institute, McGill University Montreal, QC, Canada.

6300 — 11:15 Decreasing Peripheral Hypoesthesia With Distance-centre Relatively-plus Powered Periphery Contact Lenses Reduced The Rate Of Progress Of Myopia: A 5 Year Vision Crc Study. Brien Holden Vision Institute, Sydney, Australia; 2Vision Cooperative Research Centre, Sydney, Australia; 3College of Health and Science, University of Western Sydney, Sydney, Australia; 4College of Optometry, University of Houston, Houston, TX; 5Zhongshan Ophthalmic Center, Guangzhou, China. CR, CR, CR.

6301 — 11:30 Impact of a Novel Silicone Hydrogel Material on Meibomian Gland Structure. Jason J. Nichols1, K.E. Osborn2, T. Henderson3. 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. Acharya1, E. Ng2, L. Tong3. 1Ocular Surface Research Group, Singapore Eye Research Institute, Singapore, Singapore; 2Department of Ophthalmology and Biomedical Engineering, Nanyang Technological University, Singapore, Singapore; 3Cornea and External Eye Disease Service, Singapore National Eye Centre, Singapore, Singapore.

6303 — 12:00 Keratoconus 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. Xiaoma Calderon-Colon1, Z. Xiu1, Q. Guo2, J.E. Tiffany3, J.P. Maranchi4, R.L. McCauly5, O. Schein1, J.H. Elieff6, M.M. Tretler1. 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; 5Department of Ophthalmology, Johns Hopkins University, Baltimore, MD.


6306 — 12:45 A Novel Method to Generate Precut Tissue for Descemet Membrane Endothelial Keratoplasty (DMEK). Bjorn O. Bachmann1, U. Schlöter-Schrehardt1, M. Börgel2, F.E. Kruse1. 1Ophthalmology, Universityhospital Erlangen, Erlangen, Germany; 2Deutsche Gesellschaft für Gewebetransplantation (DGFG), Hannover, Germany.

Room 114
Thursday, May 10, 2012, 11:15 AM-1:00 PM

534 Ocular Immune Responses

Moderators: Holly L. Rosenzweig and Paul G. McNemar

6307 — 11:15 The Role of Interleukin-17A in a Spontaneous Model of Autoimmune Uveitis Elicited by Retina-specific T Cells. Benjamin C. Chao1,2, R. Horai1, J. Chen1, C. Zárate-Bladés2, R. Villasmil1, C-C. Chan1, R.R. Caspi1. 1Laboratory of Immunology, 2Flow Cytometry Core, National Eye Institute - NIH, Bethesda, MD; 3Howard Hughes Medical Institute, Bethesda, MD.

6308 — 11:30 Abundant IL-17 T Cells Induced In Immunized C57Bl/6 Mice Are Not Autoreactive. Deming Sun1, D. Liang2, A. Zuo3, H. Shao2, H.J. Kaplan1, H. Nian4. 1DVRC-411, Doheny Eye Institute, Los Angeles, CA; 2Ophthalm & Visual Sciences, University of Louisville, Louisville, KY; 3Ophthalm & Vis Science, University of Louisville, Louisville, KY.

6310 — 12:00 Thrombospondin Receptor CD47 On T Cells And Not On The Surface Of Antigen Presenting Cells Is Necessary For Treg Induction Associated With Ocular Immune Privilege. Fayaz Mir B. Turpie, S. Masli. Harvard Medical School, Schepens Eye Research Inst, Boston, MA.

6311 — 12:15 ACADET 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. Xiangting Wang1, M.M. Jablonski1, R.W. Williams1, T.S. Rex1, E. Geisert1, J. Templeton1, J.M. Nickerson2, X. Retina Activated by Optic Nerve Crush. Rex Moderator.

535 Biochemistry & Molecular Biology

537 New Directions for Bifocality, Multifocality and Restoration of Accommodation

Thermoreceptors in Animals

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

Visual Psychophysics & Physiological Optics

537 New Directions for Bifocality, Multifocality and Restoration of Accommodation

Modulators: Michael A Walter and Tonya S Reed


6315 — 11:30 Hmg-b1 Induces Apoptosis In Retinal Ganglion Cells And Intraocular Inflammation By Activation Of Tlr4 And Cytokine Release. Maurice Schallenberg1, H. Melkonyan1, S. Thonas2. ‘Department of Ophthalmology, University Hospital Essen, Essen, Germany; 2Institute of Experimental Ophthalmology, University of Muenster, Muenster, Germany.

6316 — 11:45 Lipidomics of glucomatous 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 Olfactomedin Domain Of Myocilin. Raquel L. Lieberman1, S.D. Orwig1, C.W. Perry2, L.Y. Kim2, K.C. Turnage2, R. Zhang2, D. Vollrath3, I. Schmidt-Krey2. ‘School 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. Doudava1, M. Cowman2, J. Liebmann3, C. Tello1, C. Teng1, R. Ritch4, A. Rostagno5. ‘Pathology, 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. Lazcko1, K. Molnarne Szaster1, R. Ritch1. ‘John A. Burns School of Medicine, University of 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 Ito1, F. Berry1, M. Walter1. ‘Medical Genetics, Surgery, 1Univ of Alberta, Edmonton, AB, Canada.

6321 — 12:15 Potential Direct Target Gene Of The FOXC1 Transcription Factor. Jorge Ghio1, I. Doudava1, M. Cowman2, J. Liebmann3, C. Tello1, C. Teng1, R. Ritch4, A. Rostagno5. ‘Pathology, 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.


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. Atkinson1, D-Q. Zhang1. ‘Eye 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. Whitney1,2, M. Raven1,2, B.E. Reese1,2, A. Molecular, Cellular, and Developmental Biology, 1Neuroscience Research Institute, 2Psychological and Brain Sciences, 1University 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

Modulators: Jim Schwiegerling and Sanjeev Kathurirangan

6328 — 11:15 Optimizing Modified Monovision to Improve Binocular Through-Focus Visual Performance. Leen Zheleznyak1, R. Sabesan1, S. MacRae3, G. Yoon1. ‘The Institute of Optics, 2Flaum Eye Institute, 3University of Rochester, Rochester, Rochester, NY.*CR

6329 — 11:30 Depth Of Focus With Induced Coma At Different Orientations. Christina Schwarz1, C. Canovas1, S. Manzanera1, P.M. Prieto1, H.A. Weeber2, P.A. Piers2, P. Artal3. ‘Laboratorio de Optica, Universidad de Murcia, Murcia, Spain; 2Research, Abbott Medical Optics, Groningen, The Netherlands.*CR

6330 — 11:45 Visual Outcomes Following Bilateral Implantation of a Trifocal Intraocular Lens. Sunil Shah1, A.L. Sheppard2, U. Bhatt1, J.S. Wolfsohn1. ‘Midland Eye Institute, Birmingham, United Kingdom; 2School of Life and Health Sciences, Aston University, Birmingham, United Kingdom.*CR

6331 — 12:00 Curvature Changing Accommodating IOLs. Jim Schwiegerling, N. Savidis, S. McCaffery. Optical Sciences, University of Arizona, Tucson, AZ.*CR


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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. Cheung1,2, W. Tay3, M. Ikram1,4, E. Tai5, T.Y. Wong1. *Singapore Eye Research Institute, Singapore, Singapore; *Department of Ophthalmology, *Department of Medicine, *Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore.


6345 — 12:00 RAAB+DR - Rapid Assessment of Blindness Including Diabetes: Results of a New Population-based Survey Method in Chiapas (Mexico), Cape Town (South Africa), and Taif (Saudi Arabia). David B. Yorston1,2, J.D. Stein. 1Ophthalmology, University of Minnesota, Minneapolis, MN; 2Ophthalmology, Boston University School of Medicine, Boston, MA; 3College of Optometry, University of Houston, Houston, TX; *Ophthalmology, University of Washington, Seattle, WA.

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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.

6349 — 11:15 Regional Variations In The Rate Of Laser Trabeculoplasty In The Medicare Population. Henry D. Jampel1,2, D.S. Cassard2, D.S. Friedman3, H.A. Quigley4, E.W. Gower5. 1Glaucoma Center of Excellence, *Dana Center for Preventive Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD; 2Epidemiology and Prevention, Wake Forest School of Medicine, Winston-Salem, North Carolina, MD.

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*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


700 Thursday – Papers – 6350 – 6362

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

541 Retinal Detachment III

Moderators: Stanislao Rizzo and Howard F. Fine


636 — A6 Relationship of Structural and Functional Asymmetry to Sleep Position in Primary Open Angle Glaucoma. Eberechi Nwogu2, S. Thomas2, C. Hamill1, J. Marcus3, N.A. Loewen4. 1Ophthalmology, 2Ophthalmology and Visual Science, 3Ophthalmology & Visual Science, 4Yale University School of Medicine, New Haven, CT; 2Ophthalmology, Yale School of Medicine, New Haven, CT.

636 — A7 Glaucoma Patient Day: Involving Patients, Improving Care, Prioritizing Research. Ananth C. Viswanathan4, R. Mathew1, S. Gillani5, L. Ramskold1, C. Bunce2, N. Okhravi3. 1Glaucoma Service, 2NIHR Biomedical Research Centre for Ophthalmology, Moorfields Eye Hospital NHS Foundation Trust and UCL Institute of Ophthalmology, London, United Kingdom; 3Glaucoma Service, 4Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom; 5Ophthalmology Clinic, University of Illinois at Chicago, Chicago, IL.


637 — A9 Profile of Patients Assisted During the 2011 World Glaucoma Week in Araguari - Minas Gerais - Brazil. fabia f. nogueira1, G.E. Carlos1, D.R. Martins1, G.R. Cunha1, M.S. Arcieri1, N.B. Ramos1, P.E. Rosa1, R.S. Arcieri1, R.L. Pereira1, E.S. Arcieri1, 1School of Medicine, Presidente Antonio Carlos University (UNIPAC), Araguari, Brazil; 2School of Medicine of Ribeirão Preto, University of São Paulo (USP), Ribeirão Preto, Brazil; 3Ophthalmology, University of Campinas (UNICAMP), Campinas, Brazil.

637 — A10 Distribution of Adherence to Intraocular Pressure Lowering Agents among Glaucoma Patient in India. Jason P. Jones1A, D.S. Fong1B, E.N. Feuer1A, 1All India Institute of Medical Sciences, New Delhi, India; 2Devers Eye Institute, Portland, OR.


637 — A12 Refractive Status In Patients With Narrow Angles. Sarah M. Simpson, D.C. Warder, A. Moore, I. Irrcher; D. Jnapriya. Department of Ophthalmology, Queen’s University, Kingston, ON, Canada.

637 — A13 Ordinal Measurement Error Model for Assessing Agreement Among Raters for Glaucoma Progression. Yun Ling2,3, R.A. Bilionick2,3, H. Ishikawa1,2, G. Wollstein1,3, J.S. Schuman1,2. 1UPMC Eye Center, Eye & Ear Institute, Ophthalmology and Visual Science Research Center, Dept. Ophthalmology, U. Pittsburgh School of Medicine, Pittsburgh, PA; 2Dept. Biostatistics, U. Pittsburgh Graduate School of Public Health, Pittsburgh, PA; 3Dept. Bioengineering, Swanson School of Engineering, U. Pittsburgh, Pittsburgh, PA. 4CR

637 — A14 Intraocular Pressure and Central Corneal Thickness in a Multi-Ethnic Asian Population: The Singapore Epidemiology of Eye Disease (SEED) Study. Ching-Yu Cheng1,2, T. Aung3,4, Y. Zheng1, X. Li1, A.R. Ammar5, M. Chev1, B. Muni2, S-M. Saw1A, T.Y. Wong3,4, SEED Study Group. 1Department of Ophthalmology, 2Saw Swee Hock School of Public Health, 3National University of Singapore, Singapore, Singapore; 4Singapore Eye Research Institute, Singapore, Singapore.

637 — A15 Evaluation Of The Impact Of Topical Medical Therapy on Quality Of Life In Newly Diagnosed Glaucoma Patients Using The Indian Vision Function Questionnaire (VFQ33). Tumy Dada1, V. Arora1, S.K. Gupta1, V. Sreenivas1, P. Vashist1, T. Agarwal3, A. Pande4. 1RP Centre for Ophthalmic Sciences, 2Centre for Community Medicine, 3All India Institute of Medical Sciences, New Delhi, India.

637 — A16 Risk Factors for Four-year Incidence of Open-angle Glaucoma: The Los Angeles Latino Eye Study. Xuejuan Jiang1, S. Wu1, M. Torres1, P.S. Azeni2, B.A. Francis3, V. Chopra4, B.B. Nguyen5, R. Varma6, Los Angeles Latino Eye Study Group. 1Ophthalmology, Doheny Eye Institute, Univ. of Southern California, Los Angeles, CA; 2Preventive Medicine, USC Keck School of Medicine, Los Angeles, CA.

637 — A17 Undiagnosed And Overdiagnosed Glaucoma In The United States. Mark W. Swanson. Optometry, Univ of Alabama at Birmingham, Birmingham, AL.

638 — A18 Prevalence Of Glaucomatous Optic Neuropathy In A Telemedicine Population. Hana L. Takasagawa1, C. Sheppler2, C. VanAlstine3, S.K. Gardiner1, S.L. Mansberger1. 1Discoveries In Sight Laboratories, 2Devers Eye Institute, Portland, OR.

Thursday – Posters – 6382 – 6404


6383 — A21 The Observed Co-prevalence Of Open-angled 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.


6385 — A23 The Association Between Compliance with Recommended Follow-up and Glaucomatous Disease Severity in a County Hospital Population. Yoshio Murakami1, C. Ueng1, E. Zhang1, T. Affaro1, M.J. Seider2, K. Singh2, S.C. Lin2. 1Ophthalmology, Stanford University, Stanford, CA; 2Ophthalmology, University of California, San Francisco, San Francisco, CA. *CR

6386 — A24 Systemic Illnesses In Glaucoma: A Possible Link Between Glaucoma And Breast Cancer? Felise May Barte1A, S. Muhanna1B, B. Adams-Huet1B, K. Kooner1B. 1Ophthalmology, 2Clinical Sciences, 1University 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 Yong1, H.M. Hoon1, D.T. Quek1, V.W. Wang1, E.L. Lamoureux1, P.T. Aung1, T. Aung2. 1Ophthalmology, Singapore National Eye Centre, Singapore; 2Statistics(Admin), Singapore Eye Research Inst, Singapore; 3Center for Health Services Research, Singapore Health Services, Singapore; 4Ophthalmology, University of Melbourne, Melbourne, Australia; 5Singapore Eye Research Institute, Singapore National Eye Centre, Singapore; 6Glaucoma, 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 Kuyk1, A. Smith2, S. Kumar2. 1TASC, Inc, Ft Sam Houston, TX; 2Air Force Research Laboratory, Ft Sam Houston, TX.


6396 — A86 Color Discrimination Task Using Pseudoisochromatic Stimulus; Luminance Noise Variation Provides Better Sensitivity Than Noise Mean Luminance. Bruno D. Gomes1, T.L. Carmichael1, M.M. Jacob1, E.C. Lacerda1, G.S. Souza14,18, M.E. Fitzgerald1, L.C. Silveira10,11. 1Instituto de Ciencias Biologicas, 2Nucleo de Medicina Tropical, 3Universidade Federal do Para, Belem, Brazil; 4Natural Science, 5Biology, 6Christian Brothers University, Memphis, TN; 7Nut & Neurobiol & Ophthalmol, UTHSC, Memphis, TN.

6397 — A87 Magno- And Dorsal Stream Processing Decline Slower Than Parvocellular Performance In Normal Aging, Maria F. Loureiro1, C. Mateus2, B. Oliveira3, R. Lemos4, A. Reis5, M. Castelo-Branco1. 1Visual Neuroscience, IBIL/University of Coimbra, Coimbra, Portugal; 2Ophthalmology, University Hospital of Coimbra, Coimbra, Portugal.

6398 — A88 Binocular Enhancement of Color Contrast Sensitivity. Jeff C. Rabin1, B. Stewart1, V. Wong1, J. Boster1, M. Ruelle1, T. Tran1, J. Gooch1, S. Wright1. 1Optometry, UWF Rosenberg School of Optometry, San Antonio, TX; 2Ophthalmology, USAF School Aerospace Medicine, Dayton, OH.


6400 — A90 Cone Isolating Electrorhodinograms In Individuals With A Mutant Opsin Allele Associated With Cone Dystrophy. James A. Kuchenbecker1, S.H. Greenwald2, J. Carroll3. 1Ophthalmology, 2Medical College of Wisconsin, Milwaukee, WI; 3Chicago Lighthouse for People Who Are Blind or Visually Impaired, Chicago, IL; 4Ophthalmology and Vision Sciences, University of Illinois - Chicago, Chicago, IL; 5The 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. Bonci1, M. Neitz1, J. Neitz1, M. Gaultieri2, M.T. Barbini, B.L. Costa, L.L. Silveira1, D.F. Ventura1. 1Experimental Psychology, 2Medical College of Wisconsin, Milwaukee, WI; 3Chicago Lighthouse for People Who Are Blind or Visually Impaired, Chicago, IL; 4Ophthalmology and Vision Sciences, University of Illinois - Chicago, Chicago, IL; 5The Pangere Center for Hereditary Retinal Diseases, Chicago, IL.


6404 — A94 A New Color Visual Function Test to Evaluate the Aging Changes in Normal Eyes. Kazuo Ichikawa1, S. Yokoyama1, Y. Tanaka2, H. Nakamura1, S. Tanabe3, K. Tanaka2, R. Horai3, Y. Kato1. 1Ophthalmology, Social Insurance Chukyo Hosp, Nagoya Aichi, Japan; 2Faculty of Engineering, Shinshu University, Nagano, Japan; 3Chukyo Eye Clinic, Nagoya Aichi, Japan.

*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

389
1Faculty of Engineering, Shinshu University, Nagano, Japan; 
2Ophthalmology, Social Insurance Chukyo Hosp, Nagoya, Japan; 
3Ophthalmology, Social Insurance Chukyo Hosp, Nagoya Aichi, Japan; 
4Ophthalmology, Social Insurance Chukyo Hosp., Nagoya Aichi, Japan; 
5Chukyo Eye Clinic, Nagoya Aichi, Japan.

6406 — A96 Color Discrimination And Categorization Differences Between Male And Female. 
Marcelo F. Costa, S.M. Moreira, D.F. Ventura. Psicologia Experimental, Univ of Sao Paulo, Sao Paulo, Brazil.

6407 — A97 The Relationship between Macular Pigment Optical Density and Retinal Straylight. 
Raymond O. Beirne. Vision Science Research Group, University of Ulster, Coleraine, United Kingdom.

6408 — A98 Does Color Vision Impairment Correlate with Neuropsychological Losses in Visual Space and Object Perception Tests? 
1Department of Psychology, 
2Psychiatry, 
3Neurology, 
4University de Sao Paulo, Sao Paulo, Brazil; 
5Experimental Psychology, University of Sao Paulo, Sao Paulo, Brazil.

Hall B/C  A302-A337 
Thursday, May 10, 2012, 11:15 AM-1:00 PM

Retinal Cell Biology

544 Retinal Degeneration and Neuroprotection

Moderators: Patrice E Fort and Jorgelina M Calandra

6409 — A302 Activation of the Aldosterone/Mineralocorticoid Receptor System and Protective Effects of Mineralocorticoid Antagonism in Retinal Ischemia- Reperfusion Injury. 
Kazuyuki Hirooka, Y. Liu, T. Fujita, F. Shiraga. Ophthalmology, Kagawa Univ Faculty of Medicine, Kita-gun, Japan; Ophthalmology, The Fourth Affiliated Hospital of China Medical University, Shenyang, China.

1Ophthalmology, University of the Basque Country, Getxo, Vizcaya, Spain; 
2Cicencias Biomédicas, Universidad CEU Cardenal Herrera, Valencia, Spain; 
3Fundacion Ophthalmologica del Mediterraneo, Valencia, Spain; 
4Facultad de Medicina, Universidad Católica de Valencia ‘San Vicente Mártir’, Valencia, Spain.

6411 — A304 Neuroprotective Effects Of Erythropoietin In Mouse Models With Retinal Degeneration. 
Jasmin Balmer1, M. Tschopp, M. Menke2, M. Gassmann3, S. Wolff, V. Enzmann. 
1Ophthalmology, University of Bern, Bern, Switzerland; 
2Veterinary Physiology, University of Zurich, Zurich, Switzerland.

6412 — A305 Morphologic Differences And Apoptotic Rate In An Experimental Model Of Retinal Detachment After Systemic Submission Of A Dhea-analogue. 
Pavlina A. Tsokas1, I. Charalampopoulos2, A. Gravanis2, M.K. Tsilimbaris2. 
1Neurology & Sense Organs, 
2Pharmacology, 
3University of Crete, Heraklion, Crete, Greece; 
4Ophthalmology-Research Act, University of Crete, Heraklion, Greece.

6413 — A306 The Effect Of Ketone Bodies On The Synthesis Of Kynurenic Acid In Bovine Retinal Slices. 
Tomasz Zarnowski1, M. Tulidowicz1, T. Choragiewicz1, R. Robert1, T. Kocki1. 
1Ophthalmology, 2Dept of Ophthalmology, 3Toxicology, Medical University Lublin, Lublin, Poland.

6414 — A307 Neuroprotective Effects Of Sirna, Targeted Caspase9, And Atelocollagen Complex On Rat Retinal Damage Induced By Transient Ischemic Injury. 
Shinichiro Ishikawa, A. Hirata, J. Nakabayashi, R. Iwakiri, S. Okinami. 1Sagai Univ Faculty of Medicine, Saga, Japan; 2Sage Memorial Hospital, Saga, Japan.

6415 — A308 Subretinal Electrical Stimulation Preserves Visual Acuity In Dystrophic RCS Rats. 
Vincent T. Ciavatta1, M.H. Aung2, T.S. Obertone2, J.K. You1, M.T. Pardue1,2,4. 
1Rehab R&D Center of Excellence, Atlanta VA Medical Center, Decatur, GA; 
2Ophthalmology, 3Neuroscience, Emory University, Atlanta, GA.

6416 — A309 Neuroprotection And Neurotoxicity Of The Sustained Intracocular Delivery Of Gdfn In Retinal Degeneration. 
1Ophthalmology, University of Miami, Miami, FL; 
2Bascom Palmer Eye Institute, 
3Ocular Biology and Therapeutics, 
4Biological Science and Program in Neuroscience, Florida State University, Tallahassee, FL.

6417 — A310 Increased Susceptibility to Retinal Stress in Mice Lacking Sigma Receptor 1 (σR1). 
Yonju Ha1, A. Saul3, C. Williams3, E. Zorrilla2, V. Ganapathy1, S.B. Smith1,2. 
1(σR1). 
2Ophthalmology, 3Istituto Superiore Di Sanita, Rome, Italy; 
4Fondazione GB Bietti, Rome, Italy.

6418 — A311 Arginase2 Deficiency Reduces Hyperoxia-induced Retinal Neurodegeneration through the Regulation of Polyamine Metabolism. 
1Vascular Biology Center, 
2Department of Pharmacology and Toxicology, 
3Georgia Health Science University, Augusta, GA; 
4Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX; 
5VA Medical Center, Augusta, GA.

6419 — A312 The Protective Effects Of Bromindone For ARPE-19 And Müller Cells Exposed To Hydroquinone In Vitro. 
Mohamed Tarek1, C.A. Ramirez, M. Chwa, G. Limb, B.D. Kuppermann, C.M. Kenney. 
1Ophthalmology, 
2Ghinw Herbert Eye Institute, Irvine, CA; 
3Ophthalmology, University of California Irvine, Irvine, CA; 
4Ocular Biology and Therapeutics, UCL Institute of Ophthalmology, London, United Kingdom; 
5Ghinw Herbert Eye Inst Dept Ophthalm, University of California Irvine, Irvine, CA; 
6Ophthalmology, Uniof California-Irvine, Irvine, CA.

6420 — A313 Genetic Analysis of Photoreceptor Degeneration-induced Retinal Remodeling. 
James M. Fadool, K. Alvarez-Delfin, C.J. Saade. Biological Science and Program in Neuroscience, Florida State University, Tallahassee, FL.

6421 — A314 Recombinant RdcVF Protein Promotes Cone Photoreceptor Survival in S334ter Rat. 
Jiwen Li, L. Luo, X. Xia, Z. Wang, P. Chen, R. Wen. Bascom Palmer Eye Institute, University of Miami, Miami, FL.

6422 — A315 Quantum Dots As Neuroprotective Factor In A Model Of Retinal Photoreceptor Degeneration. 
Raul Veléz-Montoya1,2, N. Mandava1, C.R. Stool1, J.L. Olsho1. 
1Ophthalmology, University of Colorado Health and Science Center, Aurora, CO; 
2Rocky Mountain Lions Eye Institute, Aurora, CO; 
3Mechanical Engineering, University of Colorado Boulder, Boulder, CO.*CR

6423 — A316 Up-regulation Of Soluble Amyloid Beta And Down-regulation Of Soluble RAGE In The Vitreous Of Age-related Macular Degeneration Patients. 
Frances Fan1, A. Montemar1, S. Rossi1, G. Parisi1, F. Lamothe1,2, G. Ripandelli1, M. Bartoli1,2. 
1Ophthalmology, Pharmacology and Toxicology, 
2Georgia Health Sciences University, Augusta, GA; 
3Experimental Medicine and Pathology, University of Rome La Sapienza, Rome, Italy; 
4Hematology and Oncology, Istituto Superiore Di Sanita, Rome, Italy; 
5Fondazione GB Bietti, Rome, Italy.

6424 — A317 Neuroprotectin D1 Is A Transcriptional Modulator Of The Birc3 Gene That Encodes An Inhibitor Of Apoptosis Protein In Retinal Pigment Epithelial Cells. 
Avram Asatryan, J.M. Calandra, N.G. Bazan. 
Neuroscience, LSUHSC, New Orleans, LA.

6426 — A319 DHA Restores HNE And PDEF By Inhibiting Oxidative Damage In RPE At High Glucose Levels. Emma Arndt1, S. Johnsen-Soriano1, M. Miranda2, A. Navea1, J. Romero1,2, FOM, Valencia, Spain; 3Dpto. Ciencias Biomédicas, UCH-CEU, Moncada, Spain; 4Facultad de Medicina, UCV, Valencia, Spain.

6427 — A320 Transferrin Delivery In The Eye Protects Photoreceptors From Light-Induced Retinal Degeneration. Emilie Picard1,2, M. Berdugo1,2, M. El Sanharawi1, J-C. Jeanny1,2, Y. Courtois1,2, F.F. Behar-Cohen1. UMR 872 team 17, INSERM, Paris, France; 2Ophthalmology, Université Pierre et Marie Curie et Université Descartes, Paris, France; 3Ophthalmology, Hotel Dieu de Paris, Université Paris Descartes. INSERM UMR872, Paris, France.

6428 — A321 Iron Chelation Protects Against Murine Retinal Degeneration Induced Through Diverse Mechanisms. Joshua L. Dutraief1, M. Hadielmatovetic1, D. Song1, Y. Song1,2, Y. Li1, S. Grieco1,2, S. Chu1, J. Connelly1, M. Spino1. EM Kirby Ctr/Ophthalmology, 1Dept of Ophthalmology, 2University of Pennsylvania, Philadelphia, PA; 3EM Kirby Ctr, Scheie Eye Institute Univ of Penn, Philadelphia, PA; 4Dept of Ophthalmology, Peking Union Med College Hosp, Beijing, China; 5ApoPharma, Inc., Toronto, ON, Canada. *CR

6429 — A322 Iron Accumulation In Animal Models Of Genetic Retinal Degeneration: Human Transferrin As A Protector For Photoreceptors. Jean-Claude P. Jeanny1,2, L. Jonet1, L. Courtois1,2, M-H. Vesvres1, J. Burke1, S. Whitcup1. 1Physiology, University of Regensburg, Regensburg, Germany; 2Ophthalmology, Catholic University, Glendale, AZ.

6430 — A323 TUDCA Prevents Microglia Activation In The P23H Rat Retina. Laura Fernandez-Sanchez1, A. Nouettes1, I. Pinilla1, J. Martin-Nieto1, P. Lasi1, N. Cuencar1. 1Physiology, Genetics & Microbiology, University of Alicante, Alicante, Spain; 2Ophthalmology, University Hospital Lozano Blesa. Aragon Health Sciences Institute, Zaragoza, Spain.

6431 — A324 Gentamicin-Induced Retinal Degeneration in Dutch Belted Rabbits. Omar Delgado1, J. Demirs1, S. Louie1, M. Crowley1, S. Poor1, S. Hanks1, C. Bigelow1, Y. Zhang1, B. Jaffee1, S-M. Liao1. Ophthalmology, Novartis, Cambridge, MA.

6432 — A325 Fixation Stability and Central Retinal Sensitivity after Intravitreal Autologous Bone-Marrow Stem Cells for Hereditary Retinal Dystrophy. Rubens C. Siqueira1,2, A. Messias1,2, J.C. Voltarelli3, K.V. Messias1, R.S. Aciervi1, R. Jorge21. 1Retina, 2Bone Marrow Transplantation, 3Sao Paulo University, Ribeirao Preto, Brazil. L

6433 — A326 Retinal Sheet Transplants Benefit Rats with Rod Degeneration, Revealed By Optokinetic Testing And Mangeneese-Enhanced MRI (MEMRI). Robert B. Aramunt1,2, M.J. Seiler1, D.P. Bissig1, R. Roberts1, W. Qi1, Z. Chen1, S. Rana2, J. Almodovar3,4, H.S. Keirstead5,6, B.A. Berkowitz2,7,8, M. Miranda2, A. Navea1, J. Romero1,3. 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.

6434 — A327 A Submicrovolt Focal ERG Technique for Evaluating Macular Function in Stargardt/FF Dystrophy: Clinical Assessment of Test Reliability. Benedetto Falsini1, M. Piccardi1, D. Maragoni1, A. Minnella1, M. Bertelli1, S. Bisti1, A. Fadda2. 1Ophthalmology, Catholic University, Rome, Italy; 2Ophthalmology, MAGI Laboratory for molecular genetics in rare diseases, Rovereto, Trento, 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, C. Ghosh1, J. Burke2, S. Whitcup1,2. 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. Myrann Mirza1, C. Volz1, L. Woltering1, C. Schuller1, H. Jägle2, T. Langmann1. 1Institute of Human Genetics, 2Institute of Ophthalmology, University of Regensburg, Regensburg, Germany.

6438 — A331 Modeling Photoreceptor Interactions in the Presence of Retinitis Pigmentosa. Erika T. Camacho1, S. Whitcup1, R. Ayyagari4, Mary E. Rayborn1, V.L. Bonilha1, B.A. Bell1, M.J. Marino1, V.P. Rauer5, J.C. Bight6, E.J. Traboulssi1, S.A. Hagstrom7, J.G. Hollyfield8,9,10, M. Crowley, S. Poor, S-M. Delgado, J. Demirs, S. Louie, M. Traboulssi, S.A. Hagstrom, J.G. Hollyfield. 1Ophthalmic Research, Cole Eye Institute, Cleveland Clinical, Cleveland, OH; 2Casey Eye Institute Molecular Diagnostics Laboratory, Oregon Health Science University, Portland, OR.
545 Retinitis Pigmentosa III

**Moderator: Hendrik P Scholl**


4646 — A372 Role of ER Stress-Induced Caspase6 in Retinal Degeneration of T17M Rhodopsin Transgenic Mice. Shreyasi Choudhury, M.S. Gorbatyuk. Cell Biology And Anatomy, University of North Texas Health Science Center, Fort Worth, TX.

4647 — A373 Additional Neuroprotective Effects Of Proinsulin On Vision And Retinal Structure In The Rd10 Mouse Model Of Retinitis Pigmentosa. Enrique J. de la Rosa1, N. Forns2, M. Marchena1, A. Hernandez-Pinto1, R. Steel1, Ophthamology, 1University of Florida, Gainesville, FL; 2Department of Veterinary Anatomy, 1Justus-Liebig-University Giessen, Giessen, Germany.

4648 — A374 Long-Term Rescue with Gene Therapy in a Mouse Model of Autosomal Dominant Retinitis Pigmentosa (ADRP). Hoa Yuu Mao1,2, M.S. Gorbatyuk1, B. Rossmiller2, W.W. Hauswirth2, A.S. Lewin2. Molecular Genetics & Microbiology, 1University of Florida, Gainesville, FL; 2Department of Molecular Genetics and Microbiology, University of Florida, Gainesville, FL. *CR

4649 — A375 Mpp3 is Required for Maintenance of Adherens Junctions in the Retina during Light Exposure. Jacobus J. Dudok1, A. Sanz Sanz1, D. Lundy2, V. Sothilingam1, M. Garcia-Garrido1, N. Tanimoto2, J. Klooister1, J. Janritch1, M. Seeliger1, J. Wijnholds1. Neumrological Genetics, Netherlands Inst for Neurosci, Amsterdam, The Netherlands; 2Division of Ocular Degeneration, Ctr Opthal Resrch, Tuebingen, Germany; 3Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX.

4650 — A376 Altered Fractalike Homeostasis In Rdl10 Degererating Mouse Retina. Marina Ziegler1, C. Schubert1, P. Uhrin1, P.K. Ahnet1. Neurophysiology and Neuropharmacology, 1Vascular Biology and Thrombosis Research, 1Medical University of Vienna, Vienna, Austria.

4651 — A377 Characterization of a humanized Eye-Mouse-Model for X-linked Retinitis Pigmentosa caused by a point mutation in the Rpgpr gene. Jutta U. Schlegel1, D. Rolf1, B. Bergmann2, B. Lorenz2, K. Stieger2. Department of Ophthalmology, 1Department of Veterinary Anatomy, 1Justus-Liebig-University Giessen, Giessen, Germany.

4652 — A378 A Knock-in Mouse Model of Human Rpgpr G173R Mutation Exhibits Retinal Dysfunction and Reduced Rpgpr Protein Levels. Zhijian Wu, S. Mookherjee, S. Hiriyanna, R. Rachel, T. Li, L. Dong, A. Swoarop, P. Colosi. NNRI, NIH/NEI, Bethesda, MD.

4653 — 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. Gorbatyuk1. Cell Biology and Anatomy, UNT Health Science Center, Fort Worth, TX; 1Laboratory for Cell Recovery Mechanisms, Brain Science Institute, RIKEN, Tokyo, Japan; 2Department of Molecular Genetics and Microbiology, University of Florida, Gainesville, FL. *CR

4654 — A380 Ethanol Consumption Correlates with Retinal Degeneration and Vision Loss in the P23H Rat. Gema Esquivel1, L. Lax1, L. Fernandez-Sanchez1, A. Naouiller1, J. Pinilla1, N. Cuenca1. Physiology, Genetics and Microbiology, University of Alicante, Alicante, Spain; 2Ophthalmology, Universityary Hospital Lozano Blesa, Zaragoza, Spain.


4656 — A382 Crbl1 And Crbl2 Controls Cell Division During Retina Development. Lucie P. Pellissier1, C.H. Alves1, D. Lundvig1, M. Garcia-Garrido1, V. Sothilingam1, N. Tanimoto2, F. Richardson1, A. Le Bivel1, M. Seeliger1, J. Wijnholds1. 1Neurological Genetics, Netherlands Inst for Neurosci, Amsterdam, The Netherlands; 2Division of Ocular Neurodegeneration, Institute for Ophthalmic research, Tuebingen, Germany; 3Institut de Biologie du Développement de Marseille Luminy, Marseille, France.

4657 — A383 Deficiency in the Pro-Apoptotic CHOP Protein, a UPR Downstream Marker, Does Not Prevent Vision Loss in T17M Rho Retina. Sonali R. Nashine1, A.S. Lewin2, M.S. Gorbatyuk1. 1Cell Biology and Anatomy, University of North Texas Health Science Center, FortWorth, TX; 2Molecular Genetics & Microbio, University of Florida, Gainesville, FL.

4658 — A384 Effects of Chlorin e6 on Retinitis Pigmentosa Rhodopsin Mutants in vivo. Fernanda Balem1,2, P.S. Akamine3, G.L. Lishomoto4, B.V. Nagy5, D.F. Ventura1, J. Klein-Seetharaman1, D. Hamassaki1,2. Cell and Developmental Biology, 1Experimental Psychology, University of Sao Paulo, Sao Paulo, Brazil; 2Structural Biology, University of Pittsburgh, Pittsburgh, PA.

4659 — A385 siRNA preservation in rapidly progressing autosomal dominant retinitis pigmentation, Brian P. Ross Miller1,2, H. Mao1,2. 1Molecular Genetics & Microbiology, 1Molecular Genetics & Microbio, 1University of Florida, Gainesville, FL; 2Department of Molecular Genetics and Microbiology, 2Department of Molecular Genetics and Microbiology, 2University of Florida, Gainesville, FL.


4661 — A387 Long-term Preservation Of Cone Photoreceptors By A Novel Multifunctional Drug In A Mouse Model Of Human Retinitis Pigmentosa. Bin Lin1, K. Wang2, M.B. Youdim2. 1Anatomy, Eye Institute, 2Anatomy, 1University of Hong Kong, Hong Kong; 2Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel.

4662 — A388 Analysis Of Photoreceptor Abnormality In Gucy2d+/- Transgenic Pigs. Corinne Kostic1, T. King1, C. Sylvain1, S. Philippe1, S. Lillic1, C. Sarkis1, J. Mallet1, Y. Arsenjevic1, B. White1. 1Gene Therapy & Stem Cell Biol, Jules-Gonin Eye Hosp, Univ Lausanne, Lausanne, Switzerland; 2Division of Developmental Biology, The Roslin Institute, University of Edinburgh, Scotland, United Kingdom; 3New Vcets, Paris, France; 4Team of Biotherapy and Biotechnology, CRICM, Paris, France. *CR

4663 — A389 Establishing a Human AMD Interactome. Paul Wong1, D.A. Ferrington2, T.W. Olsen2. 1Ophthalmology, Emory University, Atlanta, GA; 2Ophthalmology, University of Minnesota, Minneapolis, MN.

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


6489 — A415 Identifying the Roles of Interferon-Gamma Inducible Chemokines in Progression of Age-related Macular Degeneration (AMD). Syeda F. Absar1A, D. Cyr2, A.D. Proia3, M.T. Malik4, P. Bev5, K. Lashkari6. 1Scheepens 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. Eiichi Nishimura1A, M. McCloskey2, Y. Jiang3, G.W. Smith4, H. Wang5, E.S. Wittencher6, R. Koide7, M.E. Hartnett8. 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; 4Retina Specialty Institute, Mobile, AL; 5Retina Specialty Institute, Pensacola, FL. *CR

6493 — A419 Impaired Vision in the DNA Double-Strand Break Repair Poly-mutant Mouse. Noemi L. Alvarez-Lindo1, J. Baleraida1, J.M. Sammartini1, T. Suarez2, G. Terrados3, B. Escudero4, A. Bernad5, L. Blanco6, P. de la Villa7, E. de la Rosa1. 1Cellular and molecular medicine, Centro de Investigaciones Biologicas-CSIC, Madrid, Spain; 2Centro de Biologia Molecular CSIC-UMAM, Madrid, Spain; 3Centro de Nacional de Investigaciones Cardiovasculares, Madrid, Spain; 4Physics, 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 Muu Sim1, J. Seok2, M. Kang4, Y. Shin5, H. Shin6, Y. Lee7, A. Hussain7. 1Neuron Science Department, Korea Atomic Energy Research Institute, Daejeon, Republic of Korea; 2GBioMix, Jeonju-si, 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. Jin3, J. Tuo4, M. Xiang5, C-G. Chang6. 1Laboratory of Immunology, National Eye Inst/NHI, 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 Lindsay1, T.A. Reh2, J.B. Harley3, D. Lamba4, J. Gust4. 1Laboratory of Molecular Immunology, National Eye Institute, Bethesda, MD; 2Department of Ophthalmology, Harvard Medical School, Boston, MA; 3Department of Ophthalmology, Harvard Medical School, Boston, MA; 4Ophthalmology, John A Moran Eye Ctr, Univ of Utah, Salt Lake City, UT. *CR


6503 — A429 Differential gene expression of RPE cells in C5h2 transgenic mice. Cynthia X. Wang1, K. Zhang2, B. Ardu3, R. Ufret-Vincenty4. Ophthalmology, UTSW Medical Center, Dallas, TX.

6504 — A430 Reticular Fundus Autofluorescence (FAF) In The Evolution Of Geographic Atrophy (GA) In A Rat Model Of RPE Toxicity. Shelley R. Boyd1, X. Zhao2, H. Wang3, N. Pankova3, D. Baek1, R. Hillier2, T. Liang2, A. Altimare. Ophthalmology & Vision Sciences, University of Toronto, St Michael’s Hospital & Li Ka Shing Knowledge Inst, ON, Canada.

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. Guillard3. 1Chemistry and Biochemistry, Northern Illinois University, Sycamore, IL; 2Chemistry and Biochemistry, 3Northern 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. Lauten6. 1Retina Specialty Institute, Mobile, AL; 2Retina Specialty Institute, Panama City, FL; 3Retina Specialty Institute, Pensacola, FL. *CR
5608 — A434 Conditional Knock-Out of Ran-binding 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. Ferreira1A, A. Saha1, E. Haque1, V-Z. Lei1, M. Webb1. 1Ophthalmology, Duke University Medical Center, Durham, NC; 2Medicine, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK.

5609 — A435 Image Registration Reveals Sites of Injury from Mitochondrial Oxidative Stress in the Retinal Pigment Epithelium. Alfred S. Lewin1A, M.P. Krebs2, S. Soo1A, K. Jones1A, H. Mao1B, 1Department of Ophthalmology, Val de Grace Military Hospital, Paris, France; 3Desmettes Military Hospital, Lyon, France; 2Ophthalmologist, Chamonix Mont-Blanc, France; 3Ecole Nationale de Ski et d’Alpinisme, Chamonix Mont-Blanc, France.

5610 — A436 Genetically-related Inflammatory Priming and Failing Retinal Maintenance Predispose to Age-Related Retinal Degeneration in Mice. Debarshi Mustafi1A, H. Kohno1A, K. Palczewski1A, T. Maeda1B. 1Ophthalmic & Visual Sciences, 1Case Western Reserve University, Cleveland, OH.

5615 — A517 Impact Of Visceral Fat, Serum Leptin Levels And High-sensitive Crp Levels On The Pathogenesis Of Age-related Macular Degeneration. Paulina Haas1, K. Kubista1, W. Krugluger1, 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.

5616 — A518 Correlation of Osteoporosis and Incidence of Skin Cancers and AMD grade in the Irish Nun Eye Study Population. Evelyn Moore1, V. Silvestri1, M. Stevenson1A, G. Silvestri1A. 1Ophthalmology, Royal Group Hospital, Belfast, United Kingdom; 2Ophthalmology, Royal Hospital Trust, Belfast, United Kingdom; 3Centre for Public Health, 4Centre for Vision andcular Science, 5Queen’s University, Belfast, United Kingdom.

5617 — A519 Plasma Homocysteine And Extracellular Soluble Receptor For Advanced Glycation End Products (esRage) In Aqueous Humor Of Patients With Age-related Macular Degeneration. Pinio Matoud1A1A, K. Ninios1A, N. Szentmarty1A, R. Obeid1A, B. Seitz1A. 1Department of Ophthalmology, 2Department of Clinical Chemistry and Laboratory Medicine, 1University of Saarland, Homburg, Germany.

5618 — A520 Visual Impairments In Age-related Macular Degeneration To Process Spatial Frequencies During Natural Scene Categorization. Ruxandra Hora1, B. Musel1, S. Chokron1, C. Chiquet1, J. Romane1, J. Le Bas1A, 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.

5619 — A521 Contrast Sensitivity As A Predictor Of Central Field Loss. Jennifer Wallis1, P.J. Bes1, L. Lesmes1, T.S. Wallis1, M. Jackson1. 1Vision Rehabilitation, Harvard Medical School/ Massachusetts Eye and Ear Infirmary, Boston, MA; 2Schepens Eye Research Institute, Harvard Medical School, Boston, MA.

5620 — 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. Charbonneau1, M. Guinta1, P. Saurel1, M. Bense1, B. Rebël1, F. De Takacsy1, R. Li1. 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.

5621 — 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. Hassell1, F. Abed1, M.C. Gilliez1, J.E. Keffe1, R.H. Gaymer1. 1Centre for Eye Research Australia, Melbourne, Australia; 2Save Sight Institute, Sydney, Australia.

5622 — A524 Outcome Study of Treating Neovascular Age-related Macular Degeneration: Preliminary Results. Margriet I. van der Reij1, M. Elshout1, Y. de Jong - Hess1, E.C. de Ha1, P.J. Ringens1, F. Hendrikse1, 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.

5623 — 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-Marc1, S. Martínez-Castillo1, R. Dolz-Marco1, J. Arévalo1A, M. Díaz-Llopis1A. 1Ophthalmology, University and Polytechnic Hospital La Fe, Valencia, Spain; 2Retina, Wilmer Eye Institute. Johns Hopkins University School of Medicine, Baltimore, MD; 3King Chahed Eye Specialist Hospital, Rijhaid, Saudi Arabia; 4Faculty of Medicine, University of Valencia, Valencia, Spain.

5624 — 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. Day, S. Dev. VitreoRetina Surgery, PA, Minneapolis, MN.

5625 — 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 Fournaux, M. Dominguez, L. Rosier, L. Velasque. Retine Tourny, 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. 1ophthalmology, William Harvey Hospital NHS trust, Ashford, United Kingdom; 2Medical Retina Department, Medical Retina Department, East Kent Hospitals University Foundation NHS Trust, Canterbury, Kent, Kent, United Kingdom.

6527 — A529 Novel Methods to Enhance Reading Ability in Patients with Macular Disease. Anthony Fernandes1, D. Roth1, A. Shah1, H. Fine1, J. Prenter1, W. Feuer1. 1ophthalmology, Robert Wood Johnson Medical School, New Brunswick, NJ; 2Bascom Palmer Eye Institute of the University of Miami School of Medicine, Miami, FL. *CR

6528 — A530 A French Version Of Skread To Identify Reading Difficulties Related To Central Scotoma. Anne Catherine Scherlen1, G. Faure1, M. Goldschmidt2, D. Rafter1, F. Vital-Durand3, C. Miege1. 1R&D Optics Low Vision, Essilor International, Paris, France; 2Hospital La Timone, Marseille, France; 3Vitreoretinal Unit, Manchester Royal Eye Hospital, Manchester, United Kingdom; 4ophthalmology, University of Bonn, Bonn, Germany; 5Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany. *CR

6531 — A535 Scotoma. Identify Reading Difficulties Related To Central Scotoma. Anne Catherine Scherlen1, G. Faure1, M. Goldschmidt2, D. Rafter1, F. Vital-Durand3, C. Miege1. 1R&D Optics Low Vision, Essilor International, Paris, France; 2Hospital La Timone, Marseille, France; 3Vitreoretinal Unit, Manchester Royal Eye Hospital, Manchester, United Kingdom; 4ophthalmology, University of Bonn, Bonn, Germany; 5Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany. *CR

6529 — A532 Optical Coherence Tomography Hyperreflective Foci Increase in Quantity and Central Foveal Density in Intermediate Age-related Macular Degeneration. Rachelle O’Connell1, F.A. Foulger1, J.G. Christensen2, S.J. Chiu3, S. Farsiu4, C.A. Toth1. 1Biomedical Engineering, 2ophthalmology and Biomedical Engineering, 3Duke University, Durham, NC; 4ophthalmology, Duke Univ Eye Center, Durham, NC. *CR


6534 — A536 Evaluation of Peripheral Fundus autofluorescence Changes in Patients with Wet ARMD: The OTELLO Study. Anita Zenger1, M.B. Rougier, III, P.E. Stanga1, S. Schmitz-Valckenberg1, L. Reznicek2, U.E. Wolf-Snurrbusch1,3,4. 1Bern Photographic Reading Centre, 2ophthalmology, ‘University Bern, Bern, Switzerland; 3Service d Ophthalmologie, CHU-Bordeaux Unis 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


6537 — A539 Within-visit And Between-visit Repeatability Of The Diagnosys Full-field Stimulation Threshold (D-FST) When Measuring Rod Sensitivity In Patients With Atrophic Age-related Macular Degeneration (ARMD). Martin Klein1, D.G. Birch1, J. Chandler1, J. Koester1, H. Hughes1, A. Reaves1, R. Kubota1. 1Rose Silverthorne Ret. Degen. Lab, Retina Foundation of the Southwest, Dallas, TX; 2ophthalmology, UT Southwestern Medical Center, Dallas, TX; 3Acucela, Inc., Seattle, WA. *CR

6538 — A539 — 540 Neuropeptide Y Protects Retinal Neural Cells From Glutamate-induced Toxicity Through The Activation Of NPY Y1Receptor. Ana Santos-Carvalho1, A.F. Ambrósio1, C. Cavadas2. 1Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal; 2Faculty of Pharmacy, University of Coimbra, Coimbra, Portugal; 3Center of Ophthalmology and Vision Sciences, IBILI, Faculty of Medicine, University of Coimbra, Coimbra, Portugal.


6540 — A542 Involvement of P2X7 receptor and therapeutic efficacy of Brilliant Blue G in a mouse model of subretinal hemorrhage. Shoji Notomi1,2, T. Hisatomi3, A. Takeda4, Y. Ikeda5, H. Enaide6, T. Ishibashi, Sr. 1ophthalmology, 2Dept of Ophthalmology, Kyushu University, Fukuoka, Japan; 3Department of Ophthalmology, Kyushu University, Higashi-ku, Japan.

6541 — A543 Changes In P2X Receptor Activity During Retinal Degeneration. Aleksandra Poloushkina, A. Nobler, I. Tochitsky, R.H. Kramer. UC Berkeley, Berkeley, CA.

6542 — A544 Localization & Physiology of L-type Ca2+ Channels in Human RPE. Qin Wan, Y. Raghuvar, R. Li, J. Adjianjo, R. Fariss, A. Manniniskis, S.S. Miller. NEI/NIH, Bethesda, MD.

6543 — A545 Intercellular Ca2+ Wave Disruption In Human Retinal Pigment Epithelium Cells Induced By Mechanical Stimulation. Amna E. Abu Khamek1, K. Juati-Ustia1, K. Larsson1, H. Skottman1, J. Hytten1. 1Department of Biomedical Engineering, Tampere University of Technology, Tampere, Finland; 2BioMedTech, Tampere, Finland; 3Institute of Biomedical Technology, University of Tampere, Tampere, Finland.

6544 — A547 Alpha 2 adrenergic agonist receptor in chick retina. Gabriella V. Costa1,3, M.K. Shigetomi1,2, R. Fleming1,4, V.V. Oliveira1,4, A.A. Costa1,3, P. Gardino1,2, A.M. Dantas1,2,4. 1Institute of Biophysics Carlos Chagas Filho, 2Department of Ophthalmology, 3Federal University of Rio de Janeiro, 4Department of Ophthalmology, Federal University of Rio de Janeiro, Brazil.

6545 — A548 Angiotensin II upregulates MCP-1 Expression through the NF-kB Pathway in Human Retinal Pigment Epithelium. Maria E. Marin Castano, M. Pons. Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.


6548 — A550 Loss of Ifi6 Leads to Progression of Tumor Phenotype in Primary Retinal Pigment Epithelial Cells. Jaya Pranava Gnana Prakasam1, R. Veeranan-Karmegam2, V. Coothankandaswamy1, S.K. Reddy1,2, P.M. Martin1,2, M. Thangaraju1,2, S.B. Smith1,2. 1Department of Ophthalmology, BDept of Ophthalmology & Visual Sciences, 2Center of Ophthalmology and Vision Sciences, 3Vitreoretinal Unit, Manchester Royal Eye Hospital, Manchester, United Kingdom; 4ophthalmology, University of Miami School of Medicine, Miami, FL. *CR

Hall B/C A540-A571 Thursday, May 10, 2012, 11:15 AM-1:00 PM
Retinal Cell Biology / Visual Neurophysiology

548 Retina and RPE Cell Biology

Moderator: Peter F Hitchcock
6549 — A551 Therapeutic Inhibition Of Retinoblastoma By Nanoceria. Kathryn E. Klump1A, S.V. Kisseva2A, S. Seal1A, M.A. Dyer4A, J.F. McGinnis2B,3A; 1Okahoma Center for Neuroscience, 2Department of Ophthalmology, University of Oklahoma Health Sciences Center, Oklahoma City, OK; 3Department of Developmental Neurobiology, St. Jude’s Childrens Research Hospital, Memphis, TN; 4Howard 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 Hec Cell Cultures. Gustavo T. Grottoni1A, R.R. Loureiro1, J. Covare1, L. Gama1A, P. Cristovam1, J.P. Gomes1. 1Ophthalmology, UNIFESP/Santa Casa de Santos, Santos, Brazil; 2Ophthalmology, UNIFESP, Santos, Brazil; 3Oncology, Instituto Israelita de Pesquisas Albert Einstein, São Paulo, Brazil. 


6553 — A555 CEP290 is Required for Photoreceptor Ciliogenesis and Ventricular Epithelial Clia Function. Erin Tamamoto1, R. Rachel1, D. Manusinghe1, T. Li1, L. Dong1, K. Swaroop1. 1Neurobiol-Neurodegermtn & Repair, NEI, Bethesda, MD; 2NINDS, Bethesda, MD. 

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


6556 — A558 Effect of Storage Temperature on the Viability of Cultured Retinal Pigment Epithelial Cells. Laura Pasovici1A,3A, J.R. Eide2A,3A, P. Aasle1A, T. Lybeck1A, Y. Cheri1A, T.P. Utzheim1A. 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 Rd1 Mice. Violeta Sanchez-vallejo1, M. Flores-Bellver1, R. Alvarez-Nölling1, S. Johnsen-Soriano1, M. Miranda1, F. Romero Gómez1, P. Urbina1,2. 1Physiology, Univ CEU Cardenal Herrera, Valencia, Spain; 2Fundación Oftalmológica del Mediterráneo, Valencia, Spain; 3Universidad Católica ‘San Vicente Mártir’, Valencia, Spain. 

6560 — A562 The Cytochrome 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. Wannisa Promsote1A, S. Ananth1A, R. Veeranan-Karmegam1A, T. Liu1, C.C. Chia1, V. Ganapathy1, P.M. Martin1A. 1Biochemistry and Molecular Biology, 2Pharmacology and Toxicology, 3Georgia Health Sciences University, Augusta, GA; 3Immunoaplication Section, National Eye Institute, Bethesda, MD. 

6561 — A563 Cigarette Smoke Induces Endoplasmic Reticulum (ER) Stress in Retinal Pigment Epithelial (RPE) Cells. Marisol d. Cano1, L. Wang1, A. Wan1, J.T. Handa1. 1Wilmer Eye Institute/ophthalmology, Johns Hopkins University, Baltimore, MD; 2Jhons Hopkins Wilmer Eye Inst, Baltimore, MD. 

6562 — A564 Whole Number and Spatial Distribution Of The Pomp4 Family Of Transcription Factors In The Adult Rat Retina. Francisco M. Nadas-Nicolás1A, M. Jiménez-López1, M. Salinas-Navarro2, L. Nieto-López3, A. Ortín-Martínez1A, C. Galindo-Romero1, M. Sánchez-Migallon1, P. Sobrado-Calvo1, M. Vidal-Sanz1, A. Aguado-Barrias1. 1Unidad de Investigación, Hospital Universitario Virgen de la Arrixaca, Murcia, Spain; 2Dpto Oftalmología, Universidad de Murcia, Murcia, Spain. 


6564 — A566 The mir-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 (Mreg) in Bisretinoid Lipofuscin Degradation in the Retinal Pigment Epitheliun (RPE). Laura S. Frost1, J.R. Sparrow2, P.F. 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. Druck, S. Bhattachari, S. Seo, 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 Pheagocytosis. Kieron S. Boochoon1A, J.T. Davis4A, J.C. Manaranca1A, A.M. McDermott4A, W.J. Foster2A. 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. Cabrera, Y. Zhou, W. Li. Ophthalmology, Bascom Palmer Eye Inst, Univ of Miami, Miami, FL. 


Hall B/C A208-A255

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

Glaucoma / 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. Yosihiro Wada1A,2A, T. Nakamachi1B,2A, K. Endo1A,2A, T. Seki1A, S. Shioda1A, R. Koide1B. 1Department of Ophthalmology, 2Department of Anatomy, 1Showa University School of Medicine, Tokyo, Japan. 

6571 — A209 Increased Neuro-retinal Injury After Intracocular Pressure Elevation In Xenonitochondrial Mice And Compensation By Ophxos 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. 

Thursday – Posters – 6549 – 6571

11:16 am – 1:30 pm

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Thursday Posters

11:15 am – 1:00 pm

6572 – 6597 – Thursday – Posters

Elevated Intraocular Pressure Increases Serum Protease Levels In The Retina And Promotes Retinal Ganglion Cell Loss.
Shravan K. Chidlow, A. Zhang, A. Cheng. Eye Research Institute, Oakland University, Rochester, MI.


6574 – A212 Neuroprotective Effects Of Epigallocatechin-3-gallate against N-methyl-D-aspartate Induced Excitotoxicity in Rat Retina. Lihin Jiang, F. Chen, N. Wang. Eye Center, Beijing Tongren Hospital, Beijing, China.


6577 – A215 Down Regulation of BM88 after Optic Nerve Crush. Ahmad M. Siddiqui, T.F. Sabljic, A.K. Ball. Pathology and Molecular Medicine, McMaster University, Hamilton, ON, Canada.


6581 – A219 Royal jelly Peptide Promotes Retinal Ganglion Cell Survival in Experimental Model of Glaucoma Through Up-regulating BNDF and GDNF. Jihong Wu, X. Sun, S. Zhang. Eye & ENT Hospital, Fudan University, Shanghai, China.


6583 – A221 Valproate Exerts Pleiotropic Neuroprotective Effects on Retinal Ganglion Cells in vivo Through Epigenetic Modulation in an Experimental Model of Glaucoma. Shenghai Zhang, X. Sun, J. Wu. Eye & ENT Hospital, Fudan University, Shanghai, China.

6584 – A222 Acid Speghymelisin Plays a Role in IR-induced Retinal Degeneration. Jie Fun, R.X. Wei, Y.A. Hamman, C.E. Crosson. *Ophthalmology-Storm Eye Inst, †Biochemistry and Molecular Biology, ‡Ophthalmology, ††Medical Univ of South Carolina, Charleston, SC.

6585 – A223 Soluble IL-6R and Neuroprotection of Retinal Ganglion Cells in Glaucoma. Heather M. Cathcart, R.M. Sappington. Vanderbilt Eye Institute, Vanderbilt Univ Med Center, Nashville, TN.


6587 – A225 o2-adrenergic Receptor Agonist Restores Mitochondrial Transcription Factor A And Oxidative Phosphorylation, And Protects Retinal Ganglion Cells Against Retinal Ischemic Injury. Won-Kyu Ju, D. Lee, K-Y. Kim, Y. Noh, R.N. Weinreb. †Hamilton Glaucoma Center, ‡Neuroscience, ††Univ of California San Diego, †‡La Jolla, CA; ‡Ophthalmology, Chonbuk National University, Jeonju, Republic of Korea.

6588 – A226 Oxocostatin M Protects Retinal Ganglion Cells in an Optic Nerve Crush Mouse Model. Xin Xia, Y. Li, Z. Wang, L. Luo, R. Wen. *Bascom Palmer Eye Institute, University of Miami, Miami, FL; †Department of Ophthalmology, Shanghai First People’s Hospital, Jiaotong University, Shanghai, China.


6591 – A229 Effect Of γ- Synuclein Antibody On Rge5 And Mitochondrial Apoptosis Pathways. Corina Wilding, K. Bell, F. Grus, N. Pfeiffer. Experimental Ophthalmology, Mainz, Germany.

6592 – A230 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.

6593 – A231 The TRPV1 Response to Stress of Retinal Ganglion Cells. Nicholas J. Ward, K.W. Ho, T.N. Sidorenova, D.J. Calkins. Ophthalm & Vis Sciences, Vanderbilt Eye Institute, Nashville, TN.


6597 – A235 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.
6619 – 6643 – Thursday – Posters

6619 – A608 Aravind Pseudoxefoliation Study (APEX): I. Intraoperative Results. Alan L. Robin1,2, R. Venkatesh1, A. Harripria1, C. Shivakumar1, V. Prabhu1, M. Seshan1, B. Talwar3, P. Sathyam3, D. Ramakrishnan1. 1Aravind Eye Hospitals and Post Graduate Institute of Ophthalmology, Madurai, India; 2Ophthalmology and International Health, Johns Hopkins University, Baltimore, MD.

6620 – A609 Evaluation of Femtosecond Laser-Assisted Clear Corneal Cataract Surgery. Milan P. Ranka1, M.Y. Choi1, S. Dimitriou1, J. Datseris1, A. Kanellopoulos1,2. 1Ophthalmology, New York University, New York, NY; 2RealEye Center, Munich, Germany; 3OMMA Eye Center, Athens, Greece; 4Laser Vision Institute.gr, Athens, Greece.

6621 – A610 Reduced Laser Pulse Width Improves Cutting Efficiency in Laser Refractive Cataract Surgery. Simone Schneider1,2, H. Uy1, K. Edwards1, T. Olmstead1, V. Teuma1, S. Both1,2. 1Clinical and Regulatory Affairs, 2Research & Development, LensAR, Orlando, FL; 3Asian Eye Institute, Makati, Philippines. *CR.

6622 – A611 Morphology of Femtosecond Intrastromal Arcuate Incisions. Perry S. Binder1,2, B. Gray2, M. Brownell2, J. Martiz2, M. Gwon3,4, J. Hill2. 1Department of Ophthalmology, Univ of California Irvine, CA; 2Newport Beach, CA; 3Ophthalmology, GM St. Mary eye center, Busan, Republic of Korea; 4Ophthalmology, Haeundae Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea.

6623 – A612 Posterior Capsule Opacification of a 1-piece and a 3-piece Microincision Intraocular Lens – 1 year Comparison. Ana Prinz1,2, B. Weingessel1, O. Findl3, P.V. Vcece-Marlovits4. 1Department of Ophthalmology, Hietzing Hospital, Vienna, Austria; 2Department of Ophthalmology, Hanusch Hospital, Vienna, Austria.


6625 – A614 Corneal And Total Optical Quality After 2.2mm Coaxial Mini-incision Cataract Surgery Combined With Bimanual Irrigation-aspiration. Corinne Dot1, H. El Chehab1, P. Savary2, A. Agard1, A. Malec1, N. Chave1, G. Ract-Madoux1, J. Giraud1. 1Ophthalmology, Hospital Desgenettes, Lyon Cedex 03, France; 2Department of Ophthalmology, Hospital Desgenettes, Lyon, France.

6626 – A615 Visual Quality In Monofocal Lenses: Compare Primary Posterior Capsulorrhesis Versus Yag Laser Capsulotomy. Sergio D. Herrera1, Sr., O. Guerrero1, Sr., B. Medina1, C. Palacio1, C. Mendoza1, L. Arroyo1. Anterior Segment, Hospital Foundation; Mexico, Mexico.

6627 – A616 Major Breed Distribution and Common Histopathologic Findings in Canine Globes Encucluate as a Result of Glaucoma Following Cataract Surgery. Erin M. Scott1, D.W. Essor1, K.J. Fritz1, R.R. Dubielzig2. 1Pathobiological Sciences, UW-Madison School of Veterinary Medicine, Madison, WI; 2Eye Care for Animals, Tustin, CA.

6628 – A617 Correlation Of Subjective Nuclear Sclerotic Cataract Grading And Intraoperative Cumulative Dispersed Energy During Phacoemulsification. Nakul Shekhawat1, A. Chomsky1,2. 1Department of Ophthalmology, Washing University School of Medicine, Nashville, TN; 2VA Tennessee Valley Healthcare System, Nashville, TN.

6629 – A618 Asymptomatic Capsular Bag Distension 10 years After Cataract Surgery, 7 Case Reports. Eva Monestam. Clinical Sci & Ophthalm, UMEA University, Umea, Sweden.

6630 – A619 Objective Discrimination Between Operable And Non-operable Catars. Clemente Paz Filgueira1, R.F. Sanchez1, L.A. Issollo1, M. Villasca1, J. Pujol1, E.M. Colombo2. 1Departamento de Luminotecnica, ILAV, CONICET - UNT, San Miguel de Tucuman, Argentina; 2CD-Optica i Optometria, Universitat Politecnica Catalunya, Terrassa, Spain. *CR.

6631 – A620 Subjective Outcomes Evaluation of Aspheric Diffractive and Aspheric Diffractive Aspheric Multifocal IOLs. Dwayne K. Logan1, E. Sadri1. 1Cataract and Refractive Surgery, Atlantis Eyecare, Long Beach, CA; 2Cataract and Refractive Surgery, Atlantis Eyecare, Newport Beach, CA.


6633 – A622 Postoperative Refractive Error After Simultaneous Vitrectomy and Phacoemulsification with Sulfus Fixation of Intraocular Lens, eok soo suh, S. LEE, J. Chun. department of ophthalmology, Dongguk University Gyeongju Hospital, Gyeongju, Republic of Korea.

6634 – A623 Evaluation Of Subjective Outcomes With Two Presbyopia-correcting IOLs Following Phacoemulsification. Larry Katzen. Katzen Eye Care & Laser Ctr, Boynton Beach, FL. *CR.

6635 – A624 Randomized Comparison of a Transversal Ultrasound vs. a Torsional Handpiece in Phacoemulsification: A Contralaterally-Controlled Trial. Kerry Assil1, W. Christian1, L. Harris1. Assil Eye Institute, Beverly Hills, CA. *CR.

6636 – A625 Continuous Intraocular Pressure Measurements During Small Incision Phacoemulsification Surgery In Porcine Eyes. Seung Youn Jeu1, M. Son1, T. Baek1, J. Lee1. 1Ophthalmology, GM St. Mary eye center, Busan, Republic of Korea; 2Ophthalmology, Haeundae Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea.

6637 – A626 Silicone Sleeve Polishing Of Posterior Capsule, A Safe And Costless I/A Technique. Jean-Marie Giraud1, H. El Chehab1, J-R. Fennolland1, M. Francoz1, D. Sendon1, F. El Asri1, C. Denier1, C. Dot1, F. May1, J-P. Renard1. 1Ophthalmologie, Hopital d’Instruction des Armees du Val de Grace, Paris, France; 2Ophthalmologie, Hopital d’Instruction des Armees Desgenettes, Lyon, France.

6638 – A627 Intracamerale Anesthesia For Cataract Surgery, A Population-based Study On Patient Satisfaction And Outcome. Inger M. Westborg1, E. Moenestam1. 1Ophthalmology, Eye Clinic, Sunderby Hospital, Lulea, Sweden; 2Clinical Sci & Ophthalm, UMEA University, Umea, Sweden.

6639 – A628 Corneal Astigmatism And Its Correction With The Toric Intraocular Lens And Peripheral Corneal Relaxing Incisions. Li Wang, D.D. Koch, M.P. Weikert, R. Jenkins. Cullen Eye Institute, Dept Ophthalmology, Baylor College of Medicine, Houston, TX.

6640 – A629 Viscoat Versus Visthesis During Phacoemulsification Cataract Surgery: Corneal And Foveal Changes. Marilita M. Moschos1, E.P. Chatzivalli1, T.N. Sergentanis1, I. Ladas1. 11st Department of Ophthalmology, Department of Epidemiology and Biostatistics, University of Athens, Athens, Greece.


6642 – A631 A Comparative Study Of Phacoemulsification With The Ozil-Inelligent Phaco(IP) handpiece and OZil handpiece:retrospective clinical study. Yoshinao Setoguchi1, H. Ito1, H. Nakashiki1, K. Kuroda1, C. Denier1, C. M. Taniguchi1, Y. Okamoto1, A. Ootani1, Y. Tanaka2. 1Japanese Red Cross Wakayama Medical Center, Wakayama, Japan; 2Tanaka Eye Clinic, Wakayama, Japan.

6643 – A632 Balancing the Small Angle Domain (Acuity) and the Large Angle Domain (Straylight) of the Point-Spread-Function for Cataract Surgery. Thomas J. Van Den Berg1, E. Mönestam2. 1Ophthalmic Research, Netherlands Inst for Neurosci, Royal Acad, Amsterdam, The Netherlands; 2Ophthalmology, Academic Medical Center, Amsterdam, The Netherlands. *CR.
Thursday – Posters – 6644 – 6668

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.


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.


6658 — A647 Change In Central Corneal Volume After Cataract Surgery, Melissa M. Wong, A. Shukla, W.M. Moir.


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.


6665 — A654 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.

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.


6681 — D701 Conjunctival Bacterial Flora And Antibiotic Resistance Patterns After Preoperative Application Of Topical Levofloxacin 0.3%. Herminia Munoz de Kaspar1, E. H. Hoffmann1, L. He2, B. Li2, M. M. Nentwich2, H. Hartig2, D. Koos2, M. Grueterich2, A. Kampik1. 1Department of Ophthalmology, Ludwig Maximillians-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. Tung1, G. L. Jones2, B. Loom1, T. C. Prager1, J. M. George1, O. J. Alsheikh3. 1Ophthalmology and Visual Science, 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 Ketorolac Tromethamine 0.4% Ophthalmic Solution Needed for Cataract Surgery? A Randomized Controlled Trial. Flavia G. Ticly1, R. P. Lira1, F. R. Zanetti1, M. Machado1, G. B. Rodrigues1, C. E. Arieta1. 1Ophthalmology, UNICAMP, Campinas, Brazil.


6688 — D708 Management Of Vitreal Loss From Posterior Capsular Rapture During Cataract Operation: Posterior Versus Anterior Vitrectomy? Chaerin Park1, 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.

6689 — D709 Laterality as a Risk Factor for Intraoperative Complications During Cataract Surgery, Danielle Trefi1, P. A. Legutko1, M. K. Daly1. 1Ophthalmology, Veterans Affairs Boston Healthcare System, Boston, MA; 2Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 3Semphonic, Novato, CA; 4Ophthalmology, Boston University School of Medicine, Boston, MA.

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. Ehr2, T. L. Comstock3. 1Cornea Consultants, PC, McLean, VA; 2European Pharmaceutical Clinical Science, Bausch & Lomb, Montpellier, France; 3Biostatistics, Medical Affairs, Global Pharmaceutical, Bausch & Lomb, Rochester, NY. *CR, F

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6692 — D712 Effect of Modified Cyclosporine A on Lens Epithelial Cell and Corneal Endothelial Viability. Elizabeth A. Lutz1, A.A. Higgins2, D.A. Wilkie3, A.J. Gemeensky-Metzler4, H.L. Chandler2. 1Veterinary Clinical Sciences, 2Optometry, 3The Ohio State University, Columbus, OH.


6694 — D714 Incidence Of Postoperative Complications In Infants Undergoing Bilateral Simultaneous, Bilateral Sequential, Or Unilateral Cataract Surgery. Sheela Masifi1, E. Agabegi1, B.S. Schnell2, M.B. Yang1, A. Khaw. 1Ophthalmology, 2Agricultural Institute, National University of Malaysia, Malaysia.


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 Inflammatory Reaction after Phacoemulsification. Myrthe Dieleman1, R.J. Wubbels2, P.W. de Waard3. 1Rotterdam Ophthalmic Institute, 2Glaucoma, 3Rotterdam Eye Hospital, Rotterdam, The Netherlands. *


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


6705 — D725 The Effect of Tamsulosin (Flomax) on Iris Vasculature. Andrew R.W. Bowman1, S.M. Verity1, P.H. Blomquist2, R.M. Shtein1. 1Biostatistics, 2Columbia University, New York, NY.

6706 — D726 Risk Factors For Developing Capsular Distension Syndrome. Maged Nessim1,2, P. Pandy1, M. Tahani1, P. Good4, A-J. Gharei1. 1Glaucoma Services, 2Visual Sciences, 3Birmingham & Midland Eye Centre, Birmingham, United Kingdom; 2Sandwell General Hospital, Birmingham, United Kingdom.


6708 — D728 Factors Influencing Retinal Image Contrast in Eyes with Retrodots(Reykjavik Eye Study). Kota Nagai1, N. Mitai2, N. Hatusaka1, H. Honda1, H. Osada2, E. Kudo2, H. Sasaki1, K. Sasada2, F. Jonasson1. 1Ophthalmology, Nagai Eye Clinic, Ibaraki, Japan; 2Department of Ophthalmology, University of Tsukuba, Ibaraki, Japan.

6709 — D729 Ultrastructural Changes In The Crystalline Lens Of Diabetic Patients Treated With Panretinal Argon Laser Photocoagulation. Zeljka Izzat1, M. Kilic1, 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. Mukhopadhyay1, A. Schrier1, E. Smith1. 1Ophthalmology, VA Medical Center Brooklyn, Brooklyn, NY; 2Ophthalmology, Columbia University Medical Center, New York, NY.


6713 — D733 Determination of Endotoxin Concentration in Hyaluronic Acid by The Light Scattering Method. Taiki Oshida1, Y. Sugiyama2, T. Asano2, T. Hirono2, M. Sawa1, M. Koyama2, 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.


6719 — D739 Resident Cataract Surgery Outcomes with Toric Intraocular Lenses. Helen R. Moreira1, P.B. Greenberg, MD1,2. Ophthalmology, UT Southwestern, Dallas, TX. *CR


6721 — 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.


6723 — 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. Too, J-M. Parel. Ophthalmic Biophysics Center, Dept. of Ophthalmology, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL. *CR


6725 — D745 Validity of a Miniaturised Open-field Aберrometer with Surgical Application. James S. Wolfssohn1, U.K. Bhatt, A.L. Sheppard4, S. Shakh1, H. Duda1, T. Mihashi1, T. Yamaguchi1. 1School of Life and Health Sciences, Aston University, Birmingham, United Kingdom; 2Midland Eye Institute, Birmingham, United Kingdom; 3Ophthalmology, Nottingham University, Nottingham, United Kingdom; 4Topcon, Tokyo, Japan. *CR

6726 — D746 Technical Requirements For Adapting A Corneal Femtosecond Laser Workstation To Perform A Lenticular Capsulotomy. Michael Brownell1, H. Fu4, J. Hill1, P. De Guzman1, Z. Bor1, L.G. Vargas1, A. Dennison1, J. Tumkin1. R & D, Abbott Medical Optics, Santa Ana, CA; Imaging Insights, Santa Ana, CA. *CR

6727 — D747 In Situ Modification of Customized IOLs using the Phase Wrapping Algorithm. Ruth Sahler1, J.F. Bille1, R. Aguillera1, S. Zhou1, D. Schanzlin1. 1Medical Physics, University of Heidelberg, Heidelberg, Germany; 2Physics, University of Heidelberg, Mannheim, Germany; 3Aaren Scientific Inc, Ontario, CA; 4R&D, Aaren Scientific Inc, Irvine, CA; 5Shiley Eye Center, UCSD, San Diego, CA. *CR


6729 — D749 Effects Of Cumulative Dissipated Energy On Postoperative Corneal Pachymetry In Resident Performed Cataract Surgery. Adam G. Chon. Ophthalmology, Univ of S Carolina, School of Medicine, Columbia, SC.

6730 — D750 A Comparison of the Cataract Extraction Operative Times When Using a Posterior Chamber Monofocal Versus Toric Intraocular Lens as Performed by Resident Surgeons. Solomon W. Ross1, B.A. Katz2, B.B. Markowitz2. 1Ophthalmology, University of South Carolina, Columbia, SC; 2Ophthalmology, University of South Carolina, Irmo, SC. *CR

6731 — 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, Israe.


6733 — D753 Evaluation Of A Warm-up Effect In Resident-performed Cataract Surgery. Mohsin Chowdhury1, J.B. Rosenburg2, J.G. Lee1, L.A. Eisen1, A.A. Madu1. 1Albert Einstein College of Medicine, Bronx, NY; 2Department of Ophthalmology and Visual Sciences; 3Division of Critical Care Medicine, Department of Medicine, Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY; 4Department of Ophthalmology and Visual Sciences, Case Western Reserve University, Cleveland, OH.


6735 — D755 IOL Formula Accuracy and Precision in Three Mono Focal Aspheric Lenses. Stephanie Wise1, J. Wang2, A. Rathod3, N.K. Wade1. 1Faculty of Medicine, 2Ophthalmology and Visual Sciences, University of British Columbia, Vancouver, BC, Canada; 3Office of Dr. N Kevin Wade, Vancouver, BC, Canada.


6737 — D757 Curvature Limits Predictability of IOL Power Calculations. Sverker Norby1, N. Hirschl2, Y. Nishi1, O. Findl1. 1Publik, Leek, The Netherlands; 2Moorefield Eye Hospital, London, United Kingdom; 3Moorefield Eye Hospital, London, United Kingdom. *CR

6738 — D758 Evaluation of Visual Outcomes with Aspheric Diffractive and Aspheric Apodized Diffractive Multifocal IOLs. Ehsan Sadri, D. Logan. Atlantis EyeCare, Newport Beach, CA. *CR

6739 — D759 Determining Femtosecond Laser Parameters for Clear Corneal Incisions. Roger F. Steinert1, P.S. Binder1, B. Gray2, Z. Bor1, M. Brownell1, J. Martí3, A. Gwon4, J. Hill4, L.G. Vargas1. 1Ophthalmology, Gavin Herbert Eye Institute, Irvine, CA; 2Biological Sciences, Abbott Medical Optics, Santa Ana, CA. *CR


6742 — D762 Comparison Between Objective And Subjective Assessment Of The Duration Of Cataract Surgery. Brivaël Le Du4, C. Temset2, P-R. Rothschild1, O. Rostaqui1, J-B. Daudin1, D. Monnet, Sr.1, S. Grabar2, A.P. Brezin, Sr.4. 1Hospital Eye Clinic, 2Biostatistics and epidemiology, 3Ophthalmology, 4College of Medicine, Bronx, NY.

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554 Oculoepithalasms

Moderator: Francisco H Andrade

6743 — D763 The Benefits of Ptosis Surgery. Richard A. Harrad, F. Kalapos, H. Garrott, H. Herbert, L. Jenkins, N. Ramsay. 1Ophthalmology, Bristol Eye Hospital, Bristol, United Kingdom; 2Psychology, University of the West of England, Bristol, United Kingdom.


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 Intraoperative Mitomycin C To Retard Future Cicatrix Formation During Severe Cicatricial Lid Retraction Repair. Renelle Pointdujour, J. Gutman, C. Calderon, P. Langer, R. Shinder. 1Ophthalmology, SONY Downstate Medical Center, Brooklyn, NY; 2Ophthalmology, University of Medicine & Dentistry of New Jersey, Newark, NJ.

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

6758 — D778 Method for Measuring Lacrimal Drainage Resistance. Milap Mehta, J.D. Perry. 1Ophthalmology, Cleveland Clinic-Cole Eye Inst, Cleveland, OH; 2Ophthalmology, 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.

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.


6766 — D786 Evolution Of Axial Length In Congenital Glaucoma. Bruno Sautiere, A. Duhamel, A. Galet, J-E. Rouland. 1Ophthalmology, 2Anesthesia, 3Huriez Hospital, CHRU Lille, Lille, France; 4Biostatistics unit, CHRU Lille, Lille, France.

6767 — D787 Central Corneal Thickness and Intraocular Pressure in Moderate-Late Premature School Aged Children. Lina H. Raffa, J. Dahlgren, A.K. Karlsson, M.A. Gronland. 1Department of Ophthalmology, Institute of Neuroscience and Physiology, Gothenburg, Sweden; 2Department of Pediatrics, Institute of Clinical Sciences,The Sahlgrenska Academy at the University of Gothenburg, Gothenburg, Sweden; 3Department of Ophthalmology, Institute of Neuroscience and Physiology, Gothenburg, Sweden.
406
6788 — D952 Lack Of Influence Of Corneal Thickness On Biomechanical Waveforms And How That Impact In Distinguishing Candidates For Lasik Or Prk. Marcony R. Santiago, R. Ambrosio, J.R. Albrecht, D. Madrigal, S.E. Wilson. 2Ophthalmology, Cleveland Clinic Foundation, Cleveland, OH; 3Ophthalmology, University of Sao Paulo and Rio Laser, Sao Paulo and Rio de Janeiro, Brazil; 3Ophthalmology, Instituto de Olhos Renato Ambrosio, Rio de Janeiro, Brazil; 4Cola Eye Inst and Lerner Rach Inst, 5Cola Eye Institute, 6Cleveland Clinic, Cleveland, OH; 7Ophthalmology, University of Sao Paulo and Rio Laser, Sao Paulo and Rio de Janeiro, Brazil


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


6793 — D957 Biomechanical Response Of Pared Donor Corneas To An Air Puff: Isolated Cornea vs Intact Whole Core. Kimberly Metzler, A.M. Mahmoud, J. Liu, D. Lee, S.J. Shiao, C.J. Roberts. 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.


6801 — D965 Natural history of Intacts in keratoconus and corneal ectasia. Jason R. Desai, P.S. Hersh. 1Ophthalmology, 2Cornea and Laser Eye Institute, Teaneck, NJ.

6802 — D966 A Simple, Inexpensive And Efficient Method To Measure Changes In Biomechanics Of The Entire Globe. Olivier Richoz, F. Hafezi. Ophthalmology, Geneva University Hospital, Geneva, Switzerland.

6803 — D967 Biomechanical Modeling Of the Applanation Tonometry after Refractive Surgery. Svetlana M. Bauer, L.A. Karamshina, A.B. Kachanov, E.B. Voronkova. 1Theoretical & Applied Mechanics, 2St Petersburg State University, 3St Petersburg, Russian Federation; 4St-Petersburg Branch R&TC, 5St Petersburg, Russian Federation.

6804 — D968 To Evaluate The Efficacy Of Riboflavin As A Cyto-Protection For Limbal Epithelial Cells Exposed To UV-A Radiation. Debashish Das, D. Kamesh, S. Murali, A. Riboflavin As A Cyto-Protectant For Limbal Epithelial Cells Exposed To UV-A Radiation. Debashish Das, D. Kamesh, S. Murali, A. Friedman, D. Muller. 1Research, 2Avedro, Waltham, MA.


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.


6813 — D977 Rapid Collagen Photo-crosslinking method to Increase Corneal Mechanical Strength. Irene E. Kochover, D. Chervar, T.E. Gisel, E.E. Verlet, R.W. Redmond, S. Melki. 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.

6817 — D981 Contralateral Eye Long-term Follow-up Of Prophylactic High-fluence Collagen Crosslinking Combined With Lasik For High Myopia. Kathy M. Trad, S.L. Wang, A.J. Kanellopoulos. 1New York University School of Medicine, New York, NY; 2Laservision.gr Institute, Athens, Greece.
6818 — D982 Atopy, Floppy Eyelid Syndrome, Obstructive Sleep Apnea Syndrome, Eye Rubbing And Keratoconus. Ines Tran1A, J. Harque1A, A. Sauer1A, D. Gaucher1A, C. Speeg-Schatz1A, P. Bourgon1A, T. Bourcier1A. 1Service d’Ophthalmologie, 2Service sommeil, CHUV de Strasbourg, Strasbourg, France.


6820 — D984 Long-term Results Of Cross-linking Treatment For Progressive Keratoconus. Dan Epstein1, E. Albé1, R. Vinciguerra2, P. Vinciguerra2. 1Ophthalmology, Universitaets Spital Zurich, ZURICH, Switzerland; 2Ophthalmology, Istituto Clinico Humanitas, Milan, Italy.

6821 — D985 The use of Sub-Tenon Ranibizumab to Control Pterygium Recurrences. Linda Rose, S. Rivera, J. Byrd. Surgery, University of New Mexico, Albuquerque, NM. *CR, ∆


Hall B/C  D1153-D1196

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

Physiology & Pharmacology

557 Blood Flow

Moderator: Leopold Schmetterer

6823 — D1153 Coronary And Retinal Reactivity To Hyperoxia In Prediabetes And Type 2 Diabetes. Mary E. Lott1A, B. Smith1A, J.E. Slocumb1B, V. Shikumar1B, K. Betterman1B. 1Heart and Vascular Institute, 2Neurology, 3Penn State Milton S Hershey Med Ctr, Hershey, PA.


6825 — D1155 The Diameter Response To L-lactate And The Prostaglandin Analogule A46619 Is Different In Porcine Retinal Arterioles And Capillaries In Vitro. Simon M. Pedersen1A, T. Bek. Dept of Ophthalmology, Aarhus University Hospital, Aarhus, Denmark.

6826 — D1156 Effect of Nitric Oxide Inhalation on Retinal Arteriolar Diameter in Minipigs. Ioannis K. Petropoulos1A, A-L. Martin1B, G. Mangiouris1A, E. Mendrinos1A, P.C. Rimensberger1A, C.J. Pournaras1A. 1Laboratory of Neurobiology and Physiology of the Retinal Circulation, Department of Ophthalmology, 2Department of Pediatrics, 3Geneva University Hospitals, Geneva, Switzerland.


6829 — D1159 Role of Endothelin-1 in Optic Nerve Head Blood Flow Regulation during Isometric Exercise in Healthy Humans. Agnes Bolt1A, D. Schmid1A, M. Lasta1A, S. Kay1A, S. Palkovits1A, R. Tolö1A, G. Fuchsjaeger-Mayer1A, G. Garhofer1A, L. Schmetterer1A. 1Department of Clinical Pharmacology, 2Medical University of Vienna, Vienna, Austria.

6830 — D1160 Evaluation of Ultrasound-Assisted Thrombolytic Using Nontargeted Ultrasound Contrast Agents in a Model of Retinal Vein Occlusion. Walid F. Abdallah1A,2, H. Patel3, E. Grant3, G.J. Chader1A, M.S. Humayun1A. 1Ophthalmology, 2Doheny Eye Institute, Los Angeles, CA; 3Radiology, Keck School of Medicine, University of Southern California, Los Angeles, CA. *CR

6831 — D1161 In Vivo Adaptive Optics Imaging Of Retinal Pericytes And Capillary Blood Velocity In Mice. Jesse B. Schalleck1A, Y. Geng1A, D.R. Williams1A, C.J. Pournaras1A. 1School of Medical University of Vienna, Vienna, Austria.

6832 — D1162 Changes in Choroidal and Optic Nerve Head Blood Flow Regulation During an Experimental Increase in Ocular Perfusion Pressure. Doreen Schmidt1A, A. Boltz1B, S. Kay1B, R.M. Werkmeister1A, N. Dragostinoff1A, M. Lasta1A, E. Polska1A, G. Garhofer1A, L. Schmetterer1A. 1Department of Clinical Pharmacology, 2Center for Medical Physics and Biomedical Engineering, 3Department of Ophthalmology and Optometry, 4Medical University of Vienna, Vienna, Austria.

6833 — D1163 Retinal Blood Flow In Healthy Young Subjects. Gerhard Garhofer1A, R.M. Werkmeister1A, N. Dragostinoff1A, L. Schmetterer1A. 1Department of Clinical Pharmacology, 2Biomed Engineering & Physics, 3Medical University of Vienna, Vienna, Austria.

6834 — D1164 Hemodynamic and Microcirculation of Retinal Vessels in Patients With Chorioretinal Scarring. Bruce I. Gaynes1A, P-Y. Teng1A, J.M. Wanek1A, M. Shahidi1A. 1Ophthalmology, Loyola University Chicago, Maywood, IL; 2Ophthalmology and Visual Sciences, University of Illinois, Chicago, IL.

6835 — D1165 Evaluation Of Retinal Vasomotor Reactivity During Changes In Arterial Blood Oxygen Content. Helene Kergoat, C. Dutrissac, J.F. Lovassik. School of Optometry, University Montreall, Montreal, QC, Canada.

6836 — D1166 Effect Of Breathing Pure Oxygen And A Mixture Of 92% O2 + 8% CO2 On Flicker Induced Vasodilatation. Stefan Palkovits1A, M. Lasta1A, R. Tolö1A, G. Garhofer1A, L. Schmetterer1A. 1Clinical Pharmacology, 2Center for Medical Physics and Biomedical Engineering, 3Medical University of Vienna, Vienna, Austria. ∆


6839 — D1169 Bloodflow Regulation In The Optic Nerve Head During Prolonged Elevation Of The Intraocular Pressure. John V. Lovassik1A, H. Kergoat1A, M. Parent1A, M.G. Quigley1A. 1School of Optometry, University of Montreal, Montreal, QC, Canada; 2Department of Ophthalmology, McGill Univ/Univ of Montreal, Montreal, QC, Canada.


6842 — D1172 Basal Blood Flow And Autoregulation Changes Within the Optic Nerve Head Of Rhesus Monkey With Idiopathic Bilateral Optic Atrophy. Chelsea Piper1, B. Fortune2, G. Cull1, C.F. Burgoyne1A, G.A. Cioffi1B, L. Wang1A. 1Optic Nerve Head Research Lab, 2Omphthal-Discoveries in Sight, 3Devers Eye Institute, Portland, OR; 4Devers Eye Institute, Legacy Health, Portland, OR; 5Devers Eye Institute, Legacy Research Institute, Portland, OR. *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
6867 – 6884 – Thursday – Posters

Hall B/C  D1197-D1214
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Physiology & Pharmacology

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 Palioura, Y. Gobin, S.E. Brodie, I. Dunkel, B. Marr, D. Abramson. Ophthalmic Oncology Service, Memorial Sloan-Kettering Cancer Center, New York, NY; Currently, Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; Division of Interventional Neuroradiology, Departments of Radiology, Neurosurgery and Neurology, Weill Cornell Medical College, New York Presbyterian Hospital, New York, NY; Department of Ophthalmology, Mount Sinai School of Medicine, New York, NY; Department 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 Hu, R.B. Rosen, M. Chen. Laboratory of preclinical investigation, 1Institut Curie, Paris, France; 2Dpt pathology, Veterinary school, Maison Autonome des Hopitaux de Paris, France; 3Department of Biochemistry and Molecular Biology, Shanghai Jiaotong University School of Medicine, Shanghai, P.R., China; 4Laboratory of Retinoblastoma Xenograft.


6871 — D1201  The Protein Kinase C (PKC)/Protein Kinase D (PKD)/Steroid Receptor Coactivator (SRC)-3 pathway is an important therapeutic target in Gα-mutant Uveal Melanomas. Vassiliki Poulati, S. Chew, B. He, V. Eedumari, D. Bedoya, M.J. Jagar, B.W. O’Malley, N. Mitsiades. Ophthalmology, VA Boston Healthcare System, Boston University, Boston, MA; ‘Medicine/Molecular and Cellular Biology, ‘Molecular and Cellular Biology, ‘Baylor College of Medicine, Houston, TX; ‘Adrienne Helis Malvin Medical Research Foundation, New Orleans, LA; ‘Ophthalmology, Leiden University Med Center, Leiden, The Netherlands.

6872 — D1202  Periocular Tissue Concentration of Propranolol after Delivery with a Gel-forming Solution. Michael B. Yang, J. Hao, H. Liu. Laboratory of preclinical investigation, 1Institut Curie, Paris, France; 2Dpt pathology, Veterinary school, Maison Autonome des Hopitaux de Paris, France; 3Department of Biochemistry and Molecular Biology, Shanghai Jiaotong University School of Medicine, Shanghai, P.R., China; 4Laboratory of Retinoblastoma Xenograft.


6876 — D1206  Therapeutic Efficacy By Targeting Correction Of Notch1-induced Alberrants In Uveal Tumors. Xiaolin Huang, L. Wang, H. Zhang, R. Jia, H. Wang, Z. Zhao, G. Qian, A.D. Singh, S. Ge, X. Fan. Laboratory of Ophthalmology, Ninth People’s Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, P.R., China; Department of Biochemistry and Molecular Biology, Shanghai Jiaotong University School of Medicine, Shanghai, P.R., China; ‘Coe Eye Institute, Cleveland, OH.

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


6882 — D1212  In Vivo Confocal Microscopy Study Of Conjunctival Intraepithelial Neoplasia Treated With Interferon-alpha2b. Hyunjoo J. Lee, R. Dunphy, M. Daly, D. Sircrase-Lee. Ophthalmology, Boston Medical Center / Boston University School of Medicine, Boston, MA; Ophthalmology, ‘Optometry, ‘Veterans 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. Arundodoy Sar, H.M. Prentice, H. Weissbach, J.C. Blank. Integrative Biology Phd Program, Dept of Biology, ‘Charles E Schmid College of Medicine, ‘Center for Complex Systems & Brain Sci, ‘Florida Atlantic University, Boca Raton, FL; ‘Center For Cellular and Molecular Biology, Florida Atlantic University, Jupiter, FL.
Floridian A
Thursday, May 10, 2012, 1:15 PM-3:00 PM
Retinal Cell Biology / Genetics Group

559 AMD/Retinal Degeneration Models

Moderators: Martin-Paul G Agbaga and William A Beltran


6886 — 1:30 Acid Sphingomyelinase Deficiency Induces Age-related Degeneration In The Mouse Retina. Bill X. Wu, J. Fan, J.W. Jenkins, Y. Koutalos, R.K. Crouch, C.E. Crosson, M. Kono, Y.A. Hannun. 1Biochemistry and Molecular Biology, Medical University of South Carolina, Charleston, SC; 2Ophthalmology, Medical Univ of South Carolina, Charleston, SC.


6888 — 2:00 Canine Bestrophinopathies: Lesion Morphology and Molecular Pathology. Karina E. Giezewicz, A.V. Cideciyan, W.A. Beltran, B. Zangerl, J. Slavik, S. Iwabe, A. Boesze-Battaglia, R.F. Mullins, S.G. Jacobson. 1University of Pennsylvania, Philadelphia, PA; 2Division of Genetics & Visual Sciences, BCollege of Engineering, CCollege of Medicine, 3Ophthalmology, Mount Sinai School of Medicine, 1The Ohio State University, Columbus, OH; 2Dean A. McGee Eye Institute, 3Institute for Ophthalmic Research, University Eye Hospital, Tuebingen, Germany.

6889 — 2:15 Integration, Survival and Function of Transplanted RPE Stem Cells into Mouse Models of Geographic Atrophy. C Nathanial Roybal, S.S. Sarfare, C.X. Ruan, J. Hu, S. Habib, J. Kong, G. Fan, S. Nusinowitz, D. Bok, G.H. Travis. 1Jules Stein Eye Institute, 2Human Genetics, UCLA School of Medicine, Los Angeles, CA.

6890 — 2:30 STGD3 Mutant Exerts A Dominant Negative Effect On Evolv4 Enzymatic Activity During VLC-PUFA Biosynthesis. Sreemathi Logan, M-P. G Agbaga, M.D. Chai, R.S. Brush, R.E. Anderson. 1Cell Biology, 2Ophthalmology, 1University of Oklahoma HSC, Oklahoma City, OK; 2Dean A. McGee Eye Institute, Oklahoma City, OK.


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

560 Corneal Biomechanics III

Moderators: Jodhbir S Mehta and James V Jester

6892 — 1:15 Patient Specific Finite Element Cornea Model. David Varsano, R. Asher, E. Moisseiev, A. Gefen. 1Ophthalmology, Tel Aviv Medical Center, Tel Aviv, Israel; 2Sackler School of Medicine, 3Dept. of Biomedical Engineering, 4Tel Aviv University, Tel Aviv, Israel.

6893 — 1:30 Conservation of Arclength in Keratoconic and Normal Corneas with Air Puff Induced Deformation. Cynthia J. Roberts, A.M. Mahmoud, A. Slade, K. Sharalaya, J.A. Cristóbal, B. Calvo, F.J. Ascaso, L. Lavilla. 1University of Illinois at Chicago, Chicago, IL; 2Division of Genetics & Visual Sciences, BCollege of Engineering, CCollege of Medicine, 1The Ohio State University, Columbus, OH; 2Dean A. McGee Eye Institute, 3Institute for Ophthalmic Research, University Eye Hospital, Tuebingen, Germany.


6895 — 2:00 Numerical analysis of the influence of Intraocular Pressure on the photorefractive keratectomy for myopia correction. Maria A. del Buoy, E. Lanchares, J.A. Cristóbal, B. Calvo, F.J. Ascaso, L. Lavilla, C. Palomino, N. Cruz, P. Casas. 1Ophthalmology, 2College of Engineering, 3University of Illinois at Chicago, Chicago, IL.


6897 — 2:30 Quantification of Changes in Optical Properties of Corneas with Stress In Vitro. Ashutosh Richharita, V.S. Sangwan, S. Punjabi, G. Yoon, A. Fant, K. Rocha. 1Institute of Optics, 2University of Rochester, Rochester, NY; 3Cornea & Ocular Immunology, LV Prasad Eye Institute, Hyderabad, India; 4Mechanical Engineering, Uijjain Engineering College, Ujjjain, India.


Room 114
Thursday, May 10, 2012, 1:15 PM-3:00 PM
Immunology & Microbiology / Cornea / Retina / Retinal Cell Biology

561 Inflammatory Tissue Damage and Immunoregulation

Moderators: Justine R Smith and Henry J Kaplan

6899 — 1:15 Corneal Transplant Rejection In NIH Miniature Swine Is Associated With Donor-recipient Mismatches In A Region Containing The Homologue Of The Mouse Zfp106 Gene Encoding The H3a Antigen. Susan M. Nichols, L.K. Mitchell, R. Pong-Wong, R. Harley, A.D. Dick, A.L. Archibald, M. Bailey. 1Unit of Ophthalmology, School of Clinical Sciences, 2School of Veterinary Sciences, 3University of Bristol, Bristol, United Kingdom; 4Division of Genetics and Genomics, The Roslin Institute and R(D) SVS, University of Edinburgh, Edinburgh, United Kingdom.

6900 — 1:30 In Vivo Imaging Of T Cell Trafficking In Eyes During Spondyloarthritis. Ellen J. Lee, H. Kim, S.R. Planck, J.T. Rosenbaum, H.L. Rosenzweig. 1Casey Eye Institute, Oregon Health & Science Univ, Portland, OR; 2Ophthalmology, Inje University, Pusan, Republic of Korea.

6901 — 1:45 Ifn-γ Is Critical For Disease Pathogenesis In A Spontaneous Mouse Model Of Autoimmune Uveitis. Jun Chen, R. Horai, P. Silver, C-C. Chan, R. Caspi. Lab of Immunology, National Eye Inst/NIH, Bethesda, MD.
6902 — 2:00 Different Subsets Of Tumor-infiltrating Lymphocytes Correlate With Macrophage Influx And Monosomy 3 In Uveal Melanoma. Inge H. Bronkhorst, T. Vu, E.S. Jordanova, G.P. Layten, S.H. van der Burg, M.J. Jager. 1Ophthalmology, 2Pathology, 3Clinical Oncology, 4Leiden University Medical Center, Leiden, The Netherlands. *Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – © Travel Grant Awardee

6903 — 2:15 IL-6 Conditions Macrophage In Vitro and Retina In Vivo to Generate Soluble Flt-1 Expression and Inhibit Laser-induced CNV in Mice. Wei-Kang wu, L.B. Nicholson, A.D. Dick. 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 Yang, C. Wang, Y. Tian, Z. Ye, A. Kijlstra. 1Ophthalm, The 1st Hosp, Chongqing Medical University, Chongqing, China; 2Ophthalm, University Hospital Maastricht, Maastricht, The Netherlands.


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

6908 — 1:45 Genome-wide Identification Of Genes And MicroRNAs Regulated By Fgfl During In Vitro Lens Fibroblast Differentiation. Louise V. Wolf, C.C. Gao, K. Gueta, N. Podduturi, P.S. Zelenka, R. Ashery-Padan, J. Zavadi, A. Cvekl. 1Ophthalmology & Visual Sciences and Genetics, Albert Einstein College of Medicine, Bronx, NY; 2LMDP, NEI, Bethesda, MD; 3Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel; 4Langone Center, NYU, New York, NY.


6910 — 2:15 A Putative Role for Histamine Releasing Factor in Posterior Capsule Opacification. I.M. Wormstone, J.K. Kular, J.R. Reddan, L.J. Davies. 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 EPHA2 SAM Domain Mutations Alter Receptor Stability and Function. Jeong Eun Park, A.I. Son, R. Hua, X. Zhang, R. Zhou. 1Department of Chemical Biology, Susan Lehman-Cullman Laboratory for Cancer Research, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ; 2McKusick-Zhang Center for Genetic Medicine and State Key Laboratory of Medical Molecular Biology, Institute of Basic Medical Sciences, Chinese Academy of Medical Science & Peking Union Medical College, Beijing, China.

6912 — 2:45 Evaluation Of Doxorubicin Loaded Mepeg-pcl Nanoparticle For Prevention Of Posterior Capsular Opacification. Aditya Konar, R. Guha, S. Chowdhary, H. Palui. 1School of Biological Sciences, 2West Bengal University of Animal & Fishery Sciences, Kolkata, India; 3Dean, School of Medical Sciences, University of Hyderabad, Hyderabad, India; 4Eye Bank, Disha Eye Hospital, Barrackpore, India.

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

6914 — 1:30 What Information Does The Eye Send To The Brain? Recording The Entire Visual Output At A Single Retinal Location. Tom Baden, P. Berens, M. Bethge, T. Eierd. 1BCCN / CIN, 2BCCN / CIN / MPI, University of Tübingen, Tübingen, Germany.


6916 — 2:00 Nicotinic Block Reduces Direction Selectivity to Moving Gratings by Increasing Amplitude and Shifting Phase of Null Direction Excitation. Mikhail Y. Lipin, W.R. Taylor, R.G. Smith. 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 NMDA Receptor Expression In Identified Retinal Ganglion Cells Of The Mouse Retina. Ben Stafford, K.Y. Wong, J.B. Domb. 1Ophthalmology and Visual Sciences, University of Michigan, Ann Arbor, MI; 2Ophthalmology & Visual Sciences, Yale University, New Haven, CT.


1Department of Ophthalmology, New York University Medical Center, New York, NY; 2Ophthalmology, Vitreous Retina Macula Consultants of New York, New York, NY; 3Department of Ophthalmology, Vitreous Retina Macula Consultants of New York, New York, NY.

6923 — 2:00 Central and Peripheral Outer Nuclear Layer Thickness Differences between Myopes and Hyperopes/Emmetropes using Spectral Domain Optical Coherence Tomography. Christopher A. Clark1, A.E. Elsner2, T.Y. Chui2. 1School of Optometry, University of Indiana, Bloomington, IN; 2Optometry, Indiana University, Bloomington, IN; 3Optometry, Indiana University, Bloomington, IN.


1Ophthalmology, Istituto Clinico Humanitas, Milan, Italy; 2University of Molise, Campobasso, Italy; 3Ophthalmology, Second University of Naples, Naples, Italy; 4Ophthalmology, university of Ferrara, Ferrara, Italy; 5Ophthalmology, University of Brescia, Brescia, Italy.

6925 — 2:30 Peripheral Refraction During Accommodation In Children Treated By Orthokeratology. Zhi Chen, X. Zhou.

Orthokeratology & Visual Science, Fudan University EENT Hospital, Shanghai, China.

6926 — 2:45 Association of Paired Box 6 gene with High Myopia in Japanese. Masahiro Miyake1, K. Yamashiro1, H. Nakashima1, H. Hayashi1, I. Nakata1, Y. Akagi-Kurashige1, A. Tsujikawa1, K. Ohno-Matsui1, M. Mochizuki1, N. Yoshimura1.

1Department of Ophthalmology, Kyoto University Graduate School of Medicine, Kyoto, Japan; 2Department of Ophthalmology, Tokyo Medical and Dental University Graduate School of Medicine, Bunkyo-Ku, Japan.

Grand A

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

Retina

565 Macular Edema

Moderators: Frank G Holz and Edoardo Midera

6927 — 1:15 Bevacizumab for Macular Edema in Central Retinal Vein Occlusion: A prospective, randomized, double-blind clinical study. David L. Epstein1, P.Y. Algvere2, G.C. von Wendi1, A.P. Kwant1, A. Posterior Segment, St Erik Eye Hospital, Stockholm, Sweden; 2Ophthalamic Path and Oncol Svc, Karolinska Inst, St Eriks Eye Hosp, Stockholm, Sweden; 3Dept of Vitreoretinal Diseases, 4Ophthalmology, 5St Erik’s Eye Hospital, Stockholm, Sweden. *CR

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. Goldstein1, M. Waisbourd1, A. Barak1, A. Loewenstein3.

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 Aflibercept Injection for Macular Edema in Central Retinal Vein Occlusion: 1-year Results of the Phase 3 GALILEO Study. Frank G. Holz1, Y. Ogura2, J. Roeder1, J-F. Korobelnik1, B. Stemper1, R. Vitt1, A.J. Berlina1, F. Hiemeyer1, R. Sandbrink1.

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’Ophthalmology, Hopital Pellegrin, Bordeaux, France; 5GCD TA NOH1, *Bayer HealthCare, Berlin, Germany; 6Ophthalmology, Regenener, Tarzyny, NY; 7Bayer Health Care, Berlin, Germany; 8Global 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. Pellegrini1, M. Harasawa1, G.A. Carlos1, J.C. Souza1, T. Leite1, G.S. Pierozzi1, A.F. Bordon4.

1Retina, Hospital Oftalmologico de Sorocaba, Sorocaba, Brazil; 2Hospital Oftalmologico de Sorocaba, Indaiatuba, Brazil; 3Retina, Hospital de Olhos de Sorocaba, Sorocaba, Brazil; 4Ophthalmology UNIFESP-EPM, Federal Univ of Sao Paulo, Sao Paulo, Brazil.

6931 — 2:15 Clinical Classification of Autosomal Dominant Cystoid Macular Edema and Genetic Fine Mapping of the Underlying Defect. Nicole T. Saksen1,2, M.R. Duverati2, K. Neveling2, J.V. van Lith-Verhoeven1,2, M.A. van Driel1,3, P.P. Cremers3, A.I. Den Hollander1,2, C.C. Hoog1, 4Ophthalmology, 5Human Genetics, 6Radboud University Nijmegen Medical Center, Nijmegen, The Netherlands.

6932 — 2:30 Incidence Of Macular Edema (ME) In Fingolimod (FTY720) Multiple Sclerosis (MS) Clinical Program. Marco A. Zarbin1, A. Reder1, W. Collins1, G. Francis1, X. Zhang2, L.Y. Kappos1, J. Cohen. 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. Zaour3, M. Barbeau4, L. Hemsley2, R. Li1.

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 Yaping 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 Zhang1,2, P. Nair3, G. Beckles1, C-F. Chou2, L. Geiss1, A. Ryskulova3, J. Saaddine1.

1Inst. of Economics, Baltimore, MD; 2Kongwa Trachoma Project, Kongwa, Tanzania, United Republic of; 3CDC, Hyattsville, MD.

6935 — 1:30 Affordability of Cataract Surgery using the Big Mac Index. Jan C. Lansink1, M.J. Carter1, K.L. Windrop1, J.M. Furtado1. 1Agency for the Prevention of Blindness/VISION 2020, Weston, FL; 2Strategic Solutions, Inc, Cody, WY; 3Casey Eye Institute, Portland, OR; 4Casey 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, B. E. Munoz2, B. E. Munoz2, C. Gaydos1, T. Quinn1.

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 Zheng${}^{2,3}$, C-Y. Cheng${}^4$, E.L. Lamoureux, III${}^4$, P. Chiang${}^5$, A. Anuar${}^6$, T. Aung${}^7$, S-M. Saw${}^8$. Singapore Eye Research Institute, Singapore National Eye Centre, Singapore, Singapore; State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University, Guangzhou, China; Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; Ophthalmology, University of Melbourne, Melbourne, Australia; University of Toronto, Toronto, ON, Canada; 2University of Malaya, Kuala Lumpur, Malaysia; 3Saw Swee Hock School of Public Health, National University of Singapore, Singapore, Singapore; 4Centre for Eye Research Australia, University of Melbourne, Melbourne, Australia, Australia.


6940 – 2:45  Lack Of Government-insured Annual Eye Examinations Increases The Risk Of Vision Problems Amongst Low-income Elderly. Yaping Jin${}^1$, Y.M. Buys${}^1$, J. Xiong${}^2$, G.E. Trope${}^1$. 1Ophthalmology & Vision Sciences, University of Toronto, Toronto, ON, Canada; 2University of Waterloo, Waterloo, ON, Canada; 3Ophthalmology/Toronto 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. Joachim${}^1$, O.W. Gramlich${}^2$, P. Laspas${}^2$, S. Kuehn${}^2$, H.D. von Pein${}^2$, B. Dick${}^2$, F.H. Grus${}^3$. 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 Garmirii, J.V. 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. abber to Fiber Loss in Glaucoma. Deborah M. Wallace${}^1$, A.F. Clark${}^1$, N. Oliver${}^1$, J.K. Cream${}^8$, C.J. O’Brien${}^4$. 1School Medicine & Medical Science, School of Biomolecular & Biomedical Science, College Inst., University College Dublin, Dublin, Ireland; 2Dept. Of Ophthalmology, Mater Misericordiae University Hospital, Dublin, Ireland; 3Cell Biology & Anatomy, University of North Texas HSC, Fort Worth, TX; 4FibroGen Inc, San Francisco, CA; 5Ophthalmology, Mater Misericordiae Univ Hospital, Dublin, Ireland; 6School of Medicine and Medical Science, University College Dublin, Ireland. *CR

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

6946 — 2:30  Crossed Linked Actin Networks are Formed in Human Trabecular Meshwork Cells after treatment with Latrunculin B. Paul Russell${}^4$, K. Murphy${}^5$, J.A. Wood${}^4$, C.T. McKee${}^6$, C.J. Murphy${}^7$. 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. Crowston${}^1$, L. Sheek${}^2$, N.J. Van Bergen${}^3$, S. Lee${}^4$, V. Chrysostomou${}^5$, A.L. Vincent${}^6$, I.A. Trounce${}^7$. 1Department of Ophthalmology, Glaucoma Research Unit, Centre for Eye Research Australia, East Melbourne, Australia; 2Ophthalmology, University of Auckland, Auckland, New Zealand; 3Glaucoma Research Unit, Centre for Eye Research Australia, Melbourne, Australia; 4University of Melbourne, Centre for Eye Research Australia, Melbourne, Australia.

6948 — 1:15  Seeing With Subretinal Electrical Implants: Study in Ten Patients With Wireless Implant Alpha-IMS. Eberhart Zrenner${}^1$, K-U. Bartz-Schmidt${}^2$, F. Gekeler${}^3$, U. Greppmaier${}^4$, S. Hipp${}^5$, G. Hoerdtorfer${}^6$, C. Krenstock${}^6$, A. Kusnyerik${}^6$, H. Sachs${}^6$, K. Stingl${}^6$. 1Institute for Ophthalmic Research, Centre for Ophthalmology, Tuebingen, Germany; 2Retina Implant AG, Reutlingen, Germany; 3Mobility Training, Tuebingen, Germany; 4Sennelweiss University, Budapest, Hungary; 5Städtisches Klinikum Dresden-Friedrichstadt, Dresden, Germany. *CR

6949 — 1:30  Cortical Responses to Repetitive Electrical Stimulation of the Retina using Suprachoroidal Visual Prostheses. Sam E. John${}^1$, M.N. Shivdasani${}^2$, J.B. Fallon${}^3$, G. Rathbone${}^4$, C.E. Williams${}^1$. 1Bionics Institute/Latrobe University, East Melbourne, Australia; 2Bionics Institute, East Melbourne, Australia.

6950 — 1:45  Low Contrast Trip Hazard Avoidance using Simulated Prosthetic Vision. Chris McCarthy${}^1$, P. Lieby${}^2$, J.G. Walker${}^1$. 1Canberra Research Laboratory, NICATA, Canberra, Australia; 2Engineering, Australian National University, Canberra, Australia. *CR

6951 — 2:00  The influence of visual information on walking behaviour in the Graz Mobility Test. Thomas Georgi${}^1$, D. Ivastinovic${}^2$, M. Brandner${}^3$, R. Hornig${}^4$, M. Velkay-Parel${}^1$. 1Ophthalmology, Medical University of Graz, Graz, Austria; 2IM Intelligent Medical Implants GmbH, Bonn, Germany.

*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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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., L. da Cruz3, F. Hafezi4, F. Merlini5, B. Coley6, R.J. Greenberg7, 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. Dagnelie2, J-A. Sahel4, P.E. Stanga5, E. Filley6, D. Eliott7, J. Duncan8, R.J. Greenberg9, Argus II Study Group. 1Ophthalmology, Doheny Eye Institute - USC, Los Angeles, CA; 2Moorfields Eye Hospital, London, United Kingdom; 3Centre Hospitalier National d’Ophthalmologie des Quinze-Vingts, Paris, France; 4Manchester Royal Eye Hospital, Manchester, United Kingdom; 5Retina Foundation of the Southwest, Dallas, TX; 6Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 7University of California, San Francisco School of Medicine, San Francisco, CA; 8Second Sight Medical Products, Sylmar, CA. *CR,

An Eye-surface Conformable Retinal Prosthesis using Liquid Crystal Polymers. Joonsoo Jeong1A,1B, S. Lee2, K. Min3A,3B, S. Shin4A,4B, S. Bae5, J-M. Seo6, H. Chung7, S. Kim8A,8B, *Electrical Engineering & Computer Science, 1Inter-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.