Long-term Outcomes of Photorefractive Keratectomy for Low to High Myopia: Up to 19 Years of Follow-up

Vestergaard, Anders Højslet; Ivarsen, Anders; Hjortdal, Jesper; Grauslund, Jakob; Sjølie, Anne Katrin

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Thursday
May 10, 2012
<table>
<thead>
<tr>
<th>Room</th>
<th>8:30–10:15am</th>
<th>11:15am–1pm</th>
<th>1:15–3pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palm A</td>
<td>506 Innovative Approaches to Retinal Imaging [VI, MOI, RE] #5597-5603</td>
<td>537 New Directions for Bifocality, Multifocality and Restoration of Accommodation [VI] #6328-6334</td>
<td>564 Myopia IV: Clinics [AP] #6920-6926</td>
</tr>
<tr>
<td>Session Title</td>
<td>Program #</td>
<td>Board #</td>
<td></td>
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<tr>
<td>------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>512 Novel Imaging, Photoreceptors, Vasculature and Disease [VI, MOI,RE]</td>
<td>#5647-5683</td>
<td>(A43-A79)</td>
<td></td>
</tr>
<tr>
<td>513 Clinical Electrophysiology and Retinal Disease [VN]</td>
<td>#5684-5710</td>
<td>(A99-A125)</td>
<td></td>
</tr>
<tr>
<td>514 Visual Cortex and Brainstem Visual Centers [VN, VI]</td>
<td>#5711-5724</td>
<td>(A126-A139)</td>
<td></td>
</tr>
<tr>
<td>515 Visual Electrophysiology in Disease and Drug Toxicity [VN]</td>
<td>#5725-5737</td>
<td>(A140-A152)</td>
<td></td>
</tr>
<tr>
<td>516 Diabetic Retinopathy Epidemiology [CL]</td>
<td>#5738-5753</td>
<td>(A256-A271)</td>
<td></td>
</tr>
<tr>
<td>517 Vascular Mechanisms in Diabetic Retinopathy [RC, RE]</td>
<td>#5754-5783</td>
<td>(A272-A301)</td>
<td></td>
</tr>
<tr>
<td>518 Retinal Detachment II [RE]</td>
<td>#5784-5816</td>
<td>(A338-A370)</td>
<td></td>
</tr>
<tr>
<td>519 Laser/Choroidal Neovascularization/Retina-RPE Transplantation [RE]</td>
<td>#5817-5849</td>
<td>(A437-A469)</td>
<td></td>
</tr>
<tr>
<td>520 Retinopathy of Prematurity II [RE]</td>
<td>#5850-5892</td>
<td>(A470-A512)</td>
<td></td>
</tr>
<tr>
<td>521 Stem Cells In Vivo and In Vitro: Fates and Functional Outcomes [RC, NT]</td>
<td>#5893-5927</td>
<td>(A572-A606)</td>
<td></td>
</tr>
<tr>
<td>523 Corneal Endothelium [CO]</td>
<td>#5983-6027</td>
<td>(D804-D848)</td>
<td></td>
</tr>
<tr>
<td>524 Keratoplasty II (Eye Banking, Substrates, Penetrating and Lamellar Grafts, Keratoprosthesis) [CO]</td>
<td>#6028-6075</td>
<td>(D849-D896)</td>
<td></td>
</tr>
<tr>
<td>525 Contact Lens II (Basic Research) [CO]</td>
<td>#6076-6126</td>
<td>(D897-D947)</td>
<td></td>
</tr>
<tr>
<td>526 Cornea/Anterior Segment Infection and Inflammation I [IM, CO]</td>
<td>#6127-6161</td>
<td>(D987-D1021)</td>
<td></td>
</tr>
<tr>
<td>527 Cornea/Anterior Segment Infection and Inflammation II [IM, CO]</td>
<td>#6162-6191</td>
<td>(D1022-D1051)</td>
<td></td>
</tr>
<tr>
<td>528 Anti-Infectives and Ocular Disease [IM, CO,RE,RC,BI]</td>
<td>#6192-6217</td>
<td>(D1052-D1077)</td>
<td></td>
</tr>
<tr>
<td>529 AIDS-Related Ocular Disease [IM, RE,RC]</td>
<td>#6218-6227</td>
<td>(D1078-D1087)</td>
<td></td>
</tr>
<tr>
<td>530 Autoimmune Ocular Disease [IM, CO,RE,RC]</td>
<td>#6228-6256</td>
<td>(D1088-D1116)</td>
<td></td>
</tr>
<tr>
<td>531 Inflammation and Infection [PH]</td>
<td>#6257-6292</td>
<td>(D1117-D1152)</td>
<td></td>
</tr>
</tbody>
</table>

**Thursday, May 10  •  Posters**

<table>
<thead>
<tr>
<th>Session Title</th>
<th>Program #</th>
<th>Board #</th>
</tr>
</thead>
<tbody>
<tr>
<td>543 Color Vision [VI]</td>
<td>#6390-6408</td>
<td>(A80-A98)</td>
</tr>
<tr>
<td>544 Retinal Degeneration and Neuroprotection [RC]</td>
<td>#6409-6444</td>
<td>(A302-A337)</td>
</tr>
<tr>
<td>545 Retinitis Pigmentosa III [RE]</td>
<td>#6445-6462</td>
<td>(A371-A388)</td>
</tr>
<tr>
<td>546 AMD Disease Mechanisms II [BI]</td>
<td>#6463-6510</td>
<td>(A389-A436)</td>
</tr>
<tr>
<td>547 AMD Clinical Research VII [RE]</td>
<td>#6511-6537</td>
<td>(A513-A539)</td>
</tr>
<tr>
<td>548 Retina and RPE Cell Biology [RC, VN]</td>
<td>#6538-6569</td>
<td>(A540-A571)</td>
</tr>
<tr>
<td>550 Cataract Surgery I [LE]</td>
<td>#6618-6651</td>
<td>(A607-A640)</td>
</tr>
<tr>
<td>551 Cataract Surgery II [LE]</td>
<td>#6652-6680</td>
<td>(A641-A670)</td>
</tr>
<tr>
<td>552 Cataract Complications and Drugs [LE]</td>
<td>#6681-6709</td>
<td>(D701-D729)</td>
</tr>
<tr>
<td>553 Cataract Training, Modeling, Pediatrics [LE]</td>
<td>#6710-6742</td>
<td>(D730-D782)</td>
</tr>
<tr>
<td>554 Oculoplastics III [EY]</td>
<td>#6743-6760</td>
<td>(D763-D780)</td>
</tr>
<tr>
<td>555 Pediatric Ophthalmology [CL]</td>
<td>#6761-6783</td>
<td>(D781-D803)</td>
</tr>
<tr>
<td>556 Corneal Biomechanics II [CO]</td>
<td>#6784-6822</td>
<td>(D948-D986)</td>
</tr>
<tr>
<td>557 Blood Flow [PH]</td>
<td>#6823-6866</td>
<td>(D1153-D1196)</td>
</tr>
<tr>
<td>558 Tumors: New Drugs, Delivery Systems and Mechanisms of Action [PH]</td>
<td>#6867-6884</td>
<td>(D1197-D1214)</td>
</tr>
</tbody>
</table>

**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.
Floridian A

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

Retina

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 Énantiomorphism Of The Human Cornea Based On Corneal Topography 3D Atlas Analysis, Georges M. Durr1, E. Auvinet1,2, J.A. Ong1,2, M. Gilca2, M.E. Choronezy1, J. Meunier1,2, I. Brunette1,2. 1Maisonneuve–Rosemont Hospital Research Center, Montreal, QC, Canada; 2Computer Science and Operations Research, *Ophthalmology, University of Montreal, Montreal, QC, Canada.

5570 — 8:45 A Novel Approach To Determine Theoretical Head Tilt Effect On Ocular Cyclotorsion Measurements During Laser Refractive Surgery, Adam L. Prickett1, W. Chamoni1, K.M. Bu1, J. Hallak1, P. Bakhthiar1, D.T. Azar4. 1Ophthalmology, University of Illinois at Chicago, Chicago, IL; 2Ophthalmology, University of Illinois Chicago, Chicago, IL; 3Ophthalmology, University of Illinois Hospital, Chicago, IL; 4Baylor College of Medicine, Houston, TX.

5571 — 9:00 Long-term Outcomes Of Photorefractive Keratectomy For Low To High Myopia: Up To 19 Years Of Follow-up, Anders Vestergaard1, J. Grauslund1, A.K. Jolie1. 1Department of Ophthalmology, Odense University Hospital, Odense, Denmark; 2Ophthalmology, Aarhus University Hospital, Aarhus, Denmark.

5572 — 9:15 Incidence, Risk Factors, and Outcomes of LASIK Flap Striae Requiring Flap Re-Lift and Irrigation, Harmanjit Singh1, V. Gupta2, E. Adiguzel2, A. Wailerstein3, M. Cohen4, M. Harissi-Dagher5,6. 1Ophthalmology, University of Montreal, Montreal, QC, Canada; 2Ophthalmology, McMaster University, Hamilton, ON, Canada; 3LASIK MD, Montreal, QC, Canada; 4Ophthalmology, University of McGill, Montreal, QC, Canada; 5Ophthalmology, University of Sherbrooke, QC, Canada.


5574 — 9:45 Spherical Aberration change as a function of pupil size: a comparison between Small Incision Lenticule Extraction (SMILE) and non-linear aspheric LASIK in moderate to high myopia, Dan Z. Reinstein, T.J. Archer, M. Gobbe. London Vision Clinic, London, United Kingdom.*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, 🗣

Room 114

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

Physiology & Pharmacology

503 Gene Therapy and Delivery II

Moderators: Rajendra Kumar-Singh and Muna Naash

5576 — 8:30 A Comparative Evaluation Of Translational Read-through Inducing Drugs For Treatment Of Ush, Kerstin Nagel-Wulff1, T. Goldmann1, E. Möller1, N. Overlack1, V. Belakhov2, T. Baasov2, U. Wolfrum1. 1Cell and Matrix Biology, Johannes Gutenberg University of Mainz, Mainz, Germany; 2Institute of Anatomy, University of Mainz, Mainz, Germany; 3Edith and Joseph Fischer Enzyme Inhibitors Laboratory, Schillich Faculty of Chemistry, Technion-Israel Institute of Technology, Haifa, Israel.

5577 — 8:45 Gene Therapy For Choroideremia - Initial Report On A New Clinical Trial, Robert E. MacLaren1, M. Gropp1, A.R. Barnard1, T. Tolmachova1, M.J. During1, S.M. Downes2, A.J. Lotery1, G.C. Black3, A.R. Webster2. 1Baylor College of Medicine, Houston, TX; 2Institute of Ophthalmology, University of London, United Kingdom; 3Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom.

5578 — 9:00 Adenoviral and Lentiviral Vectors for Efficient Gene Transfer to Mouse Retina, Agostina Puppo1, G. Cesti1, D. Palmer3, P. Piccolo1, R.J. Parks1, P. Ng1, N. Brunetti-Pierri2, A. Auricchio1,2. 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; 3Dept. of Pediatrics, Medical Genetics, “Federico II” University, Naples, Italy.


5580 — 9:30 A Novel Method To Transfect Retinal Pigment Epithelial Cells Without Detaching The Retina, Francombe F. Behar-Cohen1,2, E. Touchard3, B. Marianne3, M. Savodelli1, M-C. Naud1, J-C. Jeanny1,2. 1Ophthalmology, Hotel Dieu de Paris, Université Paris Descartes, Paris, France; 2Physiopathologie oculaire diseases, 3Physiopathologie oculaire diseases, 3Inserm UMRS872, Paris, France.*CR

5581 — 9:45 Progeny Of Pronuclear Injections Of Mutant Human Mitochondrial Genes, Hong Ye1, T-H. Chou1, V. Porciatti2, W.W. Hauswirth1, V. Chiodo1, S.L. Boye3, J. Guy1. 1Ophthalmology, Bascom Palmer Eye Inst, Univ of Miami, Miami, FL; 2Bascom Palmer Eye Inst, Univ of Miami Miller Sch Med, Miami, FL; 3Ophthalmology, University of Florida, Gainesville, FL.

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

Room 305

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

Biochemistry & Molecular Biology

504 Retinal Biochemistry and Gene Expression

Moderators: Deborah Ferrington and Jerome E Roger

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. Oshevskaaya, S. Lim1, J.B. Ames2, A.M. Dizhoor3. 1Pennsylvania College of Optometry, Salus University, Elkins Park, PA; 2Department of Chemistry, University of California, Davis, CA.
5584 – 8:45 Alzheimer Retina Pathology in a Novel Animal Model of Neuropathology in Diabetics. Peter Frederiksen1, R. Kaswala1, W. Kleint1, C. Kastanath2. 1Pharmacology & Physiology, UMD New Jersey Medical School, Newark, NJ; 2Oral Biology, UMD New Jersey Dental School, Newark, NJ. *CR

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


5589 – 10:00 Tct1 is an Essential Epigenetic factor for Eye development. Stephen P. Sugrue1, G. Xu1, Y. Kato1, Y. Xu1, Y. Shi1. 1Anatomy & Cell Biology, University of Florida, Gainesville, FL; 2Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences, Shanghai, China; 3Department of Biomedical Sciences, Florida State University College of Medicine, Tallahassee, FL; 4Endocrinology Division, Brigham and Women's Hospital, Boston, MA.


5591 – 8:45 Glutaredoxin (Grx2) Gene Knockout Suppresses Fiber Cell Differentiation and Delays De-nucleation of the Mouse Lens. Marjorie F. Loi1,2, S. Basu1, Y. Yu1, H. Wu1, A. S. Menko1. 1Veterinary Medicine & Biomedical Sciences, University of Nebraska-Lincoln, Lincoln, NE; 2Department of Ophthalmology, University of Nebraska Medical Center, Omaha, NE; 3Pathology Anatomy & Cell Biology, Thomas Jefferson University, Philadelphia, PA.

5592 – 9:00 5603 – Thursday – Papers
5610 — 10:00 Pre-operative Visual Acuity and Contrast Sensitivity Deficits in Children with Small, Partial, or Non-Central Cataracts, Eileen E. Birch1, V. Subramanian1, C.S. Cheng1, D. Stager, Jr.2, Retina Foundation of the Southwest, Dallas, TX; 3Ophthalmology, UT Southwestern Medical Center, Dallas, TX; 4Pediatric Ophthalmology & Adult Strabismus, Plano, TX.

5616 — 9:45 Invasion of Lymphatic Vessels into the Eye after Open Globe Injury, Ludwig M. Heidtmann1, J.M. Wessel1, C. Hofmann-Rummelt2, G.O. Naumann1, F.E. Kruse1, C. Cursiefen2, 1Department of Ophthalmology, University of Cologne, Cologne, Germany; 2Department of Ophthalmology, University of Erlangen, Erlangen, Germany.

5617 — 10:00 Molecular Histopathology Using Gold Nanorods And Optical Coherence Tomography, Jared L. Matthews1, S. Prabhukar2, A. de la Zerda1, S. Gambhir3, R. Awdeh4, 1Bascom Palmer Eye Institute, Coral Gables, FL; 2Ophthalmology, Bascom Palmer Eye Institute, University of Miami, FL; 3Electrical Engineering and Radiology, 4Bioengineering & Materials Science and Engineering, Stanford University, Palo Alto, CA; 5Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.

Grand B
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Anatomy & Pathology
508 Tumors and Non-neoplastic Lesions: Expanding Frontiers from Histology to Molecular Histopathology and Gene Expression

Moderators: Hans E Grossniklaus, Jacob Pe’er and Deepak P Edward


5612 — 8:45 Multi-disciplinary Management Of Eyelid Merkel Cell Carcinoma, Qasem J. Nasser1A, A. Khan1, W. Morrison1, T. El-Sawy2, S. Frank3, A. Essawi4. 1Section of Ophthalmology, Department of Head and Neck Surgery, 2Department of Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX.

5613 — 9:00 Mir211 Is Dysregulated In Conjunctival Melanocytic proliferations, Alexandre P. Moulin1A, 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-1(lef-1) Gene Mutation and Its Differential mRNA Expression in Eyelid Sebaceous Carcinoma, Perumal Jayaraj1, S. Sen1, A. Sharma2, A. Kashyap3, A. Rai1, N. Pushker1, M.S. Bajaj1, 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. Leveau1, L.A. Wittenberg1, V.A. White2. 1Department of Ophthalmology & Visual Sciences, 2Department of Ophthalmology & Visual Sciences, Department of Pathology, University of British Columbia, Vancouver, BC, Canada.
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. DuK1, J.K. Torbit1, B.M. Sutton1, R. Malik1. School of Optometry, Indiana University, Bloomington, IN; 2Clinical Sciences, SUNY College of Optometry, New York, NY; 3SUNY Eye Institute, New York, NY; 4Glaucoma Research Unit, NIHR Biomedical Resrch Ctr for Ophthal, London, United Kingdom.


5624 – 10:00 Correlation of Brain Volumes and Functional Deficits in Glaucoma. Alice L. Williams1, J. Lackey1, S. Wizov2, S. Gatla1, R. Sergott1, T. Chia1, S. Lai1, G.L. Spaeth1. 1Temple University School of Medicine, Philadelphia, PA; 2Department of Radiology, Thomas Jefferson University, Philadelphia, PA; 3William A. and Anna V. Goldberg Glaucoma Service, 4Neuro-ophthalmology, Wills Eye Institute, Philadelphia, PA; 5Thomas Jefferson University School of Medicine, Philadelphia, PA.

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. Itsuake Murakami1, H. Matsumoto1, M. Roh2, J. Suzuki1, K. Takeuchi1, D. Mantopoulos1, T. Hisatomi1, Y. Ikeda1, J.W. Miller2, D. Vanvss2. 1Angiogenesis Laboratory, Massachusetts Eye and Ear Infirmary, Boston, MA; 2Ophthalmology, Kyushu University, Fukuoka, Japan.

5626 – 8:45 Successful Photoreceptor-Directed Gene Therapy with AAV2/5-hRPGR Reverses Post-Receptoral Remodeling in Canine Models of X-linked RP. Gustavo D. Aguirre1, A.V. Cideciyan1, A.S. Levi2, S. Iwabe1, H. Khami1, A. Swaroop1, 2W.W. Hauswirth1, S.G. Jacobson2, W.A. Beltran1. 1Clinical Studies, Univ of Penn Sch Veterinary Med, Philadelphia, PA; 2Dept of Ophthalmology, Scheie Eye Institute, Philadelphia, PA; 3Molecular Genetics & Microbio, 4Ophthalmology, University of Florida, Gainesville, FL; 5Ophthalmology, University of Massachusetts Medical School, Worcester, MA; 6N-NRL, Bldg 6, National Eye Institute, Bethesda, MD.

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 Monoctye-Derived Macrophages Through CCL2 Secretion And Rescued Vessel And Photoreceptor With Retinal Degeneration. Shinichi Fukuda1, M. Nagano1, T. Yamashita1, K. Kimura1, K. Akimoto1, I. Tsuboi1, S. Ueno3, M. Kondo1, T. Oshika1, O. Ohneda1. 1Ophthalmology, 2Regenerative Medicine and Stem Cell Biology, Tsukuba University, Tsukuba, Japan; 3Ophthalmology, Nagoya Univ School of Med, Nagoya, Japan; 4Ophthalmology, Mie University Graduate School of Medicine, Tsu, Japan.

5629 – 9:30 Phenotypic conservation in RPGR mutations. Kari E. Branham1, S. Zahid2, N.W. Khan1, M.I. Othman1, A. Moncrief1, P.A. Sieving2, A. Swaroop4, K. Jayasundera1, J.R. Heckenlively4. 1Ophthalmology and Visual Sciences, University of Michigan, Ann Arbor, MI; 2N-NRL, Bldg 6, 3National Eye Institute, Bethesda, MD.

5630 – 9:45 CRB2 and CRB1 in Retinal Development and Maintenance. Celso H. Alves1, L. Pellissier1, B. Park1, A. Sun3, S. Beck2, G. Huber2, N. Tanimoto1, M. Garrido2, F. Richard3, J. Wijnholds1. 1Neuromedical Genetics, Netherlands Inst for Neuroscience, Amsterdam, The Netherlands; 2Ocular Neurodegeneration Centre for Ophthalmology, Institute for Ophthalic Research, Tubingen, Germany; 3Ingénieur 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. Oishi2, N. Yoshimura1. 1Ophthalmology, Japanese Red Cross Wakayama Med Ctr, Wakayama, Japan; 2Ophthalmology, Kyoto University, Kyoto, 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
5632 — A28  Reported Decreases in Vision During and After Pregnancy in Women with Retinitis Pigmentosa. Pamela E. Jeter1, G. Daganie1, M. Khan1, A.K. Bittner1. 1Ophthalmology, Johns Hopkins University, Baltimore, MD; 2Civil Hospital Karachi, Karachi, Pakistan.

5633 — A29  Cataract, Visual Impairment, Blindness And Risk Of Mortality In Rural Population Of The Andhra Pradesh Eye Disease Study, India. Rohit C. Khanna1, G.V. Murthy1, S. Krishnaih1, H.B. Pan1, P. Girdhar1, C.E. Gilbert1, G.N. Rao1. 1Allen Foster Research Centre for Community Eye Health, LV Prasad Eye Institute, Hyderabad, India; 2International Centre for Eye Health, London School of Hygiene & Tropical Medicine, London, United Kingdom; 3Indian Institute of Public Health, Hyderabad, India.

5634 — A30  Determining National Vision Health Priorities: Healthy People 2020 Vision Objectives. Axel Ryskulova1, R. Janiszewski1, R. Hines1. 1Office of Analysis and Epidemiology, National Center for Health Statistics, CDC, Hyattsville, MD; 2National Eye Institute, National Institutes of Health, Bethesda, MD.

5635 — A31  Uncorrected refractive errors and ocular pathology found in outreach clinics in Malawi and Ethiopia. Rachel V. North2. 2Sch of Optom & Vision Sci, Cardi University, Cardiff, United Kingdom; 3Vision Aid Overseas, Crawley, United Kingdom.

5636 — A32  Ophthalmology Inpatient Consultations For Patients With Acute And Chronic Leukemia At A Boston Tertiary Care Hospital. Nancy Huynh1, H-Y. Chang2, S. Borboli-Gerogiannis. Ophthalmology, Massachusetts Eye & Ear Infirmary, Boston, MA.

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

5638 — A34  Danish Rural Eye Study (DRES): Preliminary Data on Visual Impairment in Randomly Selected Adults of Denmark. Tracy B. Hoeg1, B. Moldow1, H. Buch Hesgaard1, D. Erngaard1, K. Klempt1, M. La Cour1, C. Ellervik1. 1Ophthalmology, 2Clinical Biochemistry, 3Naestved Hospital, University of Copenhagen, Naestved, Denmark; 4Ophthalmology, Naestved Hospital, Naestved, Denmark; 5Ophthalmology, 6Glostrup Hospital, Glostrup, Denmark; 7Ophthalmology, Glostrup Hospital, University of Copenhagen, Glostrup, Denmark.

5639 — A35  A Comparison of Visuocortical Function in Premature Infants with Grade I/II and Grade III/IV Intraventricular Hemorrhage. William V. Good1, C. Hou1, A. Norcia1. 1Smith-Kettlewell Eye Research Institute, San Francisco, CA; 2Department of Psychology, Stanford University, Stanford, CA.

5640 — A36  The Prevalence and Causes of Visual Impairment and Blindness in a Multi-Ethnic Asian Population: The Singapore Epidemiology of Eye Disease (SEED) Study. Tien Y. Wong1,2, Y. Zheng1, W-L. Wong1, E.L. Lamoureux1, J.J. Wong1,2, P. Mitchell1, N. Cheung1, T. Au1,2, S. Saw1, C. Cheng1. 1Singapore Eye Research Institute, Singapore National Eye Centre, Singapore, Singapore; 2Centre for Eye Research Australia, University of Melbourne, Melbourne, Australia; 3Centre for Vision Research, University of Sydney, Sydney, Australia; 4Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 5Saw Swee Hock School of Public Health, National University of Singapore, Singapore, Singapore.

5641 — A37  Epidemiology of Chinese Patients in the Ophthalmology Clinic of a New York City Public Health Clinic. See H. Wong1, L.G. Chen1, C.C. Teng2. 1Ophthalmology, NYU School of Medicine, New York, NY; 2Einhorn Clinical Research Center, New York Eye and Ear Infirmary, New York, NY.

5642 — A38  Genetic Determinants of Serum Lutein and Zeaxanthin Levels in the Carotenoids in Age-Related Eye Disease Study. Chitra K. Karki1, S.K. Iyengar1, B. Truitt1, R.P. Igo1, J. Johnson1, L. Tinker1, K.J. Meyers1, J.A. Mares1. 1Ophthalmology and Visual Sciences, University of Wisconsin-Madison, Madison, WI; 2Epidemiology & Biostatistics, Case Western Reserve University, Cleveland, OH; 3Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA; 4Cancer Prevention Research Program, Fred Hutchinson Cancer Research Center, Seattle, WA.*CR


5644 — A40  Heritability Of Ocular Biometry Parameters Using Structural Equation Modeling In A Study Of Angle-closure Glaucoma. Robert Wojciechowski1, P.Y. Ramula1, S. Karthi1, P. Sandsaresan1, R. Jayanthy1, D.S. Friedman1, R. Venkatesh1. 1Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD; 2Ophthalmology, Wilmer Eye Institute/Johns Hopkins, Baltimore, MD; 3Aravind Eye Hospital, Pondicherry, India; 4Genetics, Aravind Med Res Foundation, Madurai, India.


5646 — A42  Rare Variant Analysis of Refractive Error in the AREDS Cohort. Joan E. Bailey-Wilson1, C.L. Simpson1, R. Wojciechowski2, C. Motter1, S. Smyczna1, D. Stambolian1. 1National Human Genome Research Inst, National Institutes of Health, Baltimore, MD; 2Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD; 3Ophthalmology-Stellar Chance Lab, University of Pennsylvania, Philadelphia, PA.


5653 — A49 Improved Retinal Blood Flow Analysis Method Using Abnormal Frame Information Automatically Detected From AOSLO Image Sequence. Hiroshi Imamura1, P. Fletcher2, K. Nazono2, S. Ueda1, A. Ujii1, N. Yoshimura1. 1Canon Inc, Tokyo, Japan; 2Canon Information Systems Research Australia, Sydney, Australia; *Ophthalmology, Kyoto University Graduate School of Medicine, Kyoto City, Japan. *CR

5654 — A50 Characterization of Diabetic Retinopathy Lesions Using Adaptive Optics Scanning Laser Ophthalmoscopy, Sonja G. Prager1, S.H. Radwan2, H. Kwak3, P.S. Silva1, S.A. Burns1, L.P. Aiello1, J.K. Sun1. 1Beetham Eye Institute, Joslin Diabetes Center/Harvard Medical School, Boston, MA; *Department of Ophthalmology and Optometry, Medical University Vienna, Vienna, Austria; *Ophthalmology, Cairo University, Cairo, Egypt; School of Optometry, Indiana University, Bloomington, IN.

5655 — A51 Structural analysis of small vessels in The Human Retina: an adaptive optics study. Michel Paques1, K. Nakashima2, F. Rossant3, J-A. Sahel1. 1Clinical Investigation Center 503, Quinze-Vingts Hospital, INSERM, Paris, France; *SEP, Paris, France; *UMR-S 968, Institut de la Vision, Paris, France. *CR

5656 — A52 New Features Of Diabetic Retinopathy Lesions Detected By Adaptive Optics Scanning, Toke Bek. Dept of Ophthalmology, Aarhus University Hospital, Aarhus C, Denmark.

5657 — A53 In Vivo Investigation of the Retinal Microscopy in Patients with Type 1 Diabetes Mellitus. Mariacristina Parravano1, M. Lombardo1, G. Lombardo1, B. Bocaccini2, S. Lioi1, M. Varano1. 1Ophthalmology, Fondazione GB Bietti-IRCCS, Rome, Italy; *CRN-IPCF Unit of Support Cosenza, LiCryL Laboratory, University of Calabria, Rende, Italy.

5658 — A54 Measurement Of Retinal Blood Flow In Diabetic Retinopathy Using Adaptive Optics Scanning Laser Ophthalmoscopy. Akibito Uji1, M. Hangai1, S. Ooto1, T. Murakami1, N. Yoshimura1, H. Imamura1, K. Nazono1. 1Ophthalmology, Kyoto Univ Graduate Sch of Med, Kyoto City, Japan; *Canon INC., Tokyo, Japan. *CR

5659 — A55 Adaptive Optics and SD OCT in Macular Telangiectasia Type 2. Alain Gaudric1, K. Nakashima2, V. Krivovitch3, N. Chateau4, J-A. Sahel5, M. Paques6. 1Ophthalmology, Lariboisiere Hospital University Paris 7, Paris, France; 2Ophthalmology, 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


5661 — A57 Effectiveness In Detecting Area Of Photoreceptor Disruption By Dioptic Adaptive Optics Scanning Laser Ophthalmoscopy (d-aoslo) With Wider Field Of View. Yoshiyuki Kitaguchi1, T. Fujikado1, H. Kand1, T. Morimoto1, T. Yamaguchi2, T. Mihashi1, K. Nishi1. 1Ophthalmology, Sumitomo hospital, Osaka, Japan; 2Applied Visual Science, Osaka University, Suita, Japan; Topcon Rearch Institute, Itabashi, Japan; *Ophthalmology, Osaka University, Osaka, Japan. *CR

5662 — A58 Foveal Microvasculature And Its Relationship To Retinal Thickness. Tocuo Y. Chui1, A.E. Elsner1, S.A. Burns1. 1Optometry, 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 Lombardo1, S. Serrao1, P. Ducoli1, G. Lombardo1. 1IRCCS Fondazione G.B. Bietti, Rome, Italy; *CRN-IPCF Unit of Support Cosenza, LiCryL Laboratory, University of Calabria, Rende, Italy.

5664 — A60 Distribution of Outer Nuclear Layer Thickness in SDOCT Images. Joel A. Papay1, C.A. Clark, T.Y. Chui1, L. Zhao1, A.E. Elsner2. 1Optometry, Indiana University, Bloomington, IN.

5665 — A61 Perifoveal Retinal Thickness and Temporal Contrast Sensitivity in Axial Myopia. Nancy J. Coletta1, Y. Pfliz1, A. Ciepiela1. 1Vision Science, New England College of Optometry, Boston, MA; *School of Optometry, University of California, Berkeley, CA.

5666 — A62 In vivo Imaging of Photoreceptor Loss Associated with Dry Age-Related Macular Degeneration Using Adaptive Optics Scanning Laser Ophthalmoscopy. Adam Boretsky1, F. Khan1, G. Burnett1, R. Harris2, M. Stephens2, M. Matome2, E.F. van Kuijk1. 1Department of Ophthalmology, 2Biophysics, 2Medical College of Wisconsin, Wauwatosa, WI; *Biomedical Engineering, Marquette University, Milwaukee, WI.


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

5669 — A65 The Repeatability of Photoreceptor Reflectance Changes in the Living Human Retina. Robert F. Cooper1, J. Rha2, A.M. Dubis2, A. Dubra2,1,2,3, J. Carroll2,3,1,2. 1Biomedical Engineering, Marquette University, Milwaukee, WI; *Ophthalmology, *Cell Biology, Neurobiology & Anatomy, *Biophysics, *Medical College of Wisconsin, Milwaukee, WI. *CR


5671 — A67 Retinal Structure and Visual Function in Patients with Blue Cone Monochromatism. Xinda Luo1, A.V. Cideciyan3, A. Samarok2, S.B. Schwartz1, J.A. Romari1, J.B. Goldberg1, B. Bauman2, B. Wissinger2, S. Koh2, S.G. Jacobson1. 1Department of Ophthalmology, Scheie Eye Institute, Philadelphia, PA; *Center for Ophthalmology, Institute for Ophthalmic Research, Molecular Genetics Laboratory, Tuizingen, Germany.

5672 — A68 Assessing the Relationship Between Cone Density and Foveal Morphology. Adam M. Dubis1, S.O. Hansen2, R.F. Cooper1, B.R. Hansen1, J. Carroll1,3,2,3,4. 1Cell Biology, Neurobiology and Anatomy, *Ophthalmology, *Medical College of Wisconsin, Wauwatosa, WI; *Biomedical Engineering, Marquette University, Milwaukee, WI.

5673 — A69 Disrupted RPE and intact photoreceptors observed in vivo with Fluorescence Adaptive Optics Scanning Laser Ophthalmoscopy years following accidental laser exposures in humans. Jennifer J. Hunter1,2,3, E.A. Rossi2, W. Fischer1, A. Dubra1,2,3, M.M. Chung1,2,3. 1Flaum Eye Institute, 2Center for Visual Science, *University of Rochester, Rochester, NY; *Ophthalmology, *Biophysics, *Medical College of Wisconsin, Milwaukee, WI.

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

5675 — A71 Fluorescence Adaptive Optics Scanning Laser Ophthalmoscopy Demonstrates Intraretinal Spots and Low Cone Density in Fundus Albinus, Hungry Song1,4, D.R. Williams1,2, L. Latchney1, A. Dubra2, M.M. Chung1,2,3. 1Center for Visual Science, *Institute of Optics, *Flaum Eye Institute, *University of Rochester, Rochester, NY; *Ophthalmology, Medical College of Wisconsin, Milwaukee, WI. *CR

5697 — A112 Focal Macular Electoretinogram Elicited By Hemicircular Stimuli In Eyes With Branch Retinal Vein Occlusion. Shunsuke Yasuda1, S. Ueno1, C-H. Piao1, M. Kondo2, H. Terasaki. 1Ophthalmology, Nagoya Univ Graduate Sch of Med, Nagoya, Japan; 2Ophthalmology, Mid.Univ Graduate Sch of Med, Tsu, Japan.


5699 — A114 Visual Impairment in Leber Hereditary Optic Neuropathy Carriers of the Same Pedigree. Aldina A. Reis1,2, C. Mateus3, E. Silva1,2, M. Castelo-Branco1. 1Visual Neuroscience Laboratory, IBILI-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-Circ. Stefanie B. Varghese1A, N. Naser1A, T.P. Than1B, C. Mateus1, E. Fisher1. 1College of Optometry, Nova Southeastern University, Plantation, FL; 2College of Optometry, University of Houston, Houston, TX.

5703 — A118 The Characteristics Of Cone-driven Oscillatory Potentials In Human Electoretinogram. 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 Electoretinograms Using A Chromatic-Achromatic Temporal Compound Stimulus. Neil R. Parry1, J.J. Murray1, A. Panourgias2, D.J. McKeefry1, B.B. Lee1, J.J. Kremer1. 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. Marr1, D.H. Abrams2. 1Ophthalmology, Mount Sinai School of Medicine, New York, NY; 2Ophthalmic Oncology, Memorial Sloan-Kettering Cancer Center, New York, NY.

5707 — A122 Reproducibility Of Visual Electrophysiology Recordings Between Laboratories: The Importance Of Regular Calibration. Richard P. Hagan1,2, K.J. Quinn1, L. Milner1,2, R.L. Robinson1,2, A.F. Tatak2, 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.


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

5710 — A125 Characterising Human L- and M-cone ERGs Using a Four Primary System. Declan J. McKeefry1, N.K. Challa2, I.J. Murray3, J.J. Kremer1. 1Optometry, 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. Nagy3, A. Magyar1, A. Farkas1, J. Nemeth1. 1Department of Ophthalmology, Semmelweis University, Budapest, Hungary; 2Experimental 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. Shi2, K.A. Godwin, P.J. Smith, III3, J.J. Kremers4. 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 Zebrafish. Peony 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. Sousa1,4, T.L. Costa1, B.D. Gomes1, L.C. Silveira1,4, D.F. Ventura1. 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 Pará, Belem, Brazil; 4Nucleo de Medicina Tropical, Universidade Federal do Pará, Belem, Brazil.

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

Thursday – Posters – 5718 – 5737


5719 — A134  A Short-Duration Visual Evoked Potential (VEP) Test Protocol. Vance M. Zemoni1, P.M. Weiner1, A. Harewood1, V. Nunez2, J-P. Michel1, S. Azigolshani1, J. Izrailova1, G. Hu1, P. Butler4, J. Gordon2. 1Ferkaur Grad School of Psychology, Yeshiva University, Bronx, NY; 2Psychology Department, Hunter College, New York, NY; 3VeriSci Corp., Raritan, NJ; 4Nathan Kline Institute for Psychiatric Research, Orangeburg, NY. CR

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

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


5723 — A138  Stimulus Timing-Dependent Synaptic Modification in Rat Visual Cortex Induced by Training Stimuli Paired with Poststimulus Subthreshold Depolarizations. Xuefeng Shi1,2, 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. Smith1,2, J. Mayo1,2, M.A. Sommer1, A. DiTomasso1. 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.

5725 — A140  Monitoring Of Patients On Hydroxychloroquine For At Least Five Years: A follow-up Of 21 Patients. Daniele Anna2, I. Ingster-Moati1, E. Albuissou1, C. Girard1, B. Delbosc1. 1Department of Ophthalmology, Orlean 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 Ruberto1, C. Tinelli1, P. Piccinni1, L. Bossoletti1, M. Raimondi1. 1Clinica Oculistica, Biometric Service, 1IRCCS Policlinico San Matteo, Pavia, Italy.


5728 — A143  Ganzfeld-electroretinogram In Patients With Coronary Heart Disease. Katja Goebel1, A. Reffker1, H. Drexler2, C. Erb1,2. 1Ophthalmology, Schloss Park Clinic, Berlin, Germany; 2Ophthalmology, Hannover Medical School, Hannover, Germany; 3Eye clinic, Wittenbergplatz, Berlin, Germany.

5729 — A144  Electrophysiology And Fluorescein And Indocyanine Green Angiography In Susac Syndrome. Julia M. Promeberger1, A.F. Alex1, I. Kleffner1, J-M. Dörr1, N. Eter1. 1Ophthalmology, University hospital of Muenster, Muenster, Germany; 2Neurology, University hospital of Berlin, Berlin, Germany.

5730 — A145  Flash Electroretinogram In Children With Mitochondrial Diseases. Frederic Nicot1, A. Bron2, C. Creuzot-Garcher1, F. Renaud1. 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. Kolawole4, R.M. Hansen2, A.B. Fulton3. 1Department of Ophthalmology, Childrens Hospital Boston, Boston, MA; 2Harvard Medical School, Boston, MA; 3Northeastern University, Boston, MA. 4Department of Ophthalmology, Children’s Hospital, 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. Wright1, C. Westall1. 1Institute of Medical Sciences, University of Toronto, Toronto, ON, Canada; 2Ophthalmology and Vision Sciences, Hospital for Sick Children, Toronto, ON, Canada. CR

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

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

5735 — A150  Effects of Nicotine on Processing in the Visual Pathways. Naser T. Naser1,2, V.M. Zemoni1, S.B. Varghese3, E.T. Keyser3, E. Hartmann1,2. 1Vision Science, Department of Opthometry, University of Alabama at Birmingham, Birmingham, AL; 2Ferkaur 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. Román Blanco1, C. Perez-Rico2, L. Rubio2, M. Roldan2, L. Ayuso2. 1Departamento de Oftalmologia, HUGU, Sescam /UAH, Spain; 2Departamento de Oftalmologia, Universidad Alcalá, UAH, Spain; 3Departamento de Neurologia, Hospital Principe de Asturias, Alcalá de Henares (Madrid), Spain; 4Departamento de Oftalmologia, Universidad de Alcalá, Alcalá de Henares (Madrid), Spain.


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5746 — A264 — An Edutainment Tool for Increased Compliance with DR Screening and Management, Part 2: Efficacy Study. Anne M. Edwards1, G. Zamora2, A. Matiella2, P. Soliz3. 1VisionQuest Biomedical LLC, Albuquerque, NM; 2The Fotonovela Production Company, Santa Fe, NM.*CR

5747 — A265 — Efficient Early Diagnosis of Diabetic Retinopathy using zero-dilation Scanning Laser Ophthalmoscopy. Dirk De Broe1,2, P. van Etten2,3, J. Martinez3, M. Mensink1. 1Ophthalmology, Centre for Vision Research, Sydney, Australia; 2Department of Ophthalmology, Doheny Eye Institute, Los Angeles, CA; 3Outcomes Insights, Westlake Village, CA.

5748 — A266 — Diabetes and Diabetic Retinopathy in an Australian Cardiac Population: the Australian Heart Eye Study. Adam J. Plant1,2, G. Barts Antony, J. Chihia1, A. Thiagalingam1, P. Koowor1, 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 Grauslund1, J.V. Laurson1,2, S.S. Hoffmann1,2, A. Green1, M. Nybo1, A. Spolje1,2. 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, J. Hall2, J. Talwar1, T.W. Gardner1. 1Ophthalmology, Centre for Vision Research, Wills Eye Hospital, Philadelphia, PA; 2National Eye Institute, National Institutes of Health, Bethesda, MD; 3Medical Retina Unit, Centre for Eye Research Australia, Melbourne, Australia.

5751 — A269 — Risk Factors for Prevalence, Incidence and Progression of Diabetic Retinopathy Among Non-insulin Dependent Diabetics in Taiwan. Shwa-Juan Sheu1,2, W-L. Ho1,2, J-Y. Lin1,2, N-C. Liu1, S-C. Chen1, Y-H. Hong2, H-C. Lam3. 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. Vaideanu3, 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. Talwar1, J.W. Gardner2, J.S. Wrobel3, J.D. Stein4. 1Ophthalmology and Visual Sciences, 2Internal Medicine, 3University of Michigan, Ann Arbor, MI.

Hall B/C — A272-A301

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

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. Radlakrishnan1. 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. Atsuhiko 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.


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Hall B/C — A272-A301

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

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. Radlakrishnan1. 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. Atsuhiko 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.


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Hall B/C — A272-A301

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

517 Vascular Mechanisms in Diabetic Retinopathy

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5754 — A272 — Fractal-Based Oscillation of Venous Density Within the Macula During Progression of Diabetic Retinopathy. Patricia A. Parsons-Wingerter1, K. Radlakrishnan1. 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. Atsuhiko 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.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures   -   Refer to Program Number in the Clinical Trial (CT) Registration Index   -   Travel Grant Awardees
Thursday – Posters – 5758 – 5781


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

5760 – A278 Role of Nrf2 in the regulation of diabetic retinopathy. Junsoon Gong1, Z. Xu1, Y. Wei1, H. Huang1, C. Eberhart1, R. Thimmulappa2, S. Biswal3, E.J. Duh1. Wilmer 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, C. Adamsson1. Ophthalmology, Aarhus University Hospital, Aarhus C, Denmark; 2Department of Ophthalmology, University of Iceland/Landspitali, University Hospital, Reykjavik, Iceland.

5762 – A280 Thioredoxin Interacting Protein Is Required For S-glutathionylation And Redox Regulation Of VEGF Angiogenic Signal. Mohammed A. Abdelsaid1, A.B. El-Remessy1,2. Clin & Experimental Therapeutics, University of Georgia, Augusta, GA; 2Georgia Health Sciences University, Augusta, GA; 3Pharmacology & Toxicology, Medical College of Wisconsin, Milwaukee, WI.

5763 – A281 Polymamines Contribute To Diabetic Retinal Edema. Bruce A. Berkowitz1,2, L. Hawel, III2, C. Byus1, D.P. Bissig1,3, R. Roberts1,2. Anatomy/Cell Biol & Ophthalmal, Wayne State Univ Sch of Med, Detroit, MI; 2University of California, Riverside, Riverside, CA; 3Anatomy and Cell Biology, Wayne State Univ School of Med, Detroit, MI.

5764 – A282 Overexpression of IL-1 Receptor Antagonist in the Retinopathy in Retina by mediated Gene Transfer Prevents Capillary Loss in Experimental Diabetest. Chiara Gerhardinger1,2, Y. Liu1,2, Z. Dagher1. Scheepens Eye Research Institute Massachusetts Eye and Ear, Boston, MA; 2Harvard Medical School, Boston, MA.

5765 – A283 Lipoprotein-associated Phospholipase Inhibition Regulates Retinal Vasoproliferation During Experimental Diabetes. Alan W. Stitt1, P. Canning1, P.J. Luther1, J.V. Glenn1, L-D Allen1, V. Prise1, P.S. Adamson1. Centre 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 Thioredoxin Interacting Protein (TXNIP). Islam N. Mohamed1,2, S. Hafez1,2, M. Abdelsaid1,2, S. Matroon1,2, B. Pillai1,2, A. Ergul1,2, J.D. Imig1,2, A.B. El-Remessy1,2. Classical and Experimental Therapeutics, University of Georgia, Augusta, GA; 2Vision Discovery Institute, Physiology, Georgia Health Sciences University, Augusta, GA; 3Pharmacology and Toxicology, Medical College of Wisconsin, Milwaukee, WI.


5768 – A286 Chemokine Mediated Monocyte Trafficking into the Retina: Role of Inflammation in Diabetic Retinopathy. Arup Das1, S. Rangasamy1, P. McGuire1. *MSC10-5610 Surgery, 2Cell Biology & Physiology, Univ of New Mexico Sch of Med, Albuquerque, NM.

5769 – A287 Neural And Vascular Gene Expression Changes In The Diabetic Rat Retina. Jennifer C. Lau1A, R.A. Linsenmeier1B, J.R. Moskal1C, R.A. Kroes1C. 1Department of Ophthalmology, Kyushu University, Fukuoka, Japan; 2Ophthalmology, Fukuoka University Hospital, Fukuoka, Japan; 2Pathology, Fukuoka University Hospital, Fukuoka, Japan.

5770 – A288 Overexpression of ProNGF Induces Apoptosis and Acellular Capillary Formation Via Activation of P75NTR, Azza B. El-Remessy1,2, M.M. Al-Ghayyar1, S. Matroon1,2, H. Saragovi1. Clinic & 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. 1Chemical & Biological Engineering, 2Integrative Physiology, University of Michigan, Ann Arbor, MI; 3Ophthalmology & Visual Sciences, BMolecular & Integrative Physiology, University of Michigan, Ann Arbor, MI.

5772 – A290 FD-induced Retinal Endothelial Mesenchymal Transition in Human Diabetic Epiretinal Fibrosis. Ray Gariano1, L.L. Zheng1. Ophthalmology, Scripps Clinic, La Jolla, CA; 2Ophthalmology, Stanford University School of Medicine, Palo Alto, CA.

5773 – A291 Similarities and differences of Bevacizumab and Ranibizumab in microvascular retinal endothelial cells. Gabrielle 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. Zheng1. Ophthalmology, Scripps Clinic, La Jolla, CA; 2Ophthalmology, Stanford University School of Medicine, Palo Alto, CA.


5776 – A294 VEGF-B Prevents Tight Junctional Re-organisation In Retinal Pigmented Epithelial Cells Induced by VEGF (N.D. Bainsbridge1, J.W. Bainbridge1, D.O. Bates1. School of Physiology and Pharmacology, University of Bristol, Bristol, United Kingdom; 2UCL Institute of Ophthalmology, London, United Kingdom. *CR


5778 – A296 VEGF-B Prevents Tight Junctional Re-organisation In Retinal Pigmented Epithelial Cells Induced by VEGF (N.D. Bainsbridge1, J.W. Bainbridge1, D.O. Bates1. School of Physiology and Pharmacology, University of Bristol, Bristol, United Kingdom; 2UCL Institute of Ophthalmology, London, United Kingdom. *CR


5781 – A299 Adult Endothelial Progenitor Cell Populations: Functional Differences in Diabetic Retinopathy. Sergio Caballero, Jr1, S. Hazrd2, A. Bhatwadekar3, S. Li Calzi2, L.J. Paradisio2, L. Miller2, T.S. Kroell1, M.B. Grant1. 1Pharmacology & Therapeutics, University of Florida, Gainesville, FL; 2America Stem Cell, Inc., Helotes, TX; 3Department of Medicine, Case Western Reserve University, Cleveland, OH. *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

359
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. Bhatwadekar1, P. Hu2, S. Hazra3, S. Caballero1, S. Mohr2, S.F. Abcouver1, D.R. Saban1, T. Chan-Ling1, J.V. Busik1.1Pharmacology and Therapeutics, University of Florida, Gainesville, FL; 2Department of Anatomoy, University of Sydney, Camperdown, Australia; 3Department of Physiology, 1Physiology, 1Michigan State University, East Lansing, MI; 2Ophthalmology & Visual Science, Univ of Michigan Kellog Eye Ctr, Ann Arbor, MI; 3Anatomy, University of Sydney, Sydney, Australia.

5783 — A301 Caspase-14: A Novel Caspase with Potential Role in Diabetic Retinopathy. Sylvia Megyerd1, S. Ahmad1, S. Hsu2, Z. Gure1, E.S. Shin3, N. Sheibani4, M. Al-Shabrawey5,4,6.1Oral 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

5784 — A338 Primary Repair of Rhegmatogenous Retinal Detachment with 23-Gauge Transconjunctival Vitrectomy. Ricardo Valdes1, O. Ramirez2, F. Ochoa3, J. Trujillo1.1Clínica Ver Bien, Pereira, Risaralda, Colombia; 2Clínica Ver Bien, Armenia, Quindío, Colombia.


5786 — A340 The Outcome of vitrectomy for chronic diabetic tractional retinal detachment. Muneeza A. Abunajma1, H.N. Al-Shamsi2, H. Al-Dhibi3, N.G. Ghazi2.1Ophthalmology Residency Program, King Saud University, Riyadh, Saudi Arabia; 2Vitreoretina, 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. Gomez2, H.V. Pasos3, A. Baptista1.1Ophthalmology, Suel Abujama Institute, Sao Paulo, Brazil; 2Ophthalmology, University of Sao Paulo, Sao Paulo, Brazil.


5791 — A345 Tramcinolone-assisted Intravitreal Limiting Membrane Peeling During Primary Rhegmatogenous Retinal Detachment Repair Reduces Postoperative Macular Pucker Formation. Rajesh C. Rao1, K.J. Blinder2, G.K. Shah3.1Ophthalmology 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 Stappler1, L. Konstantinidis2, D.S. Wong3.1St Paul’s Eye Unit, Royal Liverpool University Hospital, Liverpool, United Kingdom; 2The Eye Institute, The University of Hong Kong, Hong Kong.

5793 — A347 Air as Tamponade for Retinal Detachments. Aranzazu Mateo Montoya1, M.D. de Smet2.1Clinique de Montchoisi, Lausanne, Switzerland; 2Ophthalmology, Clinique de Montchoisi, Lausanne, 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 Lincolfrules. Ulrich Thelen1, H. Gerding2.1Private Practice, Munster, Germany; 2Clinic Pallas, Olten, Switzerland.

5796 — A350 Retinal Detachment from Guttering also a Problem after Vitrectomy. Milad Hakimbash1, P. Amini2, A. Khadiri1, M.H. Goldbaum1.1Ophthalmology, Univ of California, San Diego, La Jolla, CA; 2Ophthalmology, Univ of California-San Diego, La Jolla, CA.

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

5798 — A352 The Effect Of Retinal Detachment On Retinal Oxgenation. Alexander Kynnel, P.P. S. Traustason1, J. Hajari1, J. Kiilgaard1, E. Stefansson1, M. La cour1.1Ophthalmology, Glostrup University Hospital, Glostrup, Denmark; 2Department of Ophthalmology, Landsdalpi University Hospital, Reykjavik, Iceland.

5799 — A353 Pockets of Subretinal Fluid after Retinal Reattachment Surgery: New Insights with SD-OCT. John B. Miller1, R.C. Rao2, N. Choudhury3, D.M. Wu1, G.K. Shah4, D. Vavvas1, S. Mukai1, D. Etiotti1.1Harvard 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. Oltos, A.A. Fawzi. Ophthalmology, Doheny Eye Institute, Keck School of Medicine, University of Southern Ca, CA.


5804 — A358 Autofluorescence Image Intensity Segmentation And Analysis Of Macular Geometry Indices Against Micropereometry And SDOCT Ultra Structural Findings In Patients With Successfully Repaired Rhegmatogenous Retinal Detachments. Marco F. Vieira1, M. Falcão2, P. Brito1, A. Sousa1, P. Faria1, N. Gomes1, E. Brandão1, F. Falcão-Reis1.1Ophthalmology, Hospital S Joao Porto, Porto, Portugal; 2Ophthalmology, Hospital S Joao Porto, Porto, Portugal.

5806 — A360 Retinal Cell Layer Measurements in Patients After Successful Macula-off Retinal Detachment Repair and in Healthy Controls using a new OCT Sub-segmentation Algorithm. Marcel N. Menke1, J.H. Koval1, P. Dufour2, 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. Shinoda1, H. Matsumoto1, T. Kondo1, A. Mizota1. 1Ophthalmology, Teikyo University School of Medicine, Tokyo, Japan; 2Ophthalmology, Teikyo University, Itabashi-ku, Japan; 3Matsumoto Eye Clinic, Takushima, 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. Genevois1, G. Brasseur2, S. Milazzo2, M. Maruine2. 1Ophthalmology, Amiens University Hospital, Amiens, France; 2Ophthalmology, Rouen 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, A. Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia; 2Singh, B. K. Gorukanti1B, M. McClements1, R. Scott1, R.E. MacLaren1. 1Ophthalmology, Saint Louis University Eye Institute, Saint Louis, MO; 2Ophthalmology, University Of California San Diego, La Jolla, CA; 3Ophthalmology, University Of West Virginia, Morgantown, WV.

5812 — A366 Retinal Detachment In Coats Disease In Infants. Emmanuel L. Bit Quoc1, G. Dethorey1, E. Costantini1, J. Jostegg-Moati1. 1Ophthalmology, Hospital Robert Debre, Montrouge, France; 2Service 5, CHNO des 15-20, Paris, France; 3Ophthalmology, Univ Paris 7 Diderot, Hopital Necker, Paris, France.

5813 — A367 Use of Silicone Oil for Complex Retinal Detachment in Pediatric Population. Krishnapriya kalum1, P. Emani1, D. Shah1, K. Gorokanti1, M.A. Zarbin1, N. Bhagat1. 1Ophthalmology, Robert Wood Johnson Medical School, Piscataway, NJ; 2Ophthalmology, New Jersey Medical School, Newark, NJ; 3Ophthalmology & Visual Science, UMDNJ-New Jersey Medical School, Newark, NJ; 4Ophthalmology, IOVS-New Jersey Med School, Newark, NJ.


Hall B/C A437-A469

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

519 Laser/Choroidal Neovascularization/Retina-RPE Transplantation

Moderators: Lihteh 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. Harbert1. 1Air Force Research Laboratory, Fort Huachuca, AZ; 2Ophthalmology, Oregon Health and Science University, Portland, OR; 3Optical Coherence Imaging (AO-SLO) and Spectral Domain Optical Coherence Imaging (AO-SLOCT) Laboratory, Air Force Research Laboratory, Fort Hood, TX; 4Biomedical Engineering, The University of Texas at Austin, Austin, TX.


5821 — A441 Development Of A Simulated Model For Battlefield Retinal Laser Injury. Sher A. Aslam1, M. Singh2, P. Charbel Issa2, W. Davies3, M. McClements4, 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. Chhablani2, G. Bartcelli3, 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, UCSD Jacobs Retina Center, La Jolla, CA. *CR

5824 — A444 Nd-yag Laser Arteriotomy 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 Inmunoproteasome on the Laser-Induced Chorioretinal Neovascular Model in Mice. Justin C. Koh1, A.A. Rageh1, D.A. Ferrington1, S.R. Montezuma1. 1Ophthalmology, University of Minnesota, Minneapolis, MN.

5826 — A446 Impact of Endothelial-specific NFκ-B Signaling on Choroidal Neovascularization. Sosaka Zandi1, S. Nakao1, D. Sun1, R. Schmidt-Ullrich1, 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. Kamei2, H. Kidoya2, H. Naito2, N. Matsunaru1, M. Suzuki1, H. Sakaguchi1, N. Takakura2, K. Nishida2. 1Ophthalmology, Osaka University Graduate School of Medicine, Suita, Japan; 2Signal Transduction, Research Institute for Microbial Diseases, Osaka University, Suita, Japan.
5828 — A448 Implication of GPs4 in Choroidal Neovascularization. Murilo F. Roggia\dagger, T. Ueta\dagger, I. Hirotaka, T. Inoue\dagger, Y. Tamaki\dagger, Y. Yang\dagger.
\daggerOphthalmology, University of Tokyo, Tokyo, Japan; \daggerPharmaceutical Sciences, Kitasato University, Tokyo, Japan.

5829 — A449 Different Mechanisms in Regulation of Laser Induced CNV by Arresten. Sudhakar A. Yakkanti1, V. Gunda2, R.K. Verma2, C.S. Boosani3. *Genetics' Retinal Cell Signaling, Boys Town Nati Res Hospital, Omaha, NE; *Genetics, Boys Town Nt\'1 Research Hosp, Omaha, NE.

5830 — A450 Topical NPD1 Promotes Microglia Ramification in Experimental CNV. Kristopher G. Sheets1A, W.C. Gordon1B, N.G. Zhang1.

5831 — A451 Selective Cre/lox Fli-1 Ablation In RPE Induces CNV: A Novel Transgenic Murine CNV Model. Ling Lau1, T. Olsen1, X. Zhang, S. Dus1, H. Ichihara, N. Singh1, T. Miya2, B. Archer1, Y.Z. Le1, B.K. Ambati1. *Moran Eye Center, Salt Lake City, UT; *Department of Ophthalmology, The 306th Hospital of PLA, Beijing, China; *Department of Medicine and Harold Hamm Oklahoma Diabetes Center, University of Oklahoma Health Sciences Center, Oklahoma City, OK.


5835 — A455 Long Term Results of Photodynamic Therapy in Patients with Age Related Macular Degeneration. Anj Chawla1, J.T. Thompson1, R.J. Stargard1. *Ophthalmology, University of Maryland, Baltimore, MD; *Ophthalmology, Retina Specialist, Baltimore, MD. *CR

5836 — A456 Functional Recovery After Experimental RPE Debridement, mERG Studies in a Porcine Model. Jens F. Kijlstra3, N. Suresh1, M.V. Khor1, N. Lassous1, J.U. Prasse2, M.D. de la Cour1. *Dept of Ophthalmology, Rigshospitalet, Copenhagen, Denmark; *Dept. of Ophthalmology, Glostrup Copenhagen Univ. Hospital, Glostrup, Denmark; *Eye Pathology Inst, Copenhagen University, Copenhagen, Denmark.

5837 — A457 RPE Tears: In a silico Perspective. Garth G. Whelan, A. Shirinifard, J.A. Glazier. Physics, Biocomplexity Institute, Bloomington, IN.

5838 — A458 Transplantation of Human ESC-derived RPE into Rodent Models of Retinal Degeneration. Madalena Carido1, Y. Zhu, T. Visker2, T. Munch3, E. Tanaka1, M. Ader.1 Center for Regenerative Therapies Dresden, Dresden, Germany; 2Werner Reichardt Center for Integrative Neurosciences, Tubingen, Germany.


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, Y. Xu1, A. Bachuksa1, A.C. Lo2,3, W.W. Lu2,3. *Eye Institute, Research Centre of Heart, Brain, Hormone and Healthy Aging, University of Hong Kong, Hong Kong; Hong Kong Eye and Vision Science, University of Liverpool, Liverpool, United Kingdom; *Mawson Institute and School of Advanced Manufacturing, University of South Australia, Mawson Lakes, Australia.

5841 — A461 Cell-based Therapy In A Mouse Model Of Leber Congenital Amaurosis. Yi-Sheng Chang1, W. McIntosh Ambrose1, C. Lin1, H. Qian1, T. Li1, T. Cogliati1, A. Swareo1, *National Eye Institute, National Institutes of Health, Bethesda, MD; *Department of Ophthalmology, National Cheng Kung University, Taiwan, Taiwan.


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. Braaf2, M.G. Cereda2, J.C. van Meurs3, J.F. de Boer4. *The Rotterdam Eye Hospital, Rotterdam, The Netherlands; Rotterdam Ophthalmic Institute, Rotterdam, The Netherlands; *Erasmus MC, University Medical Center, Rotterdam, The Netherlands; *Institute 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. Lee, H.E. Jones1, B. Ahmed, I.M. Andolina1, P.M. Munro1, K.L. Grieve1, G.W. Ayland2, A.M. Sillito1, R.E. MacLaren2. *University of Oxford & Oxford Eye Hospital NIHR Biomedical Research Centre, Oxford, United Kingdom; *UCL Institute of Ophthalmology & Moorfields Eye Hospital NIHR Biomedical Research Centre, London, United Kingdom; *Faculty of Life Sciences, University of Manchester, Manchester, United Kingdom.
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. Je1, I. Yun2. 1Ophthalmology, Haemundae Paik Hospital, Inje University, Busan, Republic of Korea; 2Ophthalmology, GM St. Mary’s Eye Center, Busan, Republic of Korea.

5852 — A472 Late Occurrence of Narrow Angles and Angle Closure Glaucoma in Patients with Treated Retinopathy of Prematurity. Paul Baci1, T.N. Szymarek2, C.S. Zeitelbaum3, W.W. Merriam4, S.W. Merriam5, J.S. Weisser, J.D. Stein1, S.M. Archer2, S.E. Mori2. 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. Hiroki Kaneko1, C. Fujikawa1, 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. Leffler2, E.E. Birch1. 1Retina Foundation of the Southwest, Dallas, TX; 2Children’s Eye Care of North Texas, Plano, TX.

5855 — A475 Anti-VEGF InROP Treatment - 5.5 Years Of Experience. Susana M. teixeira1,2,3, C.M. Santos1,2, F.C. Silva1,2, G. Pires3, R. Barros2,4. 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. Schoonenwoolf, J.J. Fromow-Guerra1, V. Morales-Cantón1, G. Garcia-Aguire1, H. Quiroz-Mercado1, M.A. Martinez-Castellanos5. 1Retina, Asociacion Para Evitar la Ceguera en Mexico, Mexico City, Mexico; 2Retina, Asoc Para Evitar la Ceguera en Mexico, Mexico, Mexico; 3Retina, Association Para Evitar la Ceguera, Mexico City, Mexico; 4Retina, Assoc Para Evitar la Ceguera, Mexico, Mexico; 5Retina, 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. Lepore2, F. Mollen1, P. Papacci3, C. Giannantonio3, V. Purcaro4, L. Orazi4, P. Perrini4, A. Molisso5, C. Romagnoli5. 1Pediatrics, Catholic University of the Sacred Heart, Rome, Italy.


5861 — A481 Fluorescein angiographic findings in spontaneously-regressing stage 1 or 2 retinopathy of prematurity. Andrea Portilla Demichelis1, F. Schoonenwolff, M.F. Chiang2, R. Bollens3, W. Winninghoff4, J. Hernandez-Vargas5, V. Morales-Cantón1, M. Martinez Castellanos1, A.I. Ortiz6. 1Asociación para Evitar la Ceguera en Mexico, IAP, Col. Barrio San Lucas, Coyoacan, Mexico; 2Retina, Assoc 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, Assoc Para Evitar la Ceguera, Mexico, Mexico; 6Retina-Col San Lucas Coyoacan, APEC, Mexico City, Mexico.

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

5863 — A483 Fluorescein Angiography Macular Abnormalities Assessed by Optical Coherence Tomography in Retinopathy of Prematurity. Fernando Schoonenwolff1, V.E. Giordano2, V. Morales-Cantón2, R.V. Chu3, H. Quiroz-Mercado1, M.A. Martinez-Castellanos1. 1Retina, Asociacion Para Evitar la Ceguera en Mexico, Mexico, Mexico; 2Retina, Asoc Para Evitar la Ceguera en Mexico, Mexico, Mexico; 3Retina, Assoc Para Evitar la Ceguera, Mexico, Mexico, Mexico; 4Ophthalmology, Well 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. Scuderii1, A. Longo3, L.M. Franco1, A. Russo2, F. Munno3, V. Villari4, A. Cantavenera1, M. Reibaldi5. 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. Atae-Cansizoglu1, S. You3, D. Erdogmus1, M.F. Chiang1,2,4,5. 1Ophthalmology, 2Medical Informatics, 3Oregon Health & Science University, Portland, OR; 4Radiology, Massachusetts General Hospital, Boston, MA; 5Electrical and Computer Engineering, Northeastern University, Boston, MA.

5866 — A486 Aggressive posterior retinopathy of prematurity: Quantitative analysis of vascular features. Rony Woo1, R.V. Chan2, M. Martinez-Perez1, M.F. Chiang1. 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.
5867 – 5887 – Thursday – Posters

5867 – A487 Outcome of Laser Treatment of AP-ROP in Extremely Premature Infants. Glen A. Gold1,2, D.J. Gunn1, D. Cartwright. ‘Ophthalmology, 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. Schoonewolff2, J. Mercado3, R. Chan4, V. Morales-Canton1, G. Garcia-Aguirre5, M. Martinez-Castellanos1. ‘Retina, 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.

5869 – A489 Evaluating the Association of Autonomic Drug Use In The Development and Severity Of Retinopathy Of Prematurity. Mohamed A. Hussein, D.K. Coats, H. Khan, E. Paysse, P. Steinkuller, L. Kong. ‘Ophthalmology, Baylor College of medicine, Houston, TX.

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.

5871 – A491 Swedrop - A National Quality Register For Retinopathy Of Prematurity - Makes It Possible To Improve Screening Criteria ForROP In Sweden. Gerd Holmstrom, A. Hellstrom, P. Jakobsson, P. Lundgren, K. Tornqvist, A. Wallin. ‘Neuroscience, ophthalmology, Upsala University, Upsala, 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.

5872 – A492 Improving The Fit In Logistic Regression Models Of Retinopathy Of Prematurity: The Square Of Birth Weight As A New Covariate Of Risk. Simon Duik1, C.N. Igwe, R.L. Holder, L. Butler. ‘Birmingham & Midland Eye Centre, City Hospital, Birmingham, United Kingdom; 2Department of Primary Care, University of Birmingham, Birmingham, United Kingdom.


5874 – A494 Description Of A Technique To Make Stereo Ocular Images And Retina Angiograms Using The Retcam II In Pediatric Patients. Victoria Gonzalez2, F. Schoonewolff1, V. Morales-Canton1, M.A. Martinez-Castellanos3. ‘Ophthalmology, Asociacion Para Evitar la Ceguera, Mexico, D.F., Mexico; 2Retina, Asoc 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.


5876 – A496 Digital Imaging Identification Of Skip Lesions In Laser Treatment Of Retinopathy Of Prematurity. Robizon V. Chan1, K.B. Kang2, A. Orlil2, Weil L. Chang3, T.C. Lee1. ‘Ophthalmology, Well 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. *CR

5877 – A497 Comparison Of Neurodevelopmental Outcomes In Two Retinopathy of Prematurity (ROP) Cohorts: Standard vs. Revised Oxygen Saturation Protocol Groups. Tamara J. Lee1, J. Bernardo2, C. Sonnie3, G. Hoppe4, J.E. Sears5. ‘Ophthalmology, Cleveland Clinic Lerner College of Medicine, Cleveland, OH; 2Cole Eye Institute, Cleveland Clinic, Cleveland, Ohio. *CR


5882 – A502 Arginase 2 Deficiency Limits Microglia/Macrophage Activation and Prevents Hyperoxia-induced Vascular Injury in the Mouse Retina. Junatam Sivananpradit1, Z. Xu1, S.P. Narayan1, R.W. Caldwell2, R.B. Caldwell2,3. ‘Vascular Biology Center, 3Department of Pharmacology and Toxicology, 4Georgia Health Sciences University, Augusta, GA; 5VA Medical Center, Augusta, GA.

5883 – A503 Genetic Deletion or Pharmacological Inhibition of Aldose Reductase Protects the Retina in a Mouse Model of Ischemia-related Retinopathy. Zhongjie Fu3, S.Y. Li1,4, S. Chung1,2,4, D. Wong1,4, A.C. Lo1,2,4. ‘Eye Institute, 1Anatomy, 2Research Center of Heart, Brain, Hormone and Healthy Aging, 3The 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.


5886 – A506 Dark Rearing (DR) as a means of mimicking ‘Physiological Hypoxia’: A rationale for non-invasive treatment of Retinopathy of Prematurity. Samuel J. Adamson, P. Kozulin, R. Maccaroni, S. Yun, P. Hu, S. Bistl, J. Provits, M.C. Madigan, J. McCollin, T. Chen-Ling. ‘Department 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.

5887 – A507 Role of the Krebs Cycle Metabolites in Retinal Angiogenesis: Implication of α-KG and its Receptor GPR99. Francois Duhame1, S. Tremblay1, K. Zanol1, P. Sapieha, S. Chemtob. ‘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. Tuancho Jiang1, B. Numpang2, B. Yu1, H. Wang1, G. Smith1, M. McCloskey1, S. Patel1, R. DiGeromino1, M. Hartnett1, R. Lane1. 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 Allogenic Modulator of the IL-1 Receptor Prevents the Development of Oxygen-Induced Retinopathy. Jose C. Rivera1,2, N. Sitara1, D. Hamel1, A. Madaan1, J-C. Honore1, B. Noueihed1, M. Blais2, C. Quinnou1, P. Sapieha2, S. Chonolob2. 1Pediatickes, Ophthal, Pharmacology, Hopital Sainte-Justine/Montreal University, Montreal, QC, Canada; 2Ophthalmology, Maisonneuve-Rosemont Hospital, Montreal, QC, Canada.


5891 — A511 Nitric Oxide and Signal Loss in the “ROP Rat” Retina. Tara L. Favazza1, G. DeWalt2, N. Zhang1, R.M. Hansen1, A.B. Fulton1, W.D. Eldred1, J.D. Akula1. 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 Zhang1, T.L. Favazza1, A. Baglieri1, A.B. Fulton1; R.M. Hansen1, P.M. Ivovne1, 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.

Hall B/C A572-A606

Thursday, May 10, 2012, 8:30 AM-10:15 AM
Retinal Cell Biology / Nanotechnology and Regenerative Medicine Group

521 Stem Cells In Vivo and In Vitro: Fates and Functional Outcomes

Moderators: Deborah C Otto and Valeria Canto Soler

5893 — A572 Gene Expression and Immunogenicity of induced Pluripotent Stem Cell-Derived Retinal Pigment Epithelial Cells. Hiroshi Kamao1,2, M. Mandai1, A. Saga1, J. Kiryu1, M. Takahashi1. 1Laboratory for Retinal Regeneration, RIKEN Ctr for Dvlpmntl Biology, Kobe, Japan; 2Ophthalmology, Kawasaki medical school, Okayama, Japan.

5894 — A573 Manipulation Of Gene Expression In Orbital Adipose-derived Meneschymal Stem Cells From Retinoblastoma Patients Using Lentiviral Vectors. David M. Wu1, J. Apicario1, A. DiConti1, T.C. Lee1. 1Dohney Eye Institute, University of Southern California, Los Angeles, CA; 2Ophthalmology, Children’s Hospital Los Angeles, Los Angeles, CA; 3Ophthalmology, Children’s Hospital Of Los Angeles, Los Angeles, CA; 4Ophthalmology, Childrens Hospital Los Angeles, Los Angeles, CA.

5895 — A574 VEGF Induces Neural and Astrocytic Differentiation and Angiogenesis in Bone Marrow-derived Stem Cells and Promotes Microglia Conversion Following Mobilization With GM-CSF. Revital B. Avaraham Lubin1, T. Sadikov2, N. Askenasy1, N. Goldenberg Cohen1. 1The Krieger Eye Research, Sackler Faculty of Medicine, Tel Aviv University, PetaCh Tikva, Israel; 2Frankel Laboratory, Center for Stem Cell Research, PetaCh Tikva, Israel; 3Department of Pediatric Ophthalmology, Schneider Children’s Medical Center of Israel, Petach Tikva, Israel.


5898 — A577 Growth and Organization of Human iPSC-Cell-Derived Retinal Cell Types on a Biocompatible Membrane. Jessica M. Martin1, J. Phillips1, L.S. Wright1, C. Johnson2, N. Radke1, D.M. Gamm1. 1University of Wisconsin - Madison, Madison, WI; 2Cook Biotechn, West Lafayette, IN; 3University of Louisville, Louisville, KY. *CR


5901 — A580 Characterization Of Human Retinal Progenitor Cells. Petr Y. Baranov1, G.B. Melo1, M.J. Young1. 1Schepens Eye Research Institute, Boston, MA; 2Ophthalmology, Federal Univ of Sao Paulo/UNIFESP, Aracaju, Brazil; 3Schepens Eye Research Inst, Harvard Medical School, Boston, MA.

5902 — A581 Transdifferentiation And Molecular Characterization Of Bone Marrow-derived Progenitors In A Coculture system. Stephanie G. Lecaque, I. Mathivanan, S. Wolf, V. Ennzm, Department of Ophthalmology, University of Bern, Bern, Switzerland.

5903 — A582 Visual Cycle Machinery in Human Induced Pluripotent Stem Cell-Derived RPE. Alberto Muniz1, M.L. Plamper2, B.S. Betts1, A.J. Johnson1, H.-C.H. Wang2. 1Ocular Trauma, National Research Council / USAISR, Fort Sam Houston, TX; 2Ocular Trauma, US Army Inst of Surgical Research, Fort Sam Houston, TX; 3Biology, University of Texas at San Antonio, San Antonio, TX.

5904 — A583 Transcriptional Regulation of Retinal Fate Determination from Human Induced Pluripotent Stem Cells. Akshayalakshmi Sridhar1, M.M. Stewart1, M. Gupta1, J.S. Meyer1. 1Biology, Indiana Univ Purdue Univ Indianapolis, Indianapolis, IN; Center for Regenerative Biology and Medicine, Department of Medical and Molecular Genetics, Indiana University Stark Neuroscience Research Institute, Indianapolis, IN.

5905 — A584 In vitro Differentiation of Human Induced Pluripotent Stem Cells Towards Retinal Photoreceptors. Carla B. Mellough1, E. Sernagor1, D.H. Steel1, M. Lako1. 1Institute of Genetic Medicine, 2School of Neurology, Neurobiology and Psychiatry, University of Newcastle Upon Tyne, Newcastle, United Kingdom; 3Sunderland Eye Infirmary, Sunderland, United Kingdom.

5906 — A585 Functional Comparison Of RPE Cultures Expanded From Differentiated Human iPSC Cells And Prenatal Eye Tissue. Ruchira Singh1, W. Shen1, X. Guo1, E.T. Perez2, D. Kuai1, L.S. Wright1, B. Pattanik1, D.M. Gamm1. 1Waismann Center, 2Dept. of Ophthalmology and Visual Sciences and Pediatrics, Eye Research Institute, 3Dept. of Ophthalmology and Visual Sciences and Eye Research Institute, 4University of Wisconsin, Madison, WI.

5907 — A586 Soluble Factors Secreted by Fibroblast Feeder Cells Induce Retinal Pigment Epithelium Differentiation from Human Pluripotent Stem Cells. Alexandra Mikhailova1, H. Hongisto2, H. Vaajasaari2, S. Narkilahti2, R. Suuronen2, T. Ilmarinen1,2, H. Skottman1,2. 1University of Tampere, Institute of Biomedical Sciences and Medical Technology, Tampere, Finland; 2Tampere University Hospital, Department of Eye, Ear and Oral Diseases, Tampere, Finland; 3Institute of Biosciences and Medical Technology, Tampere, Finland; 4Tampere University Hospital, Department of Eye, Ear and Oral Diseases, Tampere, Finland.
5908 — A587 Engraft Of Hyaluronic Acid-based Hydrogel Loaded Mesenchymal Stem Cell Into The Vitreous Body Of The Ischemic Rat Retina. Su-Ju Oh1, J. Lee2, J. Shin1, C. Yeum1, G. Cha2, M.-H. Chun3. 1Department of Anatomy, 2Institute of Hansen’s Disease, 3College of Med Catholic Univ of Korea, Seoul, Republic of Korea.

5909 — A588 Characterization Of Human Induced Pluripotent Stem Cells Derived Neuronal Progenitor Cells. Wei Kong1, N. Yang1, X. Li2. 1Ophthalmology, the Fourth People’s Hospital of Shenyang City, Shenyang, China; 2Ophthalmology, the 4th Affiliated Hospital of China Medical University, Shenyang, China.

5910 — A589 Directing Virus-free Human Induced Pluripotent Stem Cells To Differentiate Into Retinal Cells. Xiufeng Zhong1, C. Hampton1, T. Park1, D.M. Gamm1, E. Zambrides1, 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 — A5890 BDNF and DNA Demethylation Increase Expression of Pluripotent and Retinal Neuronal Genes in ImM10 Müller Glia-Derived Retinal Stem Cells. Deborah C. Otteson1, Kyle Faillace1, A占领. 1Laboratorio de Neurociencias, Piso 7, UAM, Ciudad Universitaria, Mexico, D.F.; 2University of Wisconsin-Madison, Madison, WI.

5912 — A591 Transcriptional Comparison of RPE Derived From Two Human Embryonic Stem Cell Lines with Human Fetal RPE. Lawrence J. Rizzolo1, G. Gan1, S. Peng1, T.A. Van Zyl1, L.S. Edirwicke2, H. Ah1, M. Zhong1, C. Qiu1, R.A. Adelman1. 1Surgery/Ophthalmology, 2Cell Biology, 3University of California San Diego, La Jolla, CA; 4University of California, Los Angeles, CA; 5University of California-Santa Barbara, Santa Barbara, CA; 6Bioscience II, Center for Stem Cell Biology and Regenerative Medicine, UCSB, Santa Barbara, CA; 7Pathology, Keck School of Medicine USC, Los Angeles, CA.

5913 — A592 Retinal Differentiation Of Human ES Cells Maintained In Chemically Defined, Xeno-free E8 Culture Medium. Kyle Wallace1, A. Gerner1, 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 — A593 Microparticles in Differentiation of Retinal Pigment Epithelial Cells from Human Pluripotent Stem Cells. Anni E. Sarkio1, T.H. Ilmarinen1, J.S. Loo1, H.T. Skottman1. 1Institute of Biomedical Technology, University of Tampere, Tampere, Finland; 2Institute of Biosciences and Medical Technology, Tampere, Finland; 3School of Materials Science and Engineering, Nanyang Technological University, Singapore, Singapore.

5915 — A594 Transfection of IGF-1 and IGFBIPL-1 in Neuronal Progenitor Cells from Human Persistent Fetal Vascular for Neuroprotection. Jie Ma1, C. Guo1, G. Chen1, D. Cyn1, K. Lashkari1, 2Scheepens Eye Research Institute, Boston, MA; 3The Second Xiangya Hospital, Central South University, Changsha, China; 4Massachusetts Eye & Ear Infirmary, Boston, MA.

5916 — A595 Evaluation of Matrigel Degradation by MMP Secretion of hESC-RPE. Kenrick Kuwahara1, D. Zhu1, M. Humayun1, D. Hinton1, A.K. Ahuja1. Doheny Eye Institute, Los Angeles, CA.

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

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


5920 — A599 Evaluation of hESC-Derived Retinal Pigment Epithelial Cells Cultured as a Monolayer on Polymer Substrate Transplanted in RCS Rats. Padmaja B. Thomas1, B.B. Thomas2, L. Liu3, Y. Hu1, D. Zhu1, E. Barron1, D.O. Clegg2, D.R. Hinton1, M.S. Humayun1. 1Ophthalmology, 2Doheny Eye Institute-USC, Los Angeles, CA; 3Cell and Neurobiology, University of Southern California, Los Angeles, CA; 4Ophthalmology, Chang Gung Memorial Hospital, Taoyuan, Taiwan; 5Ophthalmology, Peking University Third Hospital, Beijing, China; 6Pathology/Doheny Eye Inst, Univ of Southern California, Los Angeles, CA; 7Bioscience II, Center for Stem Cell Biology and Engineering- UCSB, Santa Barbara, CA; 8Pathology, Keck School of Medicine USC, Los Angeles, CA; 9Ophthalmology, Doheny Eye Institute - USC, Los Angeles, CA.

5921 — A600 Activated Omental Stromal Cells Protect Against Light-Induced Retinal Injury. Evan B. Price1, P. Bu2, P. Sethupathi2, E.B. Stubbs, Jr.1, J.I. Perlman1, A. Gerner1, J. Ariga3. 1Ophthalmology, 2Research, 3Edward Hines, Jr. VA Hospital, Hines, IL; 4Ophthalmology, 5Microbiology and Immunology, 6Loyola University Medical Center, Maywood, IL; 7Travel Grant Awardee.

5922 — A601 Embryonic Stem Cell Derived Retinal Pigment Epithelium Stem Cell Transplant: Survival And Lack Of Tumor Formation In Athymic Nude Rats. Bruno Diniz1, Sr1, R. Ribeiro1, Y. Hu1, L. Liu1, P. Thomas1, B. Thomas1, D. Hinton1, M. Humayun1. 1Doheny Eye Institute, University of Southern California, Los Angeles, CA; 2Ophthalmology, Universidade Federal de São Paulo, São Paulo, Brazil; 3Department of Ophthalmology, Peking University Third Hospital, Beijing, China; 4Keck School of Medicine, Los Angeles, CA.

5923 — A602 Comparison Of Barrier Properties of RPE Derived From Two Human Embryonic Stem Cell Lines to the Properties of Human Fetal RPE. Shaoming Peng1, G. Gan1, C. Qiu1, L. Li1, R.A. Adelman2, L.J. Rizzolo2. 1Surgery/Ophthalmology, 2Cell biology, 3University of Southern California-Santa Barbara, Santa Barbara, CA; 4Pathology, Keck School of Medicine USC, Los Angeles, CA.

5924 — A603 Polarized Human Embryonic Stem Cell-Derived RPE Maintains Its Monolayer Integrity and Function after Long-term in vitro Culture. Danhong Zhu1, D.O. Clegg2, D.R. Hinton1. 1Doheny Eye Institute/Pathology, Univ of Southern California, Los Angeles, CA; 2Bioscience II, Univ of California-Santa Barbara, Santa Barbara, CA; 3Pathology, Keck School of Medicine USC, Los Angeles, CA.


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

5927 — A606 HB-EGF is a Master Regulator of Müller Glia Dedifferentiation and Retina Regeneration. Jin Wan, D.J. Goldman. Molecular & Behav Neurosc Inst, University of Michigan, Ann Arbor, MI.
Thursday – Posters – 5928 – 5952

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

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. Kirk3. 1Georgetown University School of Medicine, Washington, DC; 2Ophthalmology, Allegheny General Hospital, Pittsburgh, PA; 3Ophthalmology, Kirk Eye Center, River Forest, IL.


5931 — A156 Trabeculectomy Results In Eyes With Low Preoperative IOP. Paolo Bettin, M. Fiori, C. Ciampi, F. Di Matteo, F. Bandello. Ophthalmology, University Scientific Institute San Raffaele, Milan, Italy. *CR

5932 — A157 Characteristics and Outcomes of Eyes with Neovascular Glaucoma (NVG) that Underwent Combined Pars Plana Vitrectomy (PPV) and Baerveldt Glaucoma Shunt Procedure. Christopher W. Seery1, C. Seery2, P. Emani-Naemi2, A. Kolomeyeva1, M. Zarbin1, R. Fetchner2, N. Bhagat1. 1UMDNJ/ Bucknell University, Florham Park, NJ; 2UMDNJ, Newark, NJ.


5935 — A160 A Prospective Study of Phakic vs Pseudophakic Eyes After Phacoemulsification in Trabeculectomy for Open-Angle Glaucoma. Yuji Takihara1, M. Inatami2, M. Iwao3, M. Kawai3, T. Inoue3, K. Iwao3, 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. Ophthalmology, University of Erlangen Nurnberg, Erlangen, Germany; General Ophthalmology, Medical University of Lublin, Lublin, Poland.


5939 — A164 A Comparison Of Intraocular Pressure Reduction After Selective Laser Trabeculoplasty With The Co-administration Of Lopetrednol Versus None. Ronald L. Rebenitsch, N.R. Binder1, A. Jani1, K. Pikey1. 1Ophthalmology, University of Missouri-Kansas City, Kansas City, MO.


5941 — A166 Efficacy Of Glaucoma Surgical Procedures: A Systematic Review And Metaanalysis. Luciano Quaranta1, I. Floriani2, I. Riva1, G. Gambirasio1, I. De Simone2, E. Rulli2, E. Biagioli2, S. Credidio2. 1Ophthalmology-Glaucoma Unit, University of Brescia, Brescia, Italy; 2Laboratory of Clinical Trials, Istituto di ricerche farmacologiche «Mario Negri», Milan, Italy.

5942 — A167 Faster Visual Recovery Following Ex-press Than Trabeculectomy: Results Of A Prospective Retal. Dinesh J. Jhirani1, L. Beltman-Aguillo2, Y.P. Jin1,2, L.D. Wagschal1, G.E. Trope1,4, Y.M. Bays1,2. 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 Trabeculectomy. Jimena Schmidt1, S. Araneda1, E. Abusleme1, C. Perez1, E. Maul2, 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 Trabeculectomy. Andrew Torey1, S. Kulkarni2, L. Shuba3, M. Nicoletti4. 1Ophthalmology & Visual Sciences, Dalhousie University, Halifax, NS, Canada; 2Ophthalmology, University of Ottawa, Ottawa, ON, Canada.


5948 — A173 Outcome And Structural Evolution Of Mytomycin Assisted Trabeculectomy In Inflammatory Glaucoma. Friederike Mackensen1, B.C. Dobner2, A.B. Knoll1, A.F. Scheuerle1, K. Rohrschneider2. 1Department of Ophthalmology, Interdisciplinary Uveitis Center, University of Heidelberg, Heidelberg, Germany; 2Department of Ophthalmology, University of Heidelberg, Heidelberg, Germany. *CR


5953 — A178  The Influence Of Scleral Flap Thickness, Shape, Suture Number And Position On Pressure Change And Aqueous Flow Direction In A New Trabeculectomy Model. Amir Samsudin1,2, S. Broccolini3, P.T. Khaw1, L. Eames1. 1University of Malaya, Kuala Lumpur, Malaysia; 2NIHR Biomedical Research Centre, Moorfields Eye Hospital and UCL Institute of Ophthalmology, London, United Kingdom; 3UCL School of Pharmacy, London, United Kingdom; 4UCL Department of Mechanical Engineering, London, United Kingdom.


5956 — A181  Short-Term Efficacy of Selective Laser Trabeculoplasty in Primary Angle Closure Disease - Results of a Randomized Controlled Trial. Arun Kumar Narayanaswamy1, S.A. Perera2, C. Ho1, C.K. Leung3, D.V. Istiantoro4, Cota2, L. Biteli1, T. S Prata1. 1Ophthalmology, University Hospital Zurich, Zurich, Switzerland; 2Glaucoma, Singapore Eye Research Institute, Singapore, Singapore; 3Glaucoma, Singapore National Eye Centre, Singapore, Singapore; 4Glaucoma, Department of Ophthalmology and Visual Sciences, Chinese University of Hong Kong, Hong Kong, Hong Kong; 5Glaucoma, Jakarta Eye Center, Jakarta, Indonesia.*CR.

5957 — A182  Excimer Laser Trabeculoplasty (ELT) combined with Phacoemulsification and Lens Implantation: 5 Year Post-OP Observations. Ulrich F. Giers1, L. Kleineberg1, R.P. Stodtmeister2, M.S. Berlin3, L.E. Pillunat4. 1Detmold Eye Clinic, Detmold, Germany; 2Ophthalmology, University Hospital Carl Gustav Carus, Rodalben, Germany; 3Ophthalmology, UMDNJ-New Jersey Medical School, Newark, NJ; 4Ophthalmology, Drexel University, Philadelphia, PA.


5959 — A184  Primary and Repeat Selective Laser Trabeculoplasty in Pseudophakic Eyes: 2 year follow-up. Tamara L. Berezina1, A.S. Khouri1, B.A. Maltzman1, K. Shah1, R.D. Fechner1. 1Ophthalmology, UMDNJ-New Jersey Medical School, Newark, NJ; 2Psychological and Brain Sciences, University of Louisville, Louisville, KY.


5961 — A186  The Effectiveness of Selective Laser Trabeculoplasty on Eyes of Different Corneal Thicknesses. Joseph A. Donnelly1, E. Migliore2, L.F. Jindra2. 1Albert Einstein College of Medicine, Bronx, NY; 2Floral Park Ophthalmology, Floral Park, NY; 3Ophthalmology, Columbia University, Floral Park, NY.*CR

5962 — A187  Transscleral Micropulse Diode Laser Cyclophotocoagulation as Effective Adjunctive Treatment prior to Glaucoma Surgery. Maria Cecilia D. Aquino1, A. Tan1, S. Loon1, P.T. Chew1,2. 1Ophthalmology, National University Hospital, National University Health System, Singapore, Singapore; 2Ophthalmology, National University of Singapore, Singapore, Singapore.


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

5965 — A190  Selective Laser Trabeculoplasty Energy Dose Response - Long Term Results. Larissa A. Gregory, T.L. Berezina1, S. Prasertsit, A.S. Khouri. Ophthalmology, UMDNJ - New Jersey Medical School, Newark, NJ.

5966 — A191  The Cost Effectiveness And Duration Of Effectiveness Of SLT As Primary And Secondary Therapy Related To Medications In The Treatment Of Primary Open Angle Glaucoma. Ernesto D. Golez, III1, T.A. Shazly2, A. Golez3. 1Glaucoma, St Joseph, Paris, France; 2Psychological and Brain Sciences, University of Louisville, Louisville, KY; 3Ophthalmology, University Hospitals Coventry Warwickshire & Warwick Medical School, Coventry, United Kingdom.

5967 — A192  Subsequent Slt Can Be Effective After Initially Less Responsive Slt: 4 Year Follow-up. Albert S. Khouri1, T.L. Berezina1, K. Shah1, R.D. Fechner1. 1Ophthalmology, UMDNJ, Newark, NJ; 2Psychological and Brain Sciences, University of Louisville, Louisville, KY.


5970 — A195  Laser Surgery in the United Kingdom. Gordon Bowler1, H. Saedon1, R. Thomas2, W. Chan3. 1Ophthalmology, Princess Royal University Hospital, Orpington, United Kingdom; 2Ophthalmology, University Hospitals Coventry Warwickshire & Warwick Medical School, Coventry, United Kingdom; 3Ophthalmology, Croydon University Hospital, Croydon, United Kingdom; 4Ophthalmology, Great Ormond Street Hospital, London, United Kingdom.

5971 — A196  Repeat SLT In Comprehensive Ophthalmology Practices. Jeffrey D. Henderer4, E.S. Tung1, A. Johnston1, S.K. Luminais4, R. Sherry1, J.P. Gaughan1,2. 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. Cotá1, L. Biteli2, T.S. Prata1. Glaucoma, Hospital Medicina dos Olhos, Sao Paulo, Brazil; 2Glaucoma, Hospital Medicina dos Olhos, Sao Paulo, Brazil.

5973 — A198  Efficacy of Transscleral Diode Laser Cyclophotocoagulation on Neovascular Glaucoma: Vein Occlusion versus Proliferative Diabetic Retinopathy. Neha Sangal1, A. Anchal1, T.D. Patriankos2,3. 1University of Chicago, Chicago, IL; 2John H. Stroger Jr. Hospital of Cook County, Chicago, IL.


Hall B/C D804-D848
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Cornea

523 Corneal Endothelium

Moderator: Ula V Jurkunas


5985 — D806 Oxidative Stress and Protective Proteins in Fuchs Endothelial Corneal Dystrophy. Yutaka Kaneko, S. Saraswathy, R.E. Smith, N.A. Rao. Ophthalmology, Doheny Eye Institute, Los Angeles, CA; 2Ophthalmology, Jules Stein Eye Institute, University of California-Los Angeles, Los Angeles, CA; 3Jules Stein Eye Institute, University of California, Los Angeles, Los Angeles, CA; 2Ophthalmology, Jules Stein Eye Institute, UCLA, Los Angeles, CA; 3Corneal Service, CHS/UCLA, Los Angeles, CA.


5987 — D808 Genetic screen of African-Americans with Fuchs endothelial corneal dystrophy. Natalie A. Afshari1, M.A. Minear2, J. Rimmler3, E. Balajonda1, S. Watson1, M.A. Hauser1, R R. Allingham2, G.K. Klintworth2, Y-J. Li2, S.G. Gregory2. 1Ophthalmology, Duke University Eye Center, Durham, NC; 2Duke Center for Human Genetics, Durham, NC; 3Ophthalmology & Medicine, Duke Univ Medical Center, Durham, NC; 4Pathol Ophthal, Duke Univ Medical Center, Morrisville, NC.

5988 — D809 Successful Culture Of Human Corneal Endothelial Cells Isolated From Patients With Fuchs Endothelial Corneal Dystrophy. Marie-Claude Perron1, K. Zaninolo1, C. Bostan1, O. Rochette Drouin1, A. Deschambeault1, I. Brunette1, S. Proulx2. 1Maisononneuve-Rosemont Hospital Research Center, Montreal, QC, Canada; 2Centre 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; 3Department of ophthalmology, University of Montreal, Montreal, QC, Canada.
5996 — D817  Kinetics of Intracellular Pro-apoptotic Bac Protein Inducing Cell Death in Corneal Endothelial Cells. Marko Pastak1, B.B. Singer2, A. Kovut1, M. Czugal2, B. Seitz2, M. Epple3, K-P. Stuhl1, S. Ergin1, T.A. Fuchslyger4, 5. Institute of Anatomy, 1Department of Ophthalmology, Essen University Hospital, Essen, Germany; 2Institute of Inorganic Chemistry, University of Duisburg Essen, Essen, Germany; 3Department of Ophthalmology, Saarland University Hospital, Homburg/Saar, Germany; 4Department of Ophthalmology, Düsseldorf University Hospital, Düsseldorf, Germany.


5998 — D819  Viral Vectors For Gene Transfer To Corneal Endothelial Cells. Thomas A. Fuchslyger2, U.V. Jurkunas1, A. Kazlauskas1, R. Heine-University Duesseldorf, Duesseldorf, Germany; 2Department of Ophthalmology, Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 3Dept of Ophthalmology/Harvard Med Sch, Mass Eye&Ear Infirmary; Schepens Eye Res Inst/ Harvard, Boston, MA; 4Department of Ophthalmology, Osaka University Graduate School of Medicine, Osaka, Japan.

5999 — D820  Rock Inhibitor Eye Drops Accelerate Corneal Endothelium Wound Healing In A Primate Model. Naoki Okumura1, N. Koizumi1, M. Ueno1, Y. Sakamoto1, H. Takahashi1, K. Yasamaki1, R. Torii1, J. Hamuro1, S. Kinoshita1. 1Biomedical Engineering, Doshisha University, Kyotanabe, Japan; 2Ophthalmology, Kyoto Prefectural Univ of Med, Kyoto, Japan; 3Research Center for Animal Life Science, Shiga University, Kyotanabe, Japan.

6000 — D821  Culture of Human Corneal Endothelial Cells (HCECs) for therapeutic purposes. Jesinta Navaratnam1, J.K. Slettedal1, E. Gulliksen1A, S. Boye1, M.C. Moe1, L. Drolsum1A, Fuchsluger1A, L. Lillevold, S. Boye, M.C. Moe, L.K. Drolsum, B. Nicolaissen. Center for Eye Research, Department of Ophthalmology, Oslo University Hospital and University of Oslo, Norway. *CR

6001 — D822  Increased Proliferation and Replicative Lifespan of Isolated Human Corneal Endothelial Cells with low-Ascorbic acid 2-phosphate. Satoru Yamagami1,2, N. Shima1, M. Kinoto1, M. Yamazaki2. 1Department of Ophthalmology, 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 Palchesko2, J.L. Funderburgh1, A. Feinberg2. 1Ophthalmology, University of Pittsburgh School of Medicine, Pittsburgh, PA; 2Biomedical Engineering, Carnegie Mellon University, Pittsburgh, PA.


6005 — D826  Functional Study of SLC4A11 in HEK293 cells. Diego G. Ogando1, S.S. Jalimarada1, E.N. Vithana2, J.A. Bonanno3. 1School of Optometry, Indiana University, Bloomington, IN; 2Singapore Eye Research Institute, Singapore, Singapore.


6007 — D828  Notch Inhibitor DAPT Blocks Fibroblastic Transformation of Corneal Endothelium. Cheng Li, F. Dong, W. Li, Z. Liu. Eye Inst & Affiliated Xiamen Eye Ctr, Xiamen, China. 5997

6008 — D829  Over-representation Preliminary Analysis Between Expressed Genes In Corneal Endothelium And Mesenchymal Stem Cells. Jorge E. Valdez1, J. Zavala1, V. Treviño1, E. Martínez1. 1Dean’s Office, Tecnologico de Monterrey School of Medicine, Monterrey, Mexico; 2Cátedra de Oftalmología - Tecnológico de Monterrey, Monterrey, Mexico; 3Cátedra de Bioinformática - Tecnológico de Monterrey, Monterrey, Mexico.

6009 — D830  CD147 Expression Required for Lacrimal Transports MCT1 and MCT4 in Rabbit Corneal Endothelium. Shimin 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. Ryohei Numata1, N. Okumura1, M. Nakahara1, M. Ueno1, S. Kinoshita1, Y. Kanemura3, Y. Sasai4, N. Koizumi1. 3Biological Sciences, SUNY College of Optometry, New York, NY; 4Ophthalmology, Klinikum Chemnitz, Chemnitz, Germany. 5CR

6011 — D832  The Role Of DJ-1 In Nrf2-regulated Antioxidant Defense In Human Corneal Endothelial Cells. Cailing Liu, T. Schmeid, U. Jurkunas. Schepens / 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, J M Heur2, E.P. Kay2. 1Ophthalmology, University of Southern California, Los Angeles, CA; 2Doheny Eye Institute, Los Angeles, CA.

6013 — D834  Isolation and Propagation of Human Corneal Endothelial Cells Using a Dual Media Culture System. Gary S. Peh1, K-P. Toh1, D. Balehosur1, H-P. Ang2, M-X. Lee3, D.T. Tan3, J. Mehta4, 5. Singapore Eye Research Institute, Singapore, Singapore; 6Singapore National Eye Centre, Singapore, Singapore; 7Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 8Department of Clinical Sciences, Duke-NUS Graduate Medical School, Singapore, Singapore.

6014 — D835  Aopticis And Viability Of Human Corneal Endothelial Cell Cultures Following Photodynamic Therapy (pdt). Tanja Stachon1, J. Wung1, 2, T. Eppig3, 4, A. Langenbucher5, B. Seitz6, 7, S. Szentmáry8. 1Department of Ophthalmology, 2Experimental Ophthalmology, 3Saarland University Hospital, Homburg/Saar, Germany; 4Department of Ophthalmology, Renmin Hospital of Wuhan University, Wuhan, China.

6015 — D836  Transient Receptor Potential Melastatin 8 (TRPM8) Channels Mediate Complex Calcium Responses in Human Corneal Endothelial Cells. Stefan Mergler1, M. Valtink1, M. Sahlmiller1, P.S. Reinacht1, K. Engelmann1, U. Pleyer1. 1Department of Ophthalmology, University Medicine Charite Berlin, Berlin, Germany; 2Anatomy, TU Dresden, Dresden, Germany; 3Biological Sciences, SUNY College of Optometry, New York, NY; 4Ophthalmology, Klinikum Chemnitz, Chemnitz, Germany. 5CR


6018 — D839  Study of Effect of Donor Age and Death Neculacation Time on In-vitro Culture of Human Corneal Endothelial Cells. Hini Singh1, R. Tandon1, S. Mohanty1, A. Kumar1. 1Ophthalmology,Dr.R.P. Centre for Ophthalmic Sciences, 2Ncell Cell Facility, 3All India Institute of Medical Sciences, New Delhi, India.
Cultured Human Corneal Endothelial Cells. Liverpool, United Kingdom. of Eye and Vision Science, University of Liverpool, Liverpool, United Kingdom.  

Membrane. Human Corneal Endothelial Cells On Amniotic P120ctn And N-cadherin In Ex Vivo Expansion Of National University College of Medicine, Seoul, Republic of Korea; 2Ophthalmic Oncology, University, New York, NY; 2Ophthalmology, University College 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.  

Cytotoxicity of Ganciclovir on Transplantation in the Province of Quebec from 2000 to 2011. Jose A. Claros1, A.J. Ramirez-Miranda1, R. Vargas1, A. Navas1, A. Gomez1, A. Jimenez-Corona2, E.O. Tsuchiya, V. Yamada, F.E. Hirai, O. Guechi, 1Ophthalmology, New York University, New York, NY; 2Moran Eye Center, University of Rochester Medical Center, Rochester, NY; 2Moran Eye Center, University of Utah, Salt Lake City, UT.  

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

Moderator: Vincent M Borderie  

Main indications for admission to 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-Corona2, E.O. Tsuchiya, V. Yamada, F.E. Hirai, O. Guechi, 1Ophthalmology, New York University, New York, NY; 2Moran Eye Center, University of Rochester Medical Center, Rochester, NY; 2Moran Eye Center, University of Utah, Salt Lake City, UT.  


Evolution of Corneal Transplantation in the Province of Quebec from 2000 to 2011. Louis-Pierre Gavin Meunier1, J. Lapointe1, M-È. Choronzey2, S. Dubuc1, M. Germain1, M. Mabon1, I. Brunette2, 1Ophthalmology, University of Montreal, Montreal, QC, Canada; 2Maisononneuve–Rosemont Hospital Research Center, Montreal, QC, Canada; 3Centre d’Oftalmologie, Quebec, QC, Canada; 4Quebec Eye Bank, Montreal, QC, Canada. 

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. Gheorghe, I. Botez, P-J. Bertaux, A. Ferte, Regional Hospital Center of Metz Bon Secours, Metz, France. 

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. Gheorghe, I. Botez, P-J. Bertaux, A. Ferte, Regional Hospital Center of Metz Bon Secours, Metz, France. 

Cross-linked Variants Of A Novel Semi-synthetic Collagen Substitute For The Reconstitution Of The Surface. Corinna Petsch1, U. Schlotzer-Schrehardt1, M. Frey1, 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 Nurnberg, Erlangen, Germany.  

Biocornea Of Fish Scales - First Results Of A Research Model. T. H. Van Essen1, C. C. Lin2, H.J. Lai1, A.K. Hussain1, M.J. Jager1, G.P. Luyten1. 1Department of Ophthalmology, Leiden University Medical Center, Leiden, The Netherlands; 2Department of Research, Aeon Astron Europe B.V., Leiden, The Netherlands.  

Investigation for the Possibility of Using Polymer Hydrogels as a Device for Cultivation and Transplantation of Corneal Epithelial Cells. Toru Matsunaga1, Y. Watanabe2, T. Sato3, 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 Fishtail-derived Collagen Scaffold Used As Biological Artificial Cornea (BioCornea). Deniz Hos1, F. Bock1, B. Regenfuss1, J. Onderka1, C.C. Lin1, H.J. Lat1, C. Cурсев1. 1Department of Ophthalmology, University of Cologne, Cologne, Germany; 2Department of Ophthalmology, University of Erlangen-Nuremberg, Erlangen, Germany; 3Acon Astron Corp., Taipei, Taiwan; 4Acon Astron Europe B.V., Leiden, The Netherlands. *CR


6042 — D863 The Fate Of Collagen-based Hydrogels As Corneal Substitutes In “High Risk” Graft Recipients. Lucia Kuffova1, R. Fordyce1, M. Robertson1, M. Griffith1, J.-J. Ahn1, K. Merritt1, R.L. Hendricks1, J.V. Forrester1. 1Department of Ophthalmology, University of Aberdeen, Aberdeen, United Kingdom; 2Integrative Regenerative Medicine Centre, Linköping University, Linköping, Sweden; 3Department of Ophthalmology, University of Erlangen-Nuremberg, Erlangen, Germany; 4Acon Astron Corp., Taipei, Taiwan; 5Department of Ophthalmology, University of Cologne, Cologne, Germany; 6041-6042 — D866 — D869


6049 — D870 Graft Failure And Intraocular Pressure Control After Keratoplasty In Iridocorneal Endothelial Syndrome. Desmond T. Quek2, S. Han3, T. Wong4, D. Tan5, J. Mehta5. 1Singapore National Eye Centre, Singapore, Singapore; 2Singapore Eye Research Institute, Singapore, Singapore; 3Ophthalmology, Samsung Medical Centre, Sungkyunkwan University, Korea, Republic of Korea.


6053 — D874 Long-Term Outcome of Corneal Transplant Surgery in Pediatric Patients with Keratoconus. Anna Djougarian1, 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 Bon-Secours, Metz, France.


6058 — D879 Femtosecond Laser-Assisted Mushroom Configuration Penetrating Keratoplasty And Deep Anterior Lamellar Keratoplasty In Advanced Keratoconus. Simon S. Fung1, F. Aiello2, A. Iovieno1, C. Nicc1, V. Maurino1. 1Cornea and External Disease Service, Moorfields Eye Hospital, London, United Kingdom; 2Department of Biophotobiology, Ophthalmology Unit, University of Rome Tor Vergata, Rome, Italy.


6060 — D881 Optical Functional Properties Of The Osteo-odontokeratoprosthesis (okop). Richard M. Lee, G. Ong1, J. White1, F. Lam1, C.S. Liu1, C.C. Hull1. Ophthalmology, Susse Eye Hospital, Susse Eye Hospital, United Kingdom; 2Optometry & Visual Science, City University, London, United Kingdom.

6061 — D882 In Vitro Effect of Microbial Infection on Candidate Biomaterials for Osteo-Odontokeratoprosthesis Skirt. Jodhir B. Mehta1, X. Tan1, A. Rau1, A. Tan1, R.W. Beuerman1, D. Tan1, K. Khor1. 1Cornea Refractive Tissue Engineering, 2Tissue Engineering, SERI, Singapore, Singapore; 3Tissue Engineering, SERI, Singapore, Singapore; 4Cornea, SERI, Singapore, Singapore.

6062 — D883 Field of View of Modified Osteo-Odontokeratoprosthesis. Victor M. Hernandez1,2, C. de Freitas1, G.C. Falcinelli1, Y. Sawatari1, V. Perez2, D. Sultan1, F. Manner1, E.C. Alfonso1, J-M.A. Pare1,2. 1Ophthalmic Biophysics Center, 2Department of Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 3Department of Biomedical Engineering, Biomedical Optics and Laser Laboratory, University of Miami, Coral Gables, FL; 4Department of Maxillofacial Surgery, University of Miami Miller School of Medicine, Miami, FL.

6063 — D884 Poly(ethylene glycol diacrylate) - Poly(2-hydroxyethyl methacrylate) (PEGDA-PHEMA) Based Keratoprosthesis. Amelia L. Zellander1, M. Makhous2, M. Cho3. 1Bioengineering, University of Illinois at Chicago, Chicago, IL; 2Physical Therapy and Human Movement Sciences, Orthopaedic Surgery and Physical Medicine, Northwestern University, Chicago, IL. *CR

6064 — D885 Boston Type I Keratoprosthesis: Micobacterial Colonization and Antibacterial Resistance. Elle P. Eid1, M-C. Robert1, P. Saint-Antoine1, M. Harissi-Dagher1. 1Ophthalmology, 2Microbiology, 3Centre Hospitalier de L’Université de Montréal (CHUM), Hôpital Notre-Dame, Montréal, QC, Canada.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures — Refer to Program Number in the Clinical Trial (CT) Registration Index — Travel Grant Awardee
6065 — D886 Light-induced Maculopathy After Keratoprosthesis Surgery - True Or False? Borja Salvador Culla1, I. Behlau1, R.R. Sayegh2, F. Delori2, C.H. Dohlman1. 1Cornell - Keratoprosthesis, Massachusetts Eye & Ear Infirmary, Boston, MA; 2Schepens Eye Research Institute, Boston, MA.


6067 — D888 Prospective Evaluation of the International Boston Keratoprosthesis Project in Ethiopia. Roberto Pineda, II1, A. Cruzat1, I. Behlau1, Y. Tilahun1, J. Arment1, C. Dohlman1. 1Ophthalmology, Clinica Oftalmica de Medellin, Medellin, Colombia.


6071 — D892 Long-term Follow-Up Of Implanted Boston Type I Keratoprosthesis And Angle Structural Changes Using anterior segment Optical Coherence Tomography, Cynthia X. Qian1, S. Hassanyan2, M. Harissi-Dagher2. 1Ophthalmology, University of Illinois Eye & Ear Infirmary, Chicago, IL, 2Schepens Eye Research Institute, Boston, MA.

6072 — D893 Cross-linking Donor Corneas for the Boston Keratoprosthesis: A Method of Increasing Resistance to Collagenolytic Degradation. Sameer N. Arafat2, A.N. Shukla2, C.H. Dohlman1, J. Chodosh1, J.B. Ciraksky1. 1Massachusetts Eye and Ear Infirmary, Department of Ophthalmology, Harvard Medical School, Boston, MA; 2Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Department of Ophthalmology, Harvard Medical School, Boston, MA.


6074 — D895 Monitoring Of Glaucoma After The Implantation Of A Keratoprosthesis. Riccardo Scotto2, M. Papadiaz2, A. Bagnis2, A. Macri2, C.E. Traverso2. 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. Price4, P.B. Morgan6, C. Maldonado-Codina4, C.B. Dobson4. 1Faculty of Life Sciences, 2EuroLens Research, Faculty of Life Sciences, 3University of Manchester, Manchester, United Kingdom. 4CR

6077 — D898 Effects Of Multi-purpose Solutions On The Viability And Encystment Of Clinical Isolates Of Acanthamoeba Determined By Flow Cytometry. Masaki Imagawa1, 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. Kissoua T. Tchedre1, M. Imagawa1, Y. Horii1, 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 Ito4, N. Miyata4, T. Kawagoe4, M. Nobuhisa4, E. Okada4. 1Okada Eye Clinic, 2Okada Eye Clinic, Yokohama, Japan; 3Department 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, E. Tran1, C. Jarvis1, J. Thomas2, K. Tran1, T. Mosley1, R. Hanes1, A. Hamood1. 1Ophthalmic & 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 Melanine Covalently Bound to Contact Lenses. Debarun Dutta4, N. Cole1,2, M. Willcox1. 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. Hugenholz1. 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 Ecoenergics, 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.
6090 — D911 Comparison Of Two Dual-Disinfection Systems For Ocular Comfort, Corneal Staining And Corneal Infiltrative Events. Daniel Tilia1, P. Lazon De La Jara2, N. Peng1, H. Zhu1, M.D. Wilcox1, B.A. Holden1.
1Brien Holden Vision Institute, Sydney, Australia; 2School of Optometry and Vision Science, University of NSW, Sydney, Australia; 3Brien Holden Vision Institute, Vision Cooperative Research Centre, Sydney, Australia. *CR, ▶

1Toxicology, *Research&Development, YSLAB, Paris, France; 2Direction des Laboratoires et des Contrôles, Agence Française de Sécurité Sanitaire des Produits de Santé, Vendargues, France; 3Chemie-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 Lenses Reduces Complications with Extended Wear of Contact Lenses. Jerome Oszkani, D.M. Wilcox, P. Lazon De La Jara, Y.M. Rath1, B.A. Holden1. *Clinical Research & Trials Centre, Brien Holden Vision Institute, Sydney, Australia; 2Brien Holden Vision Institute, Univ of New South Wales, Sydney, Australia; 3Cornea, Contact lens, Refractive Surgery, LV Prasad Eye Institute, Banjara Hills, Hyderabad, India; 4Brien Holden Vision Institute, Vision Cooperative Research Centre, Sydney, Australia. ▶


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


6097 — D918 Protoglycan 4 (lubricin) Enhances the Wettability Of Model Conventional And Silicone Hydrogel Contact Lenses. Lakshman N. Subbaraman1, T.A. Schmidt1, H. Sheard1.
1Chemical Engineering, McMaster University, Hamilton, ON, Canada; 2Biomedical Engineering, University of Calgary, Calgary, AB, Canada.

1CCLR, School of Optometry, 2School of Optometry, University of Waterloo, Waterloo, ON, Canada.


6100 — D921 Solve Release From Soft-contact-lens Hydrogels. Csaba Kotsmar1, T. Nam2, N. Taylor1, K. Yeh1, C.J. Radke1.
1Chemical & Biomolecular Eng, Univ of California at Berkeley, Berkeley, CA. ▶

6101 — D922 Ocular Delivery Of Ketonifen Fumarate By Silicone Hydrogel And Conventional Hydrogel Contact Lens Materials. Anthony Soluri1, A. Hui1, L. Jones. 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. Matsunaga1, K. Kakisu1, Y. Yamazaki1, T. Sato1, T. Tochikubo1. 11st Dept of Ophthalmology, Toho University, Tokyo, Japan; 2SEED Co Ltd, Kounosu-shi, Japan. *CR


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

6105 — D926 Oxygen Diffusion Behind Multilayered Silicone Gases Permeable Contact Lenses. Sofia C. Peixoto-de-Matos1, V. Compa1, S. Moya1, J. Jarge1, J.M. Gonzalez-Meijome1. 1Center of Physics, University of Minho, Braga, Portugal; 2Applied Thermodynamics, Universidad Politécnica de Valencia, Valencia, Spain. *CR

1Cornea/Ophthalmology, Harvard Medical School/MEEI, Boston, MA; 2Cornea / Ophthalmology, Harvard Medical Sch/MEEI, Boston, MA; 3Cornea/Ophthalmology, MA Eye & Ear Infirmary, Boston, MA; 4Ophthalmology, Cornea Research, Georgia Tech, Atlanta, GA; 5Microgravity Science and Engineering, University of Florida, Gainesville, FL; 6R & D, Alcon Research Ltd, Fort Worth, TX. *CR


6112 — D933 Contact Lens/Contact Lens solution Combinations Determine the Inflammatory Changes on the Ocular Surface: A Laser In Vivo Confocal Microscopy Study. Bernardo M. Cavalcanti1, A. Cruz1, I. Qazi1, N. Baniasadi1, M. Trinidad2, D. Critser3, C. Leach4, C.W. Sindi1, P. Hamrah1.
1Cornea/Ophthalmology, Harvard Medical School/MEEI, Boston, MA; 2Cornea / Ophthalmology, Harvard Medical Sch/MEEI, Boston, MA; 3Ophthalmology, Cornea Research, Massachusetts Eye and Ear Infirmary, Boston, MA; 4Ophthalmology, MA Eye & Ear Infirmary, Harvard Med Sch, Boston, MA; 5Contact Lens, Ophthalmology, University of Iowa, Iowa City, IA. *CR, ▶

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


6115 — D936 Surface Segregation of Chemical Moieties in Silicone Hydrogels. Scott S. Perry1, C. Argenbright1, Y. Huo1, H.A. Ketelson1. 1Materials Science and Engineering, University of Florida, Gainesville, FL; 2R & D, Alcon Research Ltd, Fort Worth, TX. *CR


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6117 — D938 Evaluation of In Vitro Cytotoxicity Assays for Contact Lens Multi-Purpose Solutions. Mercedes Salvador-Salvat et al., L.C. Huang et al., L. Hoong et al., R.M. Yetemian. 1R&D - Biological Sciences, 2Conceal R&D, 3Abbott Medical Optics (AMO), Santa Ana, CA.*CR

6118 — D939 Cytotoxic and Inflammatory Effects of Contact Lens Multipurpose Solutions on Human Corneal Epithelial Cells. Nir Erdinest, Y. Grossman, R. Harari, H. Ovadia. 1Department of Ophthalmology, 2Neurology, 3Hadassah Hebrew University Medical Center, Jerusalem, Israel.

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


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


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

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


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

526 Cornea/Anterior Segment Infection and Inflammation I

Moderator: Ashok Kumar


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. 1School of Optometry, BDepartment of Ophthalmology, Wayne State Univ School of Medicine, Detroit, MI.

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

6131 — D991 mTOR Inhibition has Similar Effects to Treatment with Substance P in the Cornea of Pseudomonas aeruginosa-Infected 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 aeruginosa keratitis. Henri Sueke, J. Shankar, T. Neal, S. Aldwinckle, C. Winstanley, S. Tuft, S.B. Kaye. 1Microbiology Ophthalmic Group, 2Ophthalmology, 3Microbiology, Royal Liverpool University Hospital, Liverpool, United Kingdom; 4Ophthalmology, University of Liverpool, Liverpool, United Kingdom; 5Ophthalmology, Moorfields Eye Hospital, London, United Kingdom. ©

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

6135 — D995 Characterization Of Pseudomonas Aeruginosa Type Three Secretory System (TTSS) Effector Molecules (Exo U/S/T) From Human Corneal Ulcer. Jeganathan lakshmi priya, R. Sivaganesa Karthikeyan, N. Venkatesh Prajna, E. Pearlman, A. Rietsch, P. Lalitha. 1Microbiology, Aravind Medical Research Foundation, Madurai, India; 2Ophthalmology and Visual Sciences, Case Western Reserve University, Cleveland, OH; 3Dept. of Molecular Biology and Microbiology, Case western Reserve University, Cleveland, OH.

6136 — D996 Interactions Of Pseudomonas aeruginosa with human corneal fibroblasts in vitro,. Ahmad Elsahn, C. Heath, M. Christodoulides, P. Hossain. 1Infection, Inflammation & Immunity, University of Southampton, Southampton, United Kingdom; 2Eye Unit, University Hospital Southampton NHS Foundation Trust, Southampton, United Kingdom.


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

6140 — D1000 Molecular Characterization of Virulence Genes Associated with MRSA Keratitis isolates. Jorge Maestre, E. Perez, M. Diaz, E. Alfonso, D. Miller. 1Ophthalmology, 2Bascom Palmer Eye Institute, 3University of Miami, Miami, FL.

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4641 — D1001 Involvement of Corneal Epithelial Cells in the TLR7 Response in an In Vitro Bacterial Inflammation Model. Isabel Arranz-Valsero,1,2,3 U. Schütze,1 L. Contreras-Ruiz,1 L. García-Posadas,1 A. Lopez-Garcia1, F. Paulsen1, Y. Diebold1. 1Ocular Surface Group, IOBA-University of Valladolid, Valladolid, Spain; 2Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Valladolid, Spain; 3Department of Anatomy and Cell Biology, Martin Luther University Halle/Wittenberg, Halle/Saale, Germany; 4Department of Anatomy II, Friedrich Alexander University Erlangen/Nuremberg, Erlangen, Germany.

4642 — D1002 Role of Antimicrobial Peptides in the Defense against E. coli infection. Satya Sree N. Kolar, H. Baidouri, A. McDermott. University of Houston College of Optometry, Houston, TX.

4643 — D1003 Reprogramming Induced by TLR2/4 Agonists Regulates Corneal Immune Responses to Fungal Infection. Xinyi Wu, J. Wang, L. Wang, Y. Li. Ophthal QLu Hosp/Ophthal, Shandong University, Jinan, Shandong, China.


4645 — D1005 Acanthamoeba Associated Microbial Communities. Darlene Miller1, J. Maestre-Mesa2, M. Diaz2, E. Perez2, V. Shestopavlov1, R. Van Gelder2, E.C. Alfonso1. 1Bascom Palmer Eye Institute, Univ of Miami Miller Sch of Med, Miami, FL; 2Ophthal, Univ of Washington School of Medicine, Seattle, WA.


4648 — D1008 Gene Transfer Of Hsv1-specific Meganuclease To The Murine Cornea Using Electroporation. Antoine Rousseau1, A. Ergani2, E.E. Gabison1, M. Corrad1, N. Huot1, M. Gaillerdet1, C. Desseaux1, B. Chapellier1, J. Roy1, M. Labetoulle2. 1Ophthal, Hosp Bicetre, South Paris University, Le Kremlin Bicetre, France; 2Laboratoire de Virologie Moléculaire et Structurale, Centre National de la Recherche Scientifique, Gif-sur-Yvette, France; 3Institut de la Vision, Paris, France; 4Cellectis Therapeutics, Paris, France; 5OPIA Therapeutics SAS, Paris, France. *CR

4649 — D1009 Bilateral Herpetic Keratoconjunctivitis in Cancer Patients. Elvia Cansecio1, J. Modak1, A. Kingham2, V. Arevalo3, S.K. Kim. 1Ophthal, UT Houston Health Science Center (UTHSC), Houston, TX; 2Ophthal, Section/Head and Neck Surgery, UT MD Anderson Cancer Center, Houston, TX. *CR

4650 — D1010 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. Barraud1, C. Mahier1, M. Gaillerdet1, C. Desseaux1, B. Chapellier1, A. Ergani1. 1Ophthal, Hosp Bicetre, South Paris University, Le Kremlin Bicetre, France; 2Ccr, upr 3296, Laboratoire de Virologie Moléculaire et Structurale, Gif sur Yvette, France; 3Hosp Bichat AP-HP Cornea, Fondation A de Rothschild, Paris, France; 4Institut de la Vision, Paris, France; 5Genomic Vision, Bagneux, France; 6Cellectis therapeutics SAS, Paris, France. *CR

4651 — D1011 CD8+ T Cells Inhibit Viral Replication but Become a Source of VEGF Expression During Corneal Herpes Simplex Type I Infection. Christopher D. Conrady1, M. Zheng2, D.U. Stone3, D.J. Carr1,2. 1Microbiology and Immunology, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK; 2Ophthal, University of Oklahoma, University of Oklahoma/Oklahoma City, OK. *CR

4652 — D1012 Protective Asymptomatic Human Leukocyte Antigen (HLA)-A*0201-Restricted CD8+ Cytotoxic T-Lymphocyte Epitopes Identified from Herpes Simplex Virus Glycoprotein B. Anthony B. Nesburn1, X. Dervillez1, A.A. Chentoufi1, G. Daspupta1, K.W. Kabbara2, M.C. Villacres1, C. Nguyen1, S.L. Wechsler1, B. Chen1,2, A. Ergani1, M. Corrad1. 1Ophthal, Univ of Miami Miller Sch of Med, Miami, FL; 2Ophthal, University of Miami Miller Sch of Med, Miami, FL.

4653 — D1013 Non-Muscle Myosin IIA Mediates HSV-1 Entry Into the Cells of the Human and Pig Corneas. Theisscar E. Antoine1,2,3, D. Shukla1,2,3. 1Ophthal, and Visual Sciences, 2Microbiology and Immunology, 3University of Illinois at Chicago, Chicago, IL.

4654 — D1014 Corneal Dendritic Cells Suppress Local Corneal Damage and Mediate Systemic Viral Dissemination in Herpes Simplex Keratitis. Kai Hu1, H. Ghiasi1, U. Von Andriani1, P. Hamrah1. 1Ophthal, Massachusetts Eye & Ear Infirmary, Boston, MA; 2Surgery/Ophthal Research, Cedars-Sinai Medical Center, Los Angeles, CA; 3Immune Disease institute, Boston, MA; 4Immune Institute Disease, Boston, MA.


4657 — D1017 Mistyping of Human Adenovirus Type 19 Associated with Epidemic Keratoconjunctivitis. Xiaohong Zhou1, C.M. Robinson1, J. Rajayya1, D. Seto1, M.S. Jones1, D.W. Dyer1, J. Chodosh1. 1Ophthal, Mass Eye and Ear - Harvard Medical School, Boston, MA; 2School of Systems Biology, George Mason University, Manassas, VA; 3Viral and Rickettsial Disease Laboratory, California Department of Public Health, Richmond, CA; 4Microbiology and Immunology, University of Oklahoma Health Science Center, Oklahoma City, OK. *CR


4659 — D1019 Treatment of VZV-induced Chronic Pain in a Rat Model of Post-herpetic Neuralgia Using Replication Defective HSV-1 Expressing the Tonal Modulator Proenkephalin. Paul R. Kinchington1, M.B. Ye1, M. Zhang2, W.F. Goin3. 1Ophthal/Mol Micro & Genetics, Univ of Pittsburgh Eye & Ear Inst, Pittsburgh, PA; 2Mol Micro & Genetics, Univ of Pittsburgh, Pittsburgh, PA.

4660 — D1020 Neutralizing Kc (ccl1) Ameliorates Recurrent Hsk. Patrick M. Stuart, D. West. Ophthal, St Louis University, St Louis, MO.


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376
Hall B/C  D1022-D1051
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


616 — D1023  Pattern of Herpetic Eye Disease In A Referral Centre In Milan, Northern Italy. Giulio Modorati, E. Misericorpa, I. Bianchi, A. Colucci, F. Bandallo. Dept of Ophthalmology, Univ Hospital San Raffaele, Milan, Italy.


616 — 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. Liang, I.U. Scott. Department of Ophthalmology, Penn State Milton S. Hershey Medical Center, Hershey, PA.

616 — D1026  Findings In Detection Of Herpesviridae By Real-time Polymerase Chain Reaction And Intracellular Antibody Production In A Case-series Of Anterior Uveitis. Maria-Helene Ererra1, P. Goldschmidt1, L. Batellier1, S. Degorce1, E. Hérot1, L. Laroché1, J.-A. Sahel1, M. Westcott1, C. Chaumeil1. 2Ophthalmology Department IV, 3Laboratory, 4Internal Medicine, 5Ophthalmology Department V, 1Hopital des Quinze-Vingts, Paris, France; 3 Moorfields Eye Hospital, London, United Kingdom.

617 — D1027  The Immune Response To 3 Different Therapies In Herpetic Stromal Keratitis. Mauricio Cedillo Sarahia, Sr1, R. Velasco Ramos, II1, S. Perez Tapia, III1, A. Babayan Sosa, IV1, O. Baca Lozada, V1, O. Fernández Viscaya, VI1, R. Suárez Velasco, V1, G. Cortés Sanchez, V1, M. Navarro Pena, V1. 1Cornea, Fundacion Hospital de Nuestra Senora de la Luz, MEXICO DF, Mexico; 2Department of Immunology, National School of Biological Sciences ENCB-IPN, MEXICO DF, Mexico.

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


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.


6172 — D1032  Growth Of Acanthamoeba On Contact Lens Storage Case Bacteria And Their Survival Within The Cyst Stage. Anthony Lam, S. Kilvington. Corneal R&D Microbiology, Abbott Medical Optics, Santa Ana, CA.

6173 — D1033  Characterization Of Bacteria From Contact Lens Storage Cases Of Corneal Infiltrative Event Patients. Simon Kilvington1, J.P. Shovlin1, M. Nikolic1. 1Corneal R&D Microbiology, Abbott Medical Optics, Santa Ana, CA; 2Northeastern Eye Institute, Scranton, PA.


6175 — D1035  Rapid Identification of Microorganisms Using the Two-Photon Ophthalmoscope. YinHong Qu1,2, K.E. Thomas2, Kinoshita1. 1Ophthalmology, Univ of Iowa, Iowa City, IA; 2Corneal R&D Microbiology, Abbott Medical Optics, Santa Ana, CA.

6176 — D1036  Reduced Corneal Inflammation By Birch Leave Extract In Combination With Sub-therapeutic Cyclosporin A. Katriin Wacker1, C. Gründemann2, R. Huber1, T. Reichard1, J. Schwartzkopff1. 1University Eye Hospital, Freiburg, Germany; 2Department of Environmental Health Sciences, University Medical Center, Freiburg, Germany.*CR

6177 — D1037  Topical sCD83 Induces Graft Tolerance In High-risk Corneal Transplantation. Felix Bock1, A. Steinkasserer2, C. Cursiefen3, E. Zinser1. 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. Wang2, J. Xu1. Ophthalmology, Eye & ENT Hospital of Fudan University, Shanghai, China; 2Ophthalmology, Eye & ENT Hospital of Fudan University, Shanghai, China.

6179 — D1039  Clinical Similarities among Meibomitis-Related Keratoconjunctivitis, Phlyctenular Keratitis and Ocular Rosacea in Childhood. Tomo Suzuki1,2, Y. Sano1, N. Yokoi1, 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 Gao1,3, L. Li4, C.W. Smith1B. 1Leukocyte 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. Niederkorn3, P. Siever1. 1Ophthalmology, University Hospital of Cologne, Cologne, Germany; 2Biological Sciences, Allergen, Inc Irvine, CA; 3Department of Ophthalmology, UT Southwestern Medical Center, Dallas, TX.*CR


6183 — D1043  Peripheral Antigen Presenting Cells Are Differentially Distributed in Normal and Inflamed Murine Corneas. Albert H. Alhalawi1, U.H. von Andrian1, P. Hanrahan2. 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.

Hall B/C  D1052-D1077
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Immunology & Microbiology / Cornea / Retina / Retinal Cell Biology / Biochemistry & Molecular Biology
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. Merle Fernandes4, A. Pathengay2, N. Kumar2, A. Cornea and Anterior Segment, #Ocular Microbiology Service, *L V Prasad Eye Institute, Visakapatnam, India; †Retina, Bascom Palmer Eye Institute, Miami, FL.


6197 — D1057 Heterogeneous Vancomycin-Intermediate Staphylococci Isolates from Endophthalmitis. Paulo J. Bispo2, D. Miller1. Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; †Universidade Federal de Sao Paulo, Sao Paulo, Brazil.

6198 — D1058 Microbiological Eradication Rates with BID or TID Dosing of Besifloxacin Ophthalmic Suspension, 0.6% in Bacterial Conjunctivitis Clinical Trials from 2004 - 2010. Kirk Bateman, T.L. Comstock, L.S. Gearinger, K. Hoffman, T. Leitch, J. Liu, A. Dick. Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.

6199 — D1059 Moxifloxacin Superior To Cefuroxime In Reducing Early-phase Adherence Of Staphylococcus Epidermidis To Hydrophobic Intracorneal Lenses. Fathalah Benbouzid1, S.A. Bajl1, F. Renaud3a, D. Hartmann3b, P. Denis1, L. Wang1B, N. Szentmáry1B, T. Eppig1C, H-J. Foth2, B. Seitz4B, M. Bischoff4A, *Department of Microbiology, †Department of Ophthalmology, –Experimental Ophthalmology, ‡Saarland University, Homburg, Germany; †Physics Department, University of Kaiserslautern, Kaiserslautern, Germany; ‡Apocare Pharma GmbH, Bielefeld, Germany; †Experimental Ophthalmology, ‡Saarland University, Homburg/Saar, Germany. *CR

6200 — D1060 N-chlortaurine,N-n-monochloro-deimethylaurine And N,N-dichloro-dimethylaurine Are Safe And Effective Bactericidal Agents In Cornea Models. Barbara Teschner1, A. Schmidt1, N. Nag1, N. Bechrazi1. Ophthalmology, †Microbiology, ‡Innsbruck Medical University, Innsbruck, Austria.

6201 — D1061 Therapeutic Effects of Topical Bacteriophage KPP12 Administration on Pseudomonas aeruginosa Keratitis in Mice. Ken Fukuda1, W. Ishida1, J. Uchiyama2, T. Morita, Y. Harada1, T. Sumi3, S. Matsuzaki4, M. Daiba1, A. Fukushina1. Ophthalmology, †Microbiology and Infection, ‡Kochi Medical School, Nankoku, Japan; ‡Kochi Medical School Hospital, Nankoku, Japan.


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

6205 — D1065 Treatment of Numular Keratitis with Intracorneal Ganciclovir. Eduardo Arenas1, A. Miett1. †ophthalmology, Santa Fe Foundation, BOGOTA, Colombia; ‡Asocornea, Bogota, Colombia.

6206 — D1066 In Vitro Effectiveness Of Photodynamic Therapy Against Multi-resistant Pathogens. Katrin Winkler1, M. Finke1, J. Wang1, N. Szentmáry1, T. Eppig2, H-J. Foth3, D. Hüttenberger4, A. Langenbucher4, B. Seitz4, M. Bischoff4A. *Department of Microbiology, †Department of Ophthalmology, –Experimental Ophthalmology, ‡Saarland University, Homburg, Germany; †Physics Department, University of Kaiserslautern, Kaiserslautern, Germany; ‡Apocare Pharma GmbH, Bielefeld, Germany; †Experimental 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. Taur1, P. Charrad1, A. Berra1. Lab de Investigaciones Oculares, Buenos Aires, Argentina; 2Bio funds, Buenos Aires, Argentina; 3Servicio de Oftalmología-Hatl.Clinicas, Buenos Aires, Argentina.

6210 — D1070 In Vitro Investigation of Riboflavin/UV-A-mediated Elimination of Acanthamoeba Castellanii. Karim Makdouni1,2, A. Backman1,2, J. Mortensen1, S. Crafoord1,2. Ophthalmology, Emory Eye Center, Portland, OR; 2Ophthalmology, BClinical Research Center, Orebro Hospital Civil, Strasbourg, France; 2Laboratoire de Treatment Using Riboflavin/UV-A (365nm) Orebro, Sweden.

6211 — D1071 In Vitro Efficacy Of Amoebicidal Treatment Using Riboflavin/UV-A (365nm) Combination. Jonathan Letch, Jr1, A. Sauer1, C. Speeg-Schatz1, A. Abou-Bakar2, E. Candolfi2, T. Bourcier1. 1Ophthalmology, Nouvel Hospital Civil, Strasbourg, France; 2Laboratoire de Parasitologie et de Mycologie Médicale, Hopitaux Universitaires de Strasbourg, Strasbourg, France.


6214 — D1074 The Effect of Low Concentrations of Benzalkonium Chloride on Acanthamoebal survival. Elmer Y. Tu1, M.E. Shoff2, C.E. Joslin2. 1Ophthalmology, University of Illinois at Chicago, Glenview, IL; 2CDHR-OSEL/DB, FDA, Silver Spring, MD; 3Ophthalmology/Vision Sciences, University Illinois at Chicago, Chicago, IL.


6216 — D1076 Systemic vs. Combination Antiviral Therapy and Retinal Outcomes in Acute Retinal Necrosis. Stephanie K. crater1, C. Flaxel1, S. Ye2. 1Ophthalmology, Casey Eye Institute, Portland, OR; 2Ophthalmology, Emory Eye Center, Decatur, GA.

6217 — D1077 Organo-selenium Coatings Inhibit Multiple Species Of Biomfil Formation On Different Types Of Ophthalmic Device Material. Kelly T. Mitchell1, P. Tran1, A. Arnett1, T. Mosley1, R. Hanes1, C. Jarvis2, A. Hamood2, L. Dominguez3, T. Reid4,5. 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, A.T. Lyon1, R.A. Lewis2, D.A. Jabs2, M-H. Heinemann2, J.P. Dunn3, J.H. Kemper4. Studies of Ocular Complications of AIDS Research Group.* Biostatistics, Epidemiology, Bloomberg School of Public Health, The Johns Hopkins University, Baltimore, MD; 2The Sidney Kimmel Comprehensive Cancer Center; 3Ophthalmology, 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; 9Ophthalmology, Epidemiology, Center for Clinical Epidemiology and Biostatistics, The University of Pennsylvania School of Medicine, Philadelphia, PA.*CR

6219 — D1079 The Best Functional Predictor of HIV Status in Relation to the Retinal Damage.Afsana Karim1, I. Kozak2, J. Results3. 1Department of Ophthalmology, University of California San Diego, La Jolla, CA; 2Department of Ophthalmology, University of Southern California, Los Angeles, CA; 3UCSD Jacobs Retina Center, Ophthalmology, University of Pennsylvania School of Medicine, Philadelphia, PA.*CR


6221 — D1081 Association between HIV Microangiopathy and Systemic Complications in Patients with AIDS. Yuko Iwasaki1,2, N. Yamamoto1, T. Kawaguchi1,2, N. Ozaki1, M. Mochizuki1, K. Murakami1. Ophthalmology, 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. Nkomazana2, S.H. 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 Retrovirus-induced Immunosuppression (MAIDS). Hsin Chien1, E.L. Blalock1, L.R. Bush1, C.J. Alston1, 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 Retrovirus-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.
6227 — D1087 Characteristics of Suppressor of Cytokine Signaling (SOCS)1 and SOCS3 Expression in Response to Murine Cytomegalovirus (MCMV) Infection During Health and Retrovirus-Induced Immunosuppression (MAIDS). Christine I. Alston1, H. Cho1, E.L. Blalock1, R.D. Divi2.
1Department of Biology, Viral Immunology Center, Georgia State University, Atlanta, GA; 2Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA.

Hall B/C D1088-D1116

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

Immunology & Microbiology / Cornea / Retina / Retinal Cell Biology

530 Autoimmune Ocular Disease

Moderator: Dale Gregerson


6231 — D1091 Regulatory T-Cells In Peripheral Blood of Patients With Birdshot Retinonchoroidopathy. Sara S. Siddique1, L. Amorese1, L. Almulki2, A. Suelves3, C. Foster4.

6232 — D1092 Clinical Course of Patients with Behcet’s Uveoretinitis that Discontinued Immfliximab Therapy. Tatsumi Kiwaguchi1, Y. Iwasaki1, S. Kanda2, S. Sugita3, M. Mochizuki2.
1Ophthalmology, Tokyo Metropolitan Komagome Hospital, Tokyo, Japan; 2Ophthalmology & Visual Science, Tokyo Medical and Dental University, Tokyo, Japan.

1Ophthalmology, University of Aberdeen, Aberdeen, United Kingdom; 2Lion Eye Institute, University of Western Australia, Nedlands, Western Australia, Australia; 3Rockefeller University, New York, NY.

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

1Neurology, Herbert Wertheim College of Medicine-Florida International University, Miami, FL; 2Ophthalmology, Bascom Palmer Eye Institute, Miller School of Medicine, Miami, FL.

6236 — D1096 Effect Of P2Y2 Deficiency On Experimental Autoimmune Uveitis Development. Laure E. Caspers1, L.J. Belvas1, R. Devisselaere1, M. Makhou1, D. Communi2, J-M. Boeynaems2, B. Robaye2, C. Bruyns2, E. Willermain1. Ophthalmology, Univ of Brussels-St Pierre Hosp, Brussels, Belgium; 1Univ 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. Nagineni, C. Rock, AR.

6239 — D1099 DAP-12, a Major Immunomediator, Either Promotes or Suppresses EAU Development. Barbara P. Vistica1, V. Montalvo-Reddin1, G. Shi1, L. Nugent1, L. Quigley2, D.W. McVicar3, J. Gery1. 1Lab of Immunology, National Eye Institute, Bethesda, MD; 2Cancer and Inflammation Program, NCI-Frederick, Frederick, MD.

6240 — D1100 Inhibition of CdK5 Attenuates Experimental Autoimmune Uveitis. Zili Zhang1, W. Xu1, J. Duan1, J.T. Rosenbaum2.
1Pediatrics, Oregon Health & Science University, Portland, OR; 2Ophthalmology, Casey Eye Institute-OHSU, Portland, OR.

6241 — D1101 Immunological Inhibition of Pigment Epithelium-Derived Factor (PEDF)? Charles E. Thirkill. Ocular Immunology Research Lab 1220 Surge III, UC Davis, Davis 95616, CA.

6242 — D1102 Label-free LC-MSMS-based Differential Proteome Analysis of Vitreous from Autoimmune Uveitis Cases. Stefanie M. Hauck1, F. Hofmann1, J. Dietter1, M. Blinder2, E. Kremmer1, M.E. Swadźba2, B. Amann3, C.A. Deeg3, M. Ueffting3.
1Department of Protein Science, Helmholtz Center Munich, Neuhberg, Germany; 2Department for Veterinary Sciences, Institute of Animal Physiology, Munich, Germany; 3Centre for Ophthalmology, Institute for Ophthalmic Research, Tubingen, Germany; 4Institute for Molecular Immunology, Helmholtz Center Munich, Munich, Germany.


6244 — D1104 Amelioration of Experimental Autoimmune Uveoretinitis by Inhibition of Toxic AGEs Formation. Zhenyu Dong1,2, N. Kitaiuchi1,2, D. Iwata1,3,4, R. Ando1,2, J. Fukushima1,2,4, A.M. Lennikov5,6, A. Kanda1,2, K. Noda1,2, S. Ohno6, I. Ishida1,2,3.
1Department of Ophthalmology, 2Laboratory of Ocular Cell Biology and Visual Science, 3Department of Ocular Inflammation and Immunology, 4Hokkaido University Graduate School of Medicine, Sapporo, Japan; 5Department of Ophthalmology, Health Sciences University of Hokkaido, Sapporo, Japan.


6246 — D1106 Ocular Immune Pathological Analysis in a Murine Model of Anterior Scleritis. Hiroko Taniguchi1, W. Wang1, A. Nakajima2, J. Hori3.
1Ophthalmology, Nippon Medical School, Tokyo, Japan; 2Rheumatology, 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. Tauber1, S. Foster3.
1Instituto Clinico Oftalmologia, Hospital Clinico Oftalmologia, Barcelona, Spain; 2Ophthalmology, Massachusetts Eye Research and Surgery Institution, Cambridge, MA; 3Ophthalmology, Bay-View Clinic, Mumbai, India; 4Ophthalmology, Tauber Eye Center, Kansas City, MO; 5Ophthalmology, 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 380
Hall B/C  D1117-D1152
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Physiology & Pharmacology

531 Inflammation and Infection

Moderators: Regis P Kowalski and Franz H Grus


6259 — D1119 In Vitro Activity of ACH-0139586, a Novel Isothiazoquinolone, Methylxofacin and Gatifloxacin Against Clinical Isolates, Including Methicillin and Fluoroquinolone Resistant. Aron Shapiro1, L. Belen2, A. Whlilock3, D. Salme3. Ora, Inc., Andover, MA; * Eurofins Medinet, Chantilly, VA. *CR

6260 — D1120 A Novel Antiviral Protein RC28. Naihong Yan1, F. Piraino2, X. Liu1. Ophthalmic Laboratories, Chengdu, China; 2Department of Ophthalmology and Visual Sciences, University of Wisconsin Medical School, WI.

6261 — D1121 Clinical utility of Ophthalmic Antimicrobial Susceptibility Measurement Plate. Norihiko Tou1, R. Nejima2, Y. Ikeda3, Y. Horii1, K. Sasaki1, M. Sakamoto1, K. Miyata2, Y. Inoue1, A. Tawara1, H. Fujivara1. Ophthalmology, Univ of Occup & Environ Health, Kitakyushu, Japan; 2Miyata Eye Hospital, Miyazaki, Japan; 3Department of Ophthalmology, Tottori Univ Faculty of Medicine, Yonago, Japan; 4Ophthalmology, Toho University Sakura Medical Center, Sakura Medical Center, Sakura, Japan; 5Iida Eye Hospital, Kumamoto, Japan; 6Ophthalmology, The Research Foundation for Microbial Diseases of Osaka University, Osaka, Japan; 7Department of Clinical Laboratory, Tottori University Hospital, Yonago, Japan.


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


6265 — D1125 Effect of Simultaneous Treatment of Quinolones and Antifungal Drugs on Fungal-Bacterial Co-culture. Diana Gabriela Ponce-Angulo, Jr1, 2, M. Martinez-Rivera, Sr.2, V. Baustista-de Lucio, Sr.1, A. Rodriguez-Tovar, Sr.2, C. Santacruz-Valdez, Sr.1, A. Climent-Flores, Sr.1, 2, A. Robles-Contreras, Jr.1, 2, C. Diaz-Godinez, Jr.1, 2, E. Felix Diaz-Parga, Jr.1, H. Mejia-Lopez, Sr.1, 2. 1Research Unit / Microbiology and Proteomics, *Cornea service, 2Institute of Ophthalmology, Mexico, D.F., Mexico; 3Laboratory of Medical Mycology, Department of Microbiology, National School of Biological Sciences (IPN), Mexico, D.F., Mexico.

6266 — D1126 Lacritin, a Novel Tear Glycoprotein, is an Effective Topical Antimicrobial Agent in an Animal Model, Alireza Hosseini1, F.A. Lattanzio, Jr.1, S.S. Samudre1, J.D. Sheppard, Jr.1, J.W. Laurie2, R.L. McKown3, H. Williams1. Physiological Sciences, Eastern Virginia Medical School, Norfolk, VA; ‘Virginia Eye Consultants, Norfolk, VA; ‘Cell Biology, University of Virginia, Charlottesville, VA; ‘Integrated Science & Technology, James Madison University, Harrisonburg, VA.

6267 — D1127 Susceptibility Of Methicillin-resistant Staphylococci Clinical Isolates To Nitrlinicin And Other Antibiotics Commonly Used In Ophthalmic Therapy. Anna Rita Bianco14, A. Sudano Roccavo14, V. Papa14, M. Mazzone14. 1Pharmaco Biology Unit - BU Pharma, 2Medical Marketing - BU Pharma, 3Product Portfolio Development - BU Pharma, 4SIFI SPA, Catania, Italy. *CR

6268 — D1128 Clinical Efficacy and Safety of Azithromycin 1.5% versus Tobramycin 0.3% Eye Drops in the Treatment of Children Bacterial Conjunctivitis. Dominique Bremond-Gignac1, F. Chiambaretta2, H. Nezzar2, B. Mortemousque1, C. Speeg-Schatz3, S. Milazzo1. Azithromycin Study Group. 1Ophthalmology, St Victor Center, CHU Amiens, Picardie University, Amiens, France; 2Ophthalmology, CHU Clermont Ferrand, Clermont Ferrand, France; 3Ophthalmology, CHU Bordeaux, Bordeaux, France; 4Ophthalmology, CHU Strasbourg, Strasbourg, France; 5Ophthalmology/Saint Victor Center, CHU Amiens, University Jules Verne, Amiens, France. *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

381
**6269 — D1129** Increased Antibiotic Resistance Of Ocular Surface Flora After Repeated Use Of Prophylactic Topical Fluoroquinolone Post-Intraocular Injection For Neovascular Age-related Macular Degeneration (amd). Vivian T. Yin1, D. Weisbrod1,2, E. Mandelcorn1,3, C. Schwartz2, R. Kohly2,3, K. Eng1, W-C. Lam1,3, P. Kertes1,3. 1Department of Ophthalmology, University of Toronto, Toronto, ON, Canada; 2Sunnybrook Health Sciences Center, Toronto, ON, Canada; 3Toronto Western Hospital, University Health Network, Toronto, ON, Canada. *CR,

**6270 — D1130** Multicenter Comparison of Loteprednol 0.5% vs Prednisolone Acetate 1% in patients Post-Phacoemulsification with IOL implants. Carlos Buznego1, G. Perez, W. Trattler, J.A. Khell1, B. Henderson1. 1General & Surgical Ophthalm, Center for Excellence in EyeCare, Miami, FL; *Ctr for Excellence in Eye Care, Miami, FL; 2Cornea, Center For Excellence in Eye Care, Miami, FL, FL; *Ophthalmology/Cornea, Center for Excellence in Eyecare, Miami, FL; 2Boston Eye Surgery and Laser Center, Boston, MA. *CR,


**6272 — D1132** Retinal Damage in Severe Chemical Burn and the Use of Infliximab Therapy. Fabiano Cadle1,2, E. Paschalis1, C.V. Regattieri1,2, R. Dana1, C.H. Dohlmans1. 1Cornea and Refractive Surgery, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston, MA; 2Department of Ophthalmology, 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. Gramlich1, H.D. von Pein1, A. Ziegler1,4, K. Biz1, N. Pfeiffer1,4, F.H. Gruss1,4. 1Experimental Ophthalmology, 2Department of Neuropathology, 3University Medical Center, Mainz, Mainz, Germany.


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

**6276 — D1136** Amelioration of Endotoxin-induced Uveitis Treated With An Ikb Kinase Inhibitor, Imd-0354 In Rats. Anton Lennikov1, N. Kitachi2, K. Noda2, R. Ando4, Z. Dong4, K. Nambara1, K. Nambara1, S. Ohno3, S. Ishida1. 1Laboratory of Ocular Cell Biology and Visual Science, Department of Ophthalmology, 2Department of Ocular Inflammation and Immunology, 3Hokkaido University, Sapporo, Japan; 4Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 2Wakase Seikatsu Co., Ltd., Kyoto, Japan. *CR

**6277 — D1137** Lutein-rich Marigold Extract Induces Gene Expression Of Phase II Antioxidants In The PC12D Neuronal Cells. Seiji Miyake1,2, N. Takahashi1,2, M. Sasaki1,4, S. Kobayashi1, K. Tsutsumi1, Y. Ozawa1,4. 1Laboratory of Retinal Cell Biology, 2Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 3Wakase Seikatsu Co., Ltd., Kyoto, Japan. *CR

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

**6279 — D1139** Topical Application Of Infliximab (Remicade®) In The Treatment Of Corneal Cautis. Fabio Bignami1, G. Ferrari1, C. Giacomin1, S. Franceschi1, P. Rama1. 1Cornea Unit - Eye Repair Lab, 2Ophthalmic and Ocular Surface Unit, 3San Raffaele Scientific Institute, Milan, Italy; 2Bietti Eye Foundation, Rome, Italy.

**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. Sania Yazid1, A. Leonard1, V. Calder1, R. Flower1. 1Molecular Therapy, UCL, Institute of Ophthalmology, London, United Kingdom; 2School of Medicine, University of Padua, Padua, Italy; 3Biochemical Pharmacology, QMUL, William Harvey Research Institute, London, United Kingdom.

**6281 — D1141** HC-BA but not High Molecular Weight HA Polarizes LPS-Activated Macrophages toward M2 Phenotype via CD44-Mediated Suppression of TLR4 Signaling. Hua He1, S.C. Tseng1. 1TissueTech and Ocular Surface Center, Miami, FL; 2Ocular Surface Center, Ocular Surface Res & Edu, Ftin, Miami, FL.*CR

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

**6283 — D1143** Viscoelastic And Sedimentation Characterization Of Loteprednol Etabonate Ophthalmic Gel, 0.5%. Martin J. Coffey, S.R. Davio. Pharmaceutical Product Development, Bausch and Lomb, Rochester, NY.*CR

**6284 — D1144** A Novel Peptide Inhibits Inflammation in Endotoxin-induced Uveitis by Suppressing NF-κappaB 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 Acetonide (Retisert) And Dexamethasone (Ozurdex) Implants In Uveitis. Cheryl A. Arcinue1, C. Foster1, O. Cerone1, L. Almuli2 1Uveitis and Ocular Immunology, Massachusetts Eye Research & Surgery Institute, Cambridge, MA; 2Ophthalmology, Massachusetts Eye and Ear Infirmary, 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. Yoned1, Y. Yoshimura1, K-H. Sonoda1, S. Kinosita2 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 Grassdorf1, J. Kouters1, J. Rozema1, N. Cools3, V. Van Tendeloo1, Z. Berneman1, M-J. Tassignon1. 1Ophthalmology, 2Statistics, 3Center for Cell Therapy and Regenerative Medicine, 1University Hospital Antwerp, 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. Fugino1, Y. Yang1. 1Ophthalmology, Tokyo KoseiNenkin Hospital, Tokyo, Japan; 2Ophthalmology, University of Tokyo, Tokyo, 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
Cytokine Profile In Active Ocular Toxoplasmosis. Amanda Rey Torrente, B. Molins, V. Llorens, L. Pelegrín, M. Mesquida, M. Figueras, A. Adín Civera. Ophthalmology, Hospital Clinic Barcelona, Barcelona, Spain.
**Moderators: John Flannery and Faizah N Bhatti**

**6293 — 11:15 Tyrosinase Function Determines Retinal Vascular Regeneration and Retinal Vascular Endothelial Progenitor Cell Recruitment in the Oxygen-Induced Retinopathy Model.**

Robert C. Symons1, R.S. White2, B.E. O’Brhyin1. Ophthalmology, Kansas University Medical Center, Prairie Village, KS; 1Pediatrics, University of Kansas Medical Center, Kansas City, KS; 2Ophthalmology; 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’Brhyin1, R. White1, A. Symons2. Molecular & Integrative Physiology, Univ of Kansas Medical Center, Kansas City, KS; 2Pediatrics, Univ of Kansas Medical Center, Prairie Village, KS.

**6295 — 11:45 Altered Vascular Response in MicroRNA 132-212 Knockout Mice in the Model of Oxygen-Induced Retinopathy.**

Jason J. Nichols1, K.E. Osborn2, T. Powers1, M.H. Davies1, S.T. Magill1. Pediatrics & Ophthalmology, Casey Eye Institute-OHSU, Portland, OR; 1Vollum Institute-Oregon Health & Science University, Portland, OR.

**6296 — 12:00 Activation of the Endothelin System in Models of Ischemic Retinopathy.**

Chintan Patel1, W. Zhang2, Z. Xu3, S.P. Narayanan1, N-T. Tsai1, W. Caldwell4, R.B. Caldwell4. 1Vascular Biology Center, #Pharmacology & Toxicology, 1Georgia Health Sciences University, Augusta, GA; 2Ophthalmology, The University of Texas Medical Branch, Galveston, TX.

**6297 — 12:15 Progressive Central Photoreceptor Damages and Retinal Pigment Epithelial Abnormalities in Oxygen Induced Retinopathy.**

Zhao Shao1, J. Rivera2, T.E. Zhou2, P. Sapieha1, P. Lachapelle1, S. Chometb1. 1Pediatrics and Therapeutics, McGill University, Montreal, QC, Canada; 2Departments of Pediatrics and Pharmacology, Hôpital Ste Justine, Research Center, Montreal, QC, Canada; 3Ophthalmology, University of Montreal, Montreal, QC, Canada; 3Pediatrics & Pharmacology, Research Ctr/Hosp Ste Justine, Montreal, QC, Canada.

**6298 — 12:30 Neurin-1 Promotes Vascular Regeneration in a Mouse Model of Ischemic Retinopathy.**

Francois Binet1, G.S. Mawambo-Tagne1, S. Favret1, N. Situ2, N. Tétreault1, A. Cerani1, E. Lapalme1, F. Rezende1, T. Kennedy2, P. Sapieha1. 1Research Center, Maisonneuve Rosemont Hospital, Montreal, QC, Canada; 2Montreal Neurological Institute, McGill University Montreal, QC, Canada.

**6301 — 11:30 Impact of a Novel Silicone Hydrogel Material on Meibomian Gland Structure.**

Jason J. Nichols1, K.E. Osborn2, T. Powers1, M.H. Davies1, S.T. Magill1. Pediatrics & Ophthalmology, Casey Eye Institute-OHSU, Portland, OR; 1Vollum Institute-Oregon Health & Science University, Portland, OR.

**6302 — 11:45 A Novel Method of Measuring Tear Evaporation Rates Using Infrared Thermography.**

Andrea Petznick1, S. Lee1, J. Tan1, U. Acharya1, E. Ng1, L. Tong1. 1Ocular Surface Research Group, Singapore Eye Research Institute, Singapore, Singapore; 2School of Engineering, Ngee Ann Polytechnic, Singapore, Singapore; 3Singapore Institute of Technology, University of Glasgow, Glasgow, United Kingdom; 4School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore, Singapore; 5Cornea and External Eye Disease Service, Singapore National Eye Centre, Singapore, Singapore.

**6303 — 12:00 Keratoconus Detection by Corneal Epithelial Thickness Mapping with Fourier-Domain Optical Coherence Tomography.**

Yan Li1, O. Tan1, R. Brass1, 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.**

Xiomara Calderon-Colon1, Z. Xiu1, Q. Guo1, J.E. Tifflay1, J.P. Maranchi2, R.L. McCully3, O. Schein1, J.H. Eliesseff4, M.M. Treadler1. 1Research and Exploratory Development, Johns Hopkins Univ - APL, Laurel, MD; 2Department of Biomedical Engineering, Johns Hopkins University, Baltimore, MD; 3The Wilmer Eye Institute at Johns Hopkins, Baltimore, MD; 4Department of Ophthalmology, Johns Hopkins University, Baltimore, MD.

**6305 — 12:30 Mechanical Corneal Sculpting As New Technique For Refractive Surgery.**

Wolfgang Herrmann1, S. Gebauer1, A. Dannulli2, J. Schroeder1, H. Maas1, H. Helbig4, O. Strauss3. 1Ophthalmology, University Hospital Erlangen, Erlangen, Germany; 2Deutsche Gesellschaft für Gewebetransplantation (DGFG), Hannover, Germany.

**6306 — 12:45 A Novel Method to Generate Precut Tissue for Dexamethasone Membrane Endothelial Keratoplasty (DMEK).**

Bjoern O. Bachmann1, U. Schlöter-Schrehardt1, M. Börgel2, F.E. Kruse3. 1Ophthalmology, University hospital Erlangen, Erlangen, Germany; 2Deutsche Gesellschaft für Gewebetransplantation (DGFG), Hannover, Germany.

**533 New Technologies in Corneal Disease**

**534 Ocular Immune Responses**

**Moderators: Holly L Rosenweig and Paul G McMenamin**

**6307 — 11:15 The Role of Interleukin-17A in a Spontaneous Model of Autoimmune Uveitis Elicited by Retina-specific T Cells.**

Benjamin C. Chao1, R. Horai1, J. Chen1, C. Zárate-Blades1, R. Villasmil1, C-C. Chan1, R.R. Caspi1. 1Laboratory of Immunology, 2Flow Cytometry Core, 3National Eye Institute - NIH, Bethesda, MD; 4Howard Hughes Medical Institute, Bethesda, MD.

**6308 — 11:30 Abundant II-17+ T Cells Induced In Immunized C57BL/6 Mice Are Not Autoreactive.**

Domingo Sui1, D. Liang1, A. Zuo1, H. Shaoh1, H.J. Kaplan1, H. Nian1. 1DVRC-411, Doheny Eye Institute, Los Angeles, CA; 2ophthal & Visual Sciences, University of Louisville, Louisville, KY; 3ophthal & Vis Science, University of Louisville, Louisville, KY.

**6309 — 11:45 Identification of a MC5r+**

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 Institute, Boston, MA.

6311 — 12:15 ACAID Tolerogenic APC Induce Two Types Of CD4+ T 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 Chen1, H.R. Chinnery2, J. Kezic3, M. Sidhu4, C. Bernard5, J.V. Forrester6, P.G. McMenamin1. 1Anatomy and Developmental Biology, 2School of Medicine and Stem Cell Laboratories, 3Monash University, Clayton, Australia; 4Centre for Ophthalmology and Vision Sciences, University of Western Australia, Perth, Australia.

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

Moderators: Michael A Walter and Tonja S Rex

6314 — 11:15 Innate Immune Network in the Retina Activated by Optic Nerve Crush. Eldon E. Geisert1, J. Templeton2, J.M. Nickerson2, X. Wang3, M.M. Jablonski4, R.W. Williams5, T.S. Rex6. 1Ophthalmology, Univ of Tennessee Health Sci Ctr, Memphis, TN; 2Ophthalmology, University of Arizona, Tucson, AZ; 3Emory University School of Medicine, Atlanta, GA; 4Institute of Experimental Ophthalmology, Ophthalmology, University Hospital Essen, Essen, Germany; 5School of Biology, Georgia Institute of Technology, Atlanta, GA; 6Department of Genetics, Stanford University School of Medicine, Palo Alto, CA.

6315 — 11:30 Hmg-h1 Induces Apoptosis In Retinal Ganglion Cells And Intraocular Inflammation By Activation Of Tlr4 And Cytokine Release. Maurice Schallenberg1, J.L. Vartanian1, B.E. Reese1. 1Department of Ophthalmology, New York University School of Medicine, Palo Alto, CA.

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

6317 — 12:00 Amyloid Fibril Formation By The Olfactomedin Domain Of Myocilin. Raquel L. Lieberman1, S.D. Orwig1, C.W. Perry1, L.Y. Kim2, K.C. Turnage2, R. Zhang3, D. Vollrath4, I. Schmidt-Krey5. 1School of Chemistry & Biochemistry, 2School of Biology, Georgia Institute of Technology, Atlanta, GA; 3Department of Genetics, Stanford University School of Medicine, Palo Alto, CA.

6318 — 12:15 Clusterin In Age-Related Ocular Exfoliation Syndrome. Jorge Ghiso1, I. Doudcovska2, M. Cowman1, J. Liebmann3, C. Tello3, C. Teng3, R. Ritch1, A. Rostagno1. 1Pathology, New York University School of Medicine, New York, NY; 2Chemical and Biological Sciences, Polytechnic Institute of New York University, New York, NY; 3Einhorn Clinical Research Center, New York Eye and Ear Infirmary, New York, NY.

6319 — 12:30 LOXL-1-Associated Pathomechanisms in Exfoliation Syndrome. Katalin Csizsar1, R. Laczkov1, K. Molnarne Szather1, R. Ritch1. 1John 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. 1Medical Genetics, 2Surgery, 3Univ of Alberta, Edmonton, AB, Canada.

Room 315
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Visual Neurophysiology
536 Horizontal and Amacrine Cells: Structure and Function

Moderators: Z Jimmy Zhou and Bryan W Jones

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


6326 — 12:30 Dopaminergic Amacrine Cells Are Inhibited by Melatonin through Activation of MT1 and MT2 Receptors In The Mammalian Retina. Jie Feng1,2, C.L. Atkinson3, D-Q. Zhang4. 1Eye Research Institute, Oakland University, Rochester, MI; 2Department of Physiology and Pathophysiology, Xi’an Jiaotong University School of Medicine, Xi’an, China.

6327 — 12:45 Genetic Modulation of the Ratio of Cholinergic Amacrine Cells in the GCL and INL of the Mouse Retina. Irene E. Whitney1,2, J. Rafter1, B.E. Reese1,3. 1Molecular, Cellular, and Developmental Biology, 2Neuroscience Research Institute, 3Psychological and Brain Sciences, University of California, Santa Barbara, CA.

Palm A
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Visual Psychophysics & Physiological Optics
537 New Directions for Bifocality, Multifocality and Restoration of Accommodation

Moderators: Jim Schwiegerling and Sanjeev Kasthuriarangan

6328 — 11:15 Optimizing Modified Monovision to Improve Binocular Through-Focus Visual Performance. Len Zheleznyak1, R. Sabesan1, S. MacRae2, G. Yoon3. 1The Institute of Optics, 2Flaum Eye Institute, 3University of Rochester, Rochester, NY. *CR

6329 — 11:30 Depth Of Focus With Induced Coma At Different Orientations. Christina Schwarz1, C. Canovas2, S. Manzanera3, P.M. Prieto1, H.A. Weeber4, P.A. Piers2, P. Artaud1. 1Laboratorio de Optica, Universidad de Murcia, Murcia, Spain; 2R&D, Abbott Medical Optics, Groningen, The Netherlands. *CR

6330 — 11:45 Visual Outcomes Following Bilateral Implantation of a Trifocal Intracocular Lens. Sunil Shah1, A.L. Sheppard2, U. Bhatt2, J.S. Wolffsohn1. 1Midland 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. McCafferty. Optical Sciences, University of Arizona, Tucson, AZ. *CR

*CR* refers to program number in the commercial relationships (CR) Index for Disclosures. *CR* refers to program number in the clinical trial (CT) registration index. *TR* Travel Grant Awardee.


6334 — 12:45 Range of Vision Provided by Dual-Optic Accommodating Intraocular Lens. Sanjeev Kasthurirangan1, L.G. Vargas2, V. Bohorquez3, R. Alarcon3. 1R&D, Abbott Medical Optics, Milpitas, CA; 2R&D, Abbott Medical Optics, Santa Ana, CA; 3Department of Ophthalmology, Serviooftalmos, Bogota, Colombia. *CR, ✔

Grand A

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

Eye Movements, Strabismus, Amblyopia & Neuro-Ophthalmology

538 Strabismus II

Moderators: Vallabh E Das and Linda K McLoon


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

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


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

6341 — 12:45 Sustained IGF-I Treatment Improves Eye Alignment in Adult Strabismic Monkeys. Linda K McLoon1, C.L. Willoughby, S.P. Christiansen2, V.E. Das1, M.J. Mustard3. 1Ophthalmology, University of Minnesota, Minneapolis, MN; 2Ophthalmology, Boston University School of Medicine, Boston, MA; 3College of Optometry, University of Houston, Houston, TX; 4Ophthalmology, University of Washington, Seattle, WA.

Grand B

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

Clinical & Epidemiologic Research

539 Diabetes and Retinal Disease

Moderators: Tunde Peo and Gavin S Tan

6342 — 11:15 Retinal Microvascular Signs and 5-year Incidence of Stroke: The Singapore Malay Eye Study. Carol Y. Cheung1, W. Tay1, M. Ikrar1, E. Tai1, T.Y. Wong1. 1Singapore Eye Research Institute, Singapore, Singapore; 2Department of Ophthalmology, 3Department of Medicine, 4Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore.


6344 — 11:45 Prevalence, Causes and Risk Factors for Visual Impairment in a Multi-ethnic Asian Population with Diabetes. Gavin S. Tan1, Y. Zheng1, W-L. Wong1, M.K. Ikrar1, E.L. Lamoureux, III1, P. Mitchell1, J.J. Wang1, T.Y. Wong1. 1Singapore Eye Research Institute, 2Singapore National Eye Centre, Singapore; 3Singapore Eye Research Institute, Singapore, Singapore; 4Ophthalmology, University of Montreal, Montreal, Canada; 5Department of Ophthalmology, 6Dept of Medicine, 7Yong 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, S. Polack2, H. Kuper1, N. Cockburn1, P. Gomez2, M. Rabiu1. 1Tennent Institute of Ophthalmology, Gartnavel Hospital, Glasgow, United Kingdom; 2London School of Hygiene & Tropical Medicine, International Centre for Eye Health, London, United Kingdom; 3University of Cape Town, Cape Town, South Africa; 4Instituto de la Vision Universidad de Montemorelos, Montemorelos, N.L., Mexico; 5Prevention of Blindness Union, Riyadh, Saudi Arabia.

6346 — 12:15 The Responsiveness of the National Eye Institute Visual Function Questionnaire-25 (NEI VFQ-25) to Visual Acuity Gains in Diabetic Macular Edema Patients. Adam Turpezi1, S. Colman1, I.J. Saner2, N.M. Bressler1, R. Varma3, P. Lee4, C. Dolan5, J. Ward6, L. Yau7. 1Genentech, South San Francisco, CA; 2 retina Associates of Florida, Tampa, FL; 3Ophthalmology, Wilmer Eye Institute, Baltimore, MD; 4Ophthalmology, USC, Doheny Eye Institute, Los Angeles, CA; 5Duke University Eye Center, Durham, NC; 6CMD Consulting, Palo Alto, CA. *CR, ✔

6347 — 12:30 Longitudinal Changes In Retinal Vascular Caliber Measurements In Children And Its Relationship With Cardiovascular Risk Factors. Emil D. Kurniawan1, N. Cheung1, W. Tay2, C.Y. Cheung2, P. Mitchell3, S.M. Saw2, T.Y. Wong2. 1Centre for Eye Research Australia, Royal Victorian Eye and Ear Hospital, Melbourne, Australia; 2Singapore Eye Research Institute, Singapore, Singapore; 3Department of Ophthalmology, University of Sydney, Sydney, Australia; 4Department of Epidemiology and Public Health, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore.


Grand D

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

Glaucoma / Clinical & Epidemiologic Research

540 Advances in Glaucoma Surgery

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

6349 — 11:15 Regional Variations In The Rate Of Laser Trabeculoplasty In The Medicare Population. Henry D. Jampel1, S.D. Cassard2, D.S. Friedman1, H.A. Quigley1, E.W. Gower. 1Glaucoma Center of Excellence, 2Dana Center for Preventive Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD; 3Epidemiology and Prevention, Wake Forest School of Medicine, Winston-Salem, North Carolina, MD.
Thursday – Papers – 6350 – 6362

6350 — 11:30  Transient Corneal Endothelial Changes Associated With Selective Laser Trabecuoplasty. Andrew J. White1, A. Mukherjee2, I. Hanspal3, N. Sarkies1, K.R. Martin1, P. Shah1,4.
1Ophthalmology, Cambridge University Teaching Hospitals NHS Foundation Trust, Cambridge, United Kingdom; 2NIHR Biomedical Research Centre, University of Cambridge, Cambridge, United Kingdom; 3Ophthalmology, NIHR BRC Centre, University of Cambridge, Cambridge, United Kingdom; 4Ophthalmology, Moorfields Eye Hospital & UCL Institute of Ophthalmology, London, United Kingdom; Ophthalmology, University Hospitals Birmingham NHS Foundation Trust, Birmingham, United Kingdom.

6351 — 11:45  A Prospective Randomized Clinical Trial of Selective Laser Trabecuoplasty versus Argon Laser Trabecuoplasty in Open Angle Glaucoma and Ocular Hypertension Secondary to Pseudoexfoliation. Francie F. Si1, S. Kent1, C.M. Hutnik1, K. Damji1, P. Harasymowycz2, W.G. Hodge1, Y.I. Pau1, A. Crichton1.
1Ophthalmology, University of Western Ontario, London, ON, Canada; 2Ophthalmal & Vis Sciences, University of Toronto, Toronto, ON, Canada; 3Ophthalmology, University of Alberta, Edmonton, AB, Canada; 4Ophthalmology, University of Montreal, Montreal, QC, Canada; 5Ophthalmology, University of Calgary, Calgary, AB, Canada.

6352 — 12:00  Targeting Placental Growth Factor (PIGF) with an Inhibitory Monoclonal Antibody (5D11D4): New Therapeutic Approach for Glaucoma Filtration Failure. Tine Van Bergen1,2, B. Joncks1, S. Van de Velde1,2, K. Hollanders1,2, D. Sijnave1, E. Vandewalle1, L.K. Moons2, J-M. Stassen1, J. B. Stalmans1.

Ocular Wound Healing & Therapeutics, Gene Expression. Li-Fong Seet, S.N. Finger, T.T. Wong. Ocular Wound Healing & Therapeutics, Singapore Eye Research Institute, Singapore, Singapore.

Department of Ophthalmology, Norfolk & Norwich University Hospital, Norwich, United Kingdom.

6355 — 12:45  Three Year Results of the Ahmed Baerveldt Comparison (ABC) Study. Donald L. Budenz1, K. Barton1, W.J. Feuer2, J.C. Schiffman1, V.P. Costa1, D. Godfrey1, Y.M. Buys1, Ahmed Baerveldt Comparison Study Group.
1Ophthalmology, University of North Carolina, Chapel Hill, NC; 2Gluacoma Service, Moorfields Eye Hospital, London, United Kingdom; 3Biostatistics, Univ of Miami- Bascom Palmer, Miami, FL; 4Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 5Ophthalmology, University of Campinas, Sao Paulo, Brazil; 6Glaucoma Associates of Texas, Dallas, TX; 7Ophthalmology & Vision Sciences, University of Toronto, Toronto, ON, Canada.

Grand H
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Retina
541 Retinal Detachment III

Moderators: Stanislao Rizzo and Howard F Fine

1Retina, Wills Eye Institute, Philadelphia, PA; 2Ophthalmology, University of Alberta, Edmonton, AB, Canada.

Vitreo-Retinal, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands.

Ophthalmology, Northwestern University, Chicago, IL.

6359 — 12:00  Postoperative Retinal Function After Recent-onset Retinal Detachment In Relation To The Topography Of The Affected Quadrants. Marcos J. Rubio Caso1, M. Martin-Baranera2, N. Vila Grane1, L. Arias Barquet1, J. Caminal Mitjana1, J. Catala Mora1, P. Garcia Bru1, O. Pujol Gayta1, J. Arruga Ginebreda1, J. Garcia-Arumi1.
1Ophthalmology, Hospital Universitari de Bellvitge, Barcelona, Spain; 2Epidemiology, Consorci Sanitari Integral, Barcelona, Spain; 3Ophthalmology, Hospital Vall d’Hebron, Barcelona, Spain.

6360 — 12:15  Retinal MMP12/MMP13 And TIMP1/TIMP2 Expression In Experimental Murine Retinal Detachment. Colleen M. Cebulla1, B. Kim1, T. Wang1, S. Pous1, M.H. Abdel-Rahman1, A.J. Fischer1.
1Ophthalmology, 2Ophthalmology and Division Human Genetics, Neuroscience, Ohio State University, Columbus, OH.

6361 — 12:30  Protective Role of Soluble FasL in Photoreceptor Cell Loss. Dimosthenis Mantopoulos1, G. Trichonas1, M.S. Gregory-Ksander1, D. Cestari1, B.R. Ksander1, D. Vavvas1, A. Retina, 2Neuro-ophthalmology, Institute of Ophthalmology, Massachusetts Eye & Ear Infirmary, Harvard, Boston, MA; 3Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 4Cleveland Clinic, Cleveland, OH; 5Scheepens Eye Research Institute, Harvard Medical School, Boston, MA.

1Ophthalmology, Robert Wood Johnson Univ Hosp, New Brunswick, NJ; 2Mechanical and Aerospace Engineering, Rutgers University, Piscataway, NJ. *CR
Thursday Posters

6363 – 6381 – Thursday – Posters

Clinical & Epidemiologic Research

542 Glaucoma III

Moderator: Nathan G Congdon

6363 — A1 Intracocular pressure and ocular perfusion pressure among 10-year incident glaucoma cases in the Age-Related Eye Disease Study (AREDS). Thasarat S. Vajaranant1, J.A. Hallak2,3, C.E. Joslin1,2, 3Ophthalmology and Visual Sciences, 2Epidemiology and Biostatistics, 1University of Illinois at Chicago, Chicago, IL.

6364 — A2 Evaluation of a Novel Optic Disc Grading Software for used in Population-based Studies. Yih Chung Tham1, C-L. Cheung1, T. Wong1,2, M. Baskaran1, J. Liu1, B-H. Lee1, J. Wang1, P. Mitchell1, T. Aung1, C-Y. Cheng2, J. Liu1. Singapore Eye Research Institute (SERI), Singapore National Eye Centre, Singapore, Singapore; 2Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 3Centre for Quantitative Medicine, National University of Singapore, Singapore, Singapore; 4Institute for Infocomm Research (I2R), Agency for Science, Technology and Research (A*Star), Singapore, Singapore.

6365 — A3 Evaluation of Depression in Newly Diagnosed Patients of Glaucoma Before and After Starting Ocular Hypotensive Therapy. Neelima Aron1, V. Arora1, R. Sagare1, S. Veenivas1, A. Rathi1, S. Kumar1, M. Wadhwani1, T. Dada1. Dr R P Centre for Ophthalmic Sciences, 2Department of Psychiatry, 3Department of Biostatistics, 4All India Institute of Medical Sciences, New-Delhi, India; 5Department of Ophthalmology, Government Medical College, Chandigarh, India.

6366 — A4 Metabolic Syndrome and the Risk of Developing Normal Tension Glaucoma. Mijn Kim1, J. Jeong1, W. Oh1, H. Choi1, M. Kim1, K. Park1, S. Kim1, T-W. Kim1, D. Kim1. 1Department of Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; 2Department of Ophthalmology, Seoul National University Bundang Hospital, Seongnam, Republic of Korea; 3Kong Eye Clinic, Seoul, Republic of Korea; 4Department of Ophthalmology, Healthcare System Gangnam Center, Seoul National University Hospital, Seoul, Republic of Korea; 5Department of Ophthalmology, Seoul National University Boramae Hospital, Seoul, Republic of Korea.


6368 — A6 Relationship of Structural and Functional Asymmetry to Sleep Position in Primary Open Angle Glaucoma. Eberechi Nwogu1, S. Thomas2, C. Hamill1, I. Marcus1, N.A. Loewen1. 1Ophthalmology, Ophthalmology and Visual Science, 2Ophthalmology & Visual Science, 3Yale University School of Medicine, New Haven, CT; 4Ophthalmology, Yale School of Medicine, New Haven, CT.


6371 — 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, R.S. Arcieri2, 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), Ribeirao Preto, Brazil; 3Ophthalmology, University of Campinas (UNICAMP), Campinas, Brazil.


6374 — A12 Refractive Status In Patients With Narrow Angles. Sarah M. Simpson, D.C. Warder, A. Moore, I. Irrcher, D. Jinapiyta. Department of Ophthalmology, Queen’s University, Kingston, ON, Canada.

6375 — A13 Ordinal Measurement Error Model for Assessing Agreement Among Raters for Glaucoma Progression. Yun Ling1,2, R.A. Bilionick1,2, H. Ishikawa3, G. Wollstein1, J.S. Schuman1,2. UPMC Eye Center, Eye & Ear Institute, Ophthalmology and Visual Science Research Center, Dept. Ophthalmology, U. Pittsburgh School of Medicine, Pittsburgh, PA; 3Dept. Biostatistics, U. Pittsburgh Graduate School of Public Health, Pittsburgh, PA; 4Dept. Bioengineering, Swanson School of Engineering, U. Pittsburgh, Pittsburgh, PA. *CR

6376 — A14 Intracocular Pressure and Central Corneal Thickness in a Multi-Ethnic Asian Population: The Singapore Epidemiology of Eye Disease (SEED) Study. Ching-Yu Cheng1, T. Aung2,3, Y. Zheng1, X. Li1, A.R. Anuar4, M. Chev1, B. Mani1, S-M. Saw1, T.Y. Wong1,2, 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.

6377 — 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). Tanuj Dada1, V. Arora1, S.K. Gupta2, V. Sreenivas1, V. Vathist1, T. Agarwal2, A. Panda4. 1RP Centre for Ophthalmic Sciences, 2Centre for Community Medicine, 3Department of Biostatistics, 4All India Institute of Medical Sciences, New Delhi, India.

6378 — A16 Risk Factors for Four-year Incidence of Open-angle Glaucoma: The Los Angeles Latino Eye Study. Xuejuan Jiang1, S. Wu1, M. Torres1, S.P. Azen2, B.A. Francis2, V. Chopra3, B.B. Nguyen1, R. Varma1. 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.

6379 — A17 Undiagnosed And Overdiagnosed Glaucoma In The United States. Mark W. Swanson. Optometry, Univ of Alabama at Birmingham, Birmingham, AL.

6380 — A18 Prevalence Of Glaucomatous Optic Neuropathy In A Telemedicine Population. Hana L. Takasagawa1, C. Sheppler1, C. VanAlstine1, S.K. Gardiner1, S.L. Mansberger1. 1Discoveries In Sight Laboratories, 2Devers Eye Institute, Portland, OR.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures}

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

6384 — A22  Comparison of Changes in Intraocular Pressure, Anterior Chamber Width, Lens Vault, and Iridocorneal Angle Between Frontal,san francisco, san francisco, CA.


6386 — A24  Systemic Illnesses In Glaucoma: A Possible Link Between Glaucoma And Breast Cancer? Felse May Barte1, S. Muthanae1, B. Adams-Huet1, K. Kooner1. Ophthalmology, Stanford University, Stanford, CA; Clinical Sciences, University of Texas Southwestern Medical Center, Dallas, TX.


6388 — A26  Direct Cost Of Glaucoma Treatment For Patients With Primary Angle Closure Glaucoma Over 10 Years. Kailing Wong1, H.M. Hoon1, D.T. Quek2, V.W. Wang3, E.L. Lamoureux, IP1, T. Aung6. Ophthalmology, Singapore National Eye Centre, Singapore; Institute of Health Research, Singapore, Singapore; Center for Health Services Research, Singapore Health Services, Singapore; Ophthalmology, University of Melbourne, Melbourne, Australia; Singapore Eye Research Institute, Singapore National Eye Centre, Singapore; Glaucoma, Singapore National Eye Center, Singapore, Singapore.


Hall B/C  A80-A98
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Visual Psychophysics & Physiological Optics

543 Color Vision

Moderator: Dora F Ventura

6390 — A80  Learning to Name Colors Altered by Colored Filters. Thomas Kuyk1, A. Smith1, S. Kumar2. 1TASC, Inc, Ft Sam Houston, TX; 2Air Force Research Laboratory, Ft Sam Houston, TX.


6397 — A87  Magno- And Dorsal Stream Processing Decline Slower Than Parvocellular Performance In Normal Aging. Maria F. Loureiro1, C. Mateus2, B. Oliveira3, R. Lemos3, A. Reis4, M. Castelo-Branco5. 1Visual Neuroscience, IBIL-Faculty of Medicine-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, UW Rosenberg School of Optometry, San Antonio, TX; 2Ophthalmology, USAF School Aerospace Medicine, Dayton, OH.


6400 — A90  Cone Isolating Electrophoretograms In Individuals With A Mutant Opsin Allele Associated With Cone Dystrophy. James A. Kuchenbecker1, S.H. Greenland1, J. Carroll2. 1-Ophthalmic genetics, 2Medical College of Wisconsin, Milwaukee, WI; 3Chicago Lighthouse for People Who Are Blind or Visually Impaired, Chicago, IL; 4Ophthalmology and Visual 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 Color Test. Daniela M. Bond1, M. Neitz1, J. Neitz1. Ophthalmology, University of Washington, Seattle, WA; 2Ophthalmology, The University of Chicago, Chicago, IL; 3Visual Neuroscience, Universidade Federal do Para, Belem, Brazil.


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. Tanabe1, K. Tanaka1, R. Horai2, Y. Kato1. 1Ophthalmology, Social Insurance Chukyo Hosp, Nagoya Aichi, Japan; 2Faculty of Engineering, Shinshu University, Nagano, Japan; 3Chukyo Eye Clinic, Nagoya Aichi, Japan.
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. Kazuuki Hirooka1, Y. Liu1,2, T. Fujita1, F. Shiraga1. 1Ophthalmology, Kagawa Univ Faculty of Medicine, Kita-gun, Japan; 2Ophthalmology, The Fourth Affiliated Hospital of China Medical University, Shenyang, China.


6411 — A304 Neuroprotective Effects Of Erythropoietin In Mouse Models With Retinal Degeneration. Jasmin Balmer1, M. Tschopp1, M. Menke2, M. Gassmann3, S. Wolf4, V. Enzmann1. 1Ophthalmology, University of Bern, Bern, Switzerland; 2Veterinary Physiology, University of Zurich, Zurich, Switzerland.

6412 — A305 Morphological Differences And Apoptotic Rate In An Experimental Model Of Retinal Detachment After Systemic Submission Of A Dhea-analogue. Pavolina A. Tsokai1A, I. Charalampopoulos1A, A. Gravanis1A, M.K. Tsilimbaris1A. 1Neurology & Sense Organs, 2Pharmacology, University of Crete, Heraklion, Crete, Greece; 3Ophthalmology-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 Zarnowskii1, M. Tulidowicz1A, T. Choragiewicz1A, R. Robert1A, T. Kocki1B, W. Turski1A. 1Dept of Ophthalmology, 2Dept of Pharmacology and Toxicology, Medical University Lublin, Lublin, Poland.

6414 — A307 Neuroprotective Effects Of Sirna, Targeted Caspase9, And Atecloplagogen Complex On Rat Retinal Damage Induced By Transient Ischemic Injury. Shinichiro Ishikawa1, A. Hirata1, J. Nakabayashi1, R. Ikiwar1, S. Okinami1. 1Saga Univ Faculty of Medicine, Saga, Japan; 2Saga Memorial Hospital, Saga, Japan.


6416 — A309 Neuroprotection And Neurotoxicity Of The Sustained Intracocular Delivery Of Gdnf In Retinal Degeneration. Elodie Touchard1, P. Heiduschka2, M. Berdugo1, F. Facchiano1B, G. Ripandelli4, M. Bartoli1A. 1Biocat Poitiers, 2Inserm UMR8151, Paris, France; 3Ecole Nationale Vétérinaire d’Alfort, Maisons-Alfort, France; 4CNRS UMR8151, Paris, France; 5Ecole Nationale Vétérinaire d’Alfort, Maisons-Alfort, France.

6417 — A310 Increased Susceptibility To Retinal Stress In Mice Lacking Sigma Receptor 1 (nR1). Yonju Ha1A, S. Saul1A, C. Williams1C, Raul Velez-Montoya1B, N. Mandava1, C.R. Stoldt3, J.L. Olson1. 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

6418 — A311 Arginase2 Deficiency Reduces Hypoxia-inducet Retinal Neurodegeneration through the Regulation of Polyamine Metabolism. S. P. Narayanan1, J. Sawanpradit2, Z. Xie1, T. Lenti1A, N. Putluri1, A. Seekumarn1, R.W. Calder2, R.B. Calder2,3. 1Vascular Biology Center, 2Department of Pharmacology and Toxicology, Georgia Health Sciences University, Augusta, GA; 3Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX; 4VA Medical Center, Augusta, GA. #

6419 — A312 The Protective Effects Of Bromidine For Arpe-19 And Mller Cells Exposed To Hydroquinone In Vitro. Mohamed Tarek1, C.A. Ramirez1, M. Chwa1, G. Limb1, B.D. Kuppermann1, C.M. Kenney1. 1Ophthalmology, Gavin Herbert Eye Institute, Irvine, CA; 2Ophthalmology, University of California, Irvine, Irvine, CA; 3Ocular Biology and Therapeutics, UCL Institute of Ophthalmology, London, United Kingdom; 4Gavin Herbert Eye Inst Dept Ophthal, University of California Irvine, Irvine, CA; 5Ophthalmology, Univ of California-Irvine, Irvine, CA.


6421 — A314 Recombinant Rdcvf Protein Promotes Cone Photoreceptor Survival In S334ter Rat. Yiwen Li1, L. Luo1, X. Xia1, Z. Wang1, P. Chen1, R. Wen1. Bascom Palmer Eye Institute, University of Miami, Miami, FL.

6422 — A315 Quantum Dots As Neuroprotective Factor In A Model Of Retinal Photoreceptor Degeneration. Raul Velez-Montoya1, N. Mandava1, C.R. Stoldt2, J.L. Olson1. 2Ophthalmology, University of Colorado Health and Science Center, Aurora, CO; 3Rocky Mountain Lions Eye Institute, Aurora, CO; 4Mechanical 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. Montemarri1, S. Rossi1, G. Parisist1, F. Lamoke1, G. Facchiano1, G. Ripandelli1, M. Bartoli1. 1Ophthalmology, Pharmacology and Toxicology, Georgia Health Sciences University, Augusta, GA; 2Experimental Medicine and Pathology, University of Rome La Sapienza, Rome, Italy; 3Hematology and Oncology, Istituto Superiore Di Sanita, Rome, Italy; 4Fondazione GB Bietti, Rome, Italy.


6426 — A319 DHA Restores HNE AND PEDF By Inhibiting Oxidative Damage In RPE At High Glucose Levels. Emma Arnal1, J. Johnsen-Soriano2, M. Miranda2, A. Navea1, J. Romero1,1, FOM, Valencia, Spain; 2Dpto. Ciencias Biomédicas, UCH-CEU, Moncada, Spain; Facultad de Medicina, UCV, Valencia, Spain.

6427 — A320 Transferinn 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. Behr-Cohen1. 1UMRS 872 team 17, INSERM, Paris, France; 2UMRS 872 team 17, Université Pierre et Marie Curie et Université Descartes, Paris, France; 3Ophthalmology, Hotel Dieu de Paris, Université Paris Descartes. INSERM UMR872, Paris, France.


6429 — A322 Iron Accumulation In Animal Models Of Genetic Retinal Degeneration: Human Transferrin AS A Protector For Photoreceptors. Jean-Claude P. Jeanny1, L. Jonte1, M-H. Vesvre1, C. Sergeant1, F. Guillou1, F.F. Behr-Cohen1,2, C. Yves1,2. 1UMRS 872 team17, INSERM Centre des Cordeliers, Paris, France; 2UMRS 872 team 17, Université Pierre et Marie Curie et Université Descartes, Paris, France; 3UMR 5084, Nuclear and Bio-environnemental Chemistry, CNRS, Bordeaux, France; 4UMR 5084, Physiologie de la Reproduction et des Comportements, INRA, CNRS, Université de Tours, Paris, France.

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


6432 — A325 Fixation Stability and Central Retinal Sensitivity after Intravitreal Autologous Bone-Marrow Stem Cells for Hereditary Retinal Dystrophy. Rubens C. Siqueira1, A. Messias1,4, J.C. Vol arteili2, K.V. Messias1, R.S. Arcieri1, R. Jorge1. 1Retina, 2Bone Marrow Transplantation, 3Sao Paulo University, Ribeirao Preto, Brazil. 4Retina.


6434 — A327 A Submicrowave Focal ERG Technique for Evaluating Macular Function in Stargardt/FF Dystrophy: Clinical Assessment Of Test Reliability. Benedetto Falsini1, M. Piccardi1, D. Marangoni1, A. Minnella1, M. Bertelli1, B. Fadda1. 1Ophthalmology, Catholic University, Rome, Italy; 2Ophthalmology, MAGI Laboratory for molecular genetics in rare diseases, Rovereto, Trento, Italy; 3Physiology, University of L’Aquila, L’Aquila, Italy; 4Health and Technology, Istituto Superiore di Sanita, Rome, Italy.


6436 — A329 Progressive RPE Dystrophy in Dutch Belt Rabbits. Meg Ramos1,2, I. Raymond1,3, C. Yves1,2, E. Picard1,2. 1UMRS 872 team, INSERM, Centre des Cordeliers, Paris, France; 2UMRS 872 team 17, Université Pierre et Marie Curie et Université Descartes, Paris, France; 3UMR 5084, Physiologie de la Reproduction et des Comportements, INRA, CNRS, Université de Tours, Paris, France.

6437 — A330 Retinal Degeneration and Microglial Activation in Mouse Models Of Neuronal Cerdoid Lipofuscinoses. Myriam Mirza1,2, J.C. Voltarelli1B, K.V. Messias1, S. Almodovar4,5, H.S. Keirstead6, B.A. Berkowitz6. 1Anatomy & Neurobiol/Reeve-Irvine Res Ctr, 2Biomedical Engineering, Beckman Laser Center, 3Univ of California, Irvine, Irvine, CA; 4Anatomy and Cell Biology; 5Anatomy and Cell Biology; 6Ophthalmology, 7Wayne State Univ School of Med, Detroit, MI.

6438 — A331 Modeling Photoreceptor Interactions in the Presence of Retinoids. Christoph Hoffmann1,2, T. Schwabe1, J. Drescher1,2, E. Schierle1,2, M. Linden1,2, K. Mages1,2. 1Department of Ophthalmology, University Eye Clinic Regensburg, Regensburg, Germany; 2Department of Ophthalmology, University Eye Clinic Regensburg, Regensburg, Germany.

6439 — A332 Early S Cone Loss And L/m Cone Opsin Delocalization In The Canine Model Of Rpe65 Deficiency. Daniela Klein1, A. Mendez-Madeira1, B. Lorenz1, F. Rolling2, S. Haverkamp3, K. Stergie1. 1Department of Ophthalmology, Justus Liebig University Giessen, Giessen, Germany; 2Laboratory for Gene Therapy, University of Nantes, Nantes, France; 3Neuroanatomy, Max-Planck-Institut for Brain Research, Frankfurt, Germany.

6440 — A333 Degenerative Changes At The Rod Photoreceptor Synaptic Ribon In Aging Dbaj2/j Mice. Michael Scholz1,2, M. Fuchs3, J. Atorff1, R. Enz4, J.H. Brandstatter4. 1Anatomy, 2Biology, 3Department of Biology, 4University of Erlangen-Nuremberg, Erlangen, Germany; 5Ophthalmology, University Hospital Erlangen, Erlangen, Germany.


6443 — A336 Retinal Histopathology in Eyes from a Patient with Autosomal Dominant Retinitis Pigmentosa caused by the Pro23His Rhodopsin Mutation. Mary E. Rayborn1, V.L. Bonilha1, B.A. Bell1, M.J. Marino1, G.J. Pauer1, C.D. Beight1, E.I. Traboulsi1, S.A. Hagstrom2, J.G. Hollyfield3,4. 1Ophthalmology, 2Center for Genetic Eye Diseases, 3Univ Tennesssee Health Sci Ctr, Memphis, TN; 4Human Genetics, Raboud Univ Nijmegen Med Ctr, Nijmegen, The Netherlands; 5Ophthalmology, Erasmus Medical Center, Rotterdam, The Netherlands.

6444 — A337 Retinal Histopathology from a Patient with Autosomal Recessive Retinitis Pigmentosa caused by EYS Mutations. Meghan J. Marino1, V.L. Bonilha1, M.E. Rayborn4, B.A. Bell1, G.J. Pauer1, C.D. Beight1, J. Chiang2, E.I. Traboulsi3, S.A. Hagstrom2, J.G. Hollyfield3. 1Ophthalmic Research, Cole Eye Institute, Cleveland Clinic, Cleveland, OH; 2Casey Eye Institute Molecular Diagnostics Laboratory, Oregon Health Science University, Portland, OR.
545 Retinitis Pigmentosa III

Moderator: Hendrik P Scholl


6446 — A372 Role of ER Stress-Induced Caspase8 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.

6447 — A373 Additional Neuroprotective Effects Of Prolinsulin On Vision And Retinal Structure In The Rd10 Mouse Model Of Retinitis Pigmentosa. Enrique J. de la Rosa, N. Forns, M. Marchena, A. Hernandez-Pinto, R. Steel, C. Isiegas, E. Ayuso, F. de Pablo, F. Bosch. P. de la Villa. I.Cell & Molecular Medicine, Centro de Investigaciones Biologicas, Madrid, Spain; 2Physiology, University of Alcala, Alcala de Henares, Spain; 3ProRetina Therapeutics SL, Madrid, Spain; 4CBATEG, Universitat Autonoma de Barcelona, Bellaterra, Spain.*CR

6448 — A374 Long-Term Rescue with Gene Therapy in a Mouse Model of Autosomal Dominant Retinitis Pigmentosa (ADRP). Haoyu Mao1,2, M.S. Gorbatyuk1,2, B. Rossmeister1,2, W.W. Hauswirth1,2, A.S. Levin1,2. 1Molecular Genetics & Microbiology, 2Molecular Genetics and Microbiology, University of Florida, Gainesville, FL; 3Department of Molecular Genetics and Microbiology, University of Florida, Gainesville, FL; 4Department of Molecular Genetics and Microbiology, 5Department of Molecular and Cellular Biology, The University of Florida, Gainesville, FL.*CR

6449 — A375 Mpp3 is Required for Maintenance of Adherens Junctions in the Retina during Light Exposure. Jacobus J. Dudok, A. Sanz Sanz, D. Lundvig, V. Soithilingam1, M. Garcia Garrido, N. Tanimoto, J. Klooster, J. Janitch, M. Seeliger, J. Wijnholds. 1Neuromedical Genetics, Netherlands Inst for Neurosci, Amsterdam, The Netherlands; 2Division of Ocular Degeneration, Ctr Ophthalm Inst Ophthalmic Research, Tuebingen, Germany; 3Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX.

6450 — A376 Altered Fractalkine Homeostasis In Rd10 Degenerating Mouse Retina. Marina Ziegler1, C. Schubert1, P. Uhrin8, P.K. Ahnelt1. 1Neurophysiology and Neuropharmacology, 2Vascular Biology and Thrombosis Research, 3Medical University of Vienna, Vienna, Austria.

6451 — A377 Characterization of a humanized Mouse-Model for X-linked Retinitis Pigmentosa caused by a point mutation in the Rpgcr gene. Jutta U. Schlegel1, D. Rol1, M. Bergmann2, B. Lorenzo2, K. Stieger1. 1Department of Ophthalmology, 2Department of Veterinary Anatomy, 3Justus-Liebig-University Giessen, Giessen, Germany.


6453 — A379 ER Stress is Involved in Retinal Degeneration Induced by Human T17m Mutant Rhodopsin. Mansi M. Kunte1, S. Choudhury1, V.M. Shinde1, J.F. Männik, M. Miura2, O.S. Gorbatyuk1, M.S. Gorbatyuk1. 1Cell Biology and Anatomy, UNT Health Science Center, Fort Worth, TX; 2Laboratory for Cell Recovery Mechanisms, Brain Science Institute, RIKEN, Tokyo, Japan; 3Department of Molecular Genetics and Microbiology, University of Florida, Gainesville, FL.*CR

6454 — A380 Ethanol Consumption Correlates with Retinal Degeneration and Vision Loss in the P23H Rat. Gema Esquivel1, P. Lax1, L. Fernandez-Sanchez, A. Noailler1, J. Pinilla1, N. Cuenca1. Physiology, Genetics and Microbiology, University of Alicante, Alicante, Spain; 2Ophthalmology, University Hospital Lozano Blesa, Zaragoza, Spain.


6456 — A382 Crbl1 And Crbl2 Controls Cell Division During Retina Development. Lucie P. Pellissier1, C.H. Alves1, D. Lundvig1, M. Garcia-Garrido1, V. Soithilingam1, N. Tanimoto1, J. Klooster1, J. Janitch1, M. Seeliger1, J. Wijnholds1. 1Neuromedical 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.

6457 — 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. Levin1, M.S. Gorbatyuk1. 1Cell Biology and Anatomy, University of North Texas Health Science Center, FortWorth, TX; 2Molecular Genetics & Microbio, University of Florida, Gainesville, FL.

6458 — A384 Effects of Chlorin e6 on Retinitis Pigmentosa Rhodopsin Mutants in vivo. Fernanda Balemi1,2, P.S. Akamine1, G.L.lishimoto2, B.V. Nagy1, D.F. Ventura1, J. Klein-Seetharaman1, D. Hamassaki1,2. 1Cell and Developmental Biology, 2Experimental Psychology, University of Sao Paulo, Sao Paulo, Brazil; 3Structural Biology, University of Pittsburgh, Pittsburgh, PA.

6459 — A385 siRNA preservation in rapidly progressing autosomal dominant retinitis pigmentosa. Brian P. Rossmeister1,2, H. Mao1,2, A.S. Levin1,2,3. 1Molecular Genetics & Microbiology, 2Molecular Genetics & Microbio, 3University of Florida, Gainesville, FL; 4Department of Molecular Genetics and Microbiology, 5Department of Molecular Genetics and Microbiology, The University of Florida, Gainesville, FL.


6461 — A387 Long-term Preservation Of Cone Photoreceptors By A Novel Multifunctional Drug In A Mouse Model Of Human Retinitis Pigmentosa. Bin Lin1, K. Wang1, M.B. Youdim1. 1Anatomy, Eye Institute, 2Anatomy, 3University of Hong Kong, Hong Kong; 4Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel.

6462 — A388 Analysis Of Photoreceptor Abnormality In Gucy2d E1030kk Transgenic Pigs. Corinne Kostic1, T. King1, C. Sylvia1, S. Philippe1, S. Lilliac1, C. Sarkis1, J. Mallet1, Y. Arsenjevic1, B. White1,2. 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 Vectys, Paris, France; 4Team of Biotherapy and Biotechnology, CRICM, Paris, France.*CR

Hall B/C A389-A436

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

Biochemistry & Molecular Biology

546 AMD Disease Mechanisms II

Moderator: Anneke I Den Hollander

6463 — A389 Establishing a Human AMD Interactome. Paul Wong1, D.A. Ferrington1, T.W. Olsen1. 1Ophthalmology, Emory University, Atlanta, GA; 2Ophthalmology, University of Minnesota, Minneapolis, MN.
6486 — A412 Characterisation Of The Large Macromolecular MMP Complex Of Human Bruch’s Membrane With Respect To Stability, Activation And Effects Of Ginseng Compounds. Yong Dol Shin1, J. Seok2, C. Sim3, M. Kang2, H. Shim2, Y. Lee1, A. Hussain3, 1Jeonbuk National University, Jeonju-si, Republic of Korea; 2GBioMix, Jeonju-si, Republic of Korea; 3Korean Atomic Energy Research Institute, Daejeon, Republic of Korea; 4Division of Molecular Therapy, UCL Institute of Ophthalmology, London, United Kingdom. *CR

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

6488 — A414 Translational diffusion of ranizubam and bevacizumab as measured by Fluorescence Recovery after Photobleaching (FRAP), Nishanthan Srikantha1A, K. Suhling1B, (FRAP). 1A413 *CR UCL Institute of Ophthalmology, London, United Kingdom.

6489 — A415 Identifying the Roles of Interferon-Gamma Inducible Chemokines in Progression of Age-related Macular Degeneration (AMD). Syeda F. Absar1, D. Cyr1, A.D. Proia2, M.T. Malik1, P. Bex1, K. Lashkari1, 1Schepens Eye Research Institute, Massachusetts General Hospital, Boston, MA; 2Division of Ophthalmology, University College London, London, United Kingdom.


6492 — A418 8-CPT-2-O-Me-cAMP, a Rap1 activator, suppress laser-induced CNV in Mice. Eichit Nishimura1, M. McCloskey1, Y. Jiang, G.W. Smith1, H. Wang1, E.S. Wittcher1, R. Koide2, M.E. Hartnett1, 1Ophthalmology, John A Moran Eye Ctr, Univ of Utah, Salt Lake City, UT; 2Ophthalmology, Showa University, School of Medicine, Tokyo, Japan; 3Cell and Developmental Biology, University of North Carolina, Chapel Hill, NC.

6493 — A419 Impaired Vision in the DNA Double-Strand Break Repair Poly-mutant Mouse. Noemi L. Alvarez-Lindo1, J. Baleriotio1, J.M. Sammartino1, T. Suarez1, G. Terrados2, B. Escudero1, A. Berndt1, L. Blanco1, P. de la Villa1, E. de la Rosa1, 1Cellular and molecular medicine, Centro de Investigaciones Biologicas-CSIC, Madrid, Spain; 2Centro de Biologia Molecular CSIC-UM, Madrid, Spain; 3Centro de Nacional de Investigaciones Cardiovasculares, Madrid, Spain; 4Physiology, University of Alcalá, 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. Seok1, M. Kang2, Y. Shin1, H. Shim1, Y. Lee1, A. Hussain3, 1Neuron Science Department, Korea Atomic Energy Research Institute, Daejeon, Republic of Korea; 2GBioMix, Jeonju, Republic of Korea; 3Physics, JeonBuk University, Jeonju, Republic of Korea; 4Division of Molecular Therapy, UCL Institute of Ophthalmology, London, United Kingdom. *CR

6495 — A421 The Kinetics of Retinal Gene Expression Profile of Ccl2/Cx3cr1 Double Deficient Mice on r8b Background. De Fen Shen1, Y. Wang1, K. Jin1, J. Tuo1, M. Xiang2, C-C. Chan1, 1Laboratory of Immunology, National Eye Inst/NIH, Bethesda, MD; 2Center for Advanced Biotechnology and Medicine, University of Medicine and Dentistry of New Jersey, Piscataway, NJ.


6498 — A424 Understanding The Mechanism Behind Enhancing Survival Of Photoreceptors In Culture And Regulation Of Photoreceptor Metabolism. Ken Lindsay1A, T.A. Reh2A, J.B. Hurley3A, D. Lamba1B, J. Gust1B, 1Ophthal & Visual Sci, Univ of Utah/Moran Eye Center, Salt Lake City, UT; 2Department of Pediatrics, Univ of Utah/Department of Pediatrics, Salt Lake City, UT.


6502 — A428 Diet Can Influence Human Retinal n-3/n-6 VLC-PUFA Ratios. Aihua Liu1, R. Terry2, K. Nelson2, X. Sheng3, P.S. Bernstein1, 1Ophthalm & Visual Sci, Univ of Utah/Moran Eye Center, Salt Lake City, UT; 2Department of Pediatrics, Univ of Utah/Department of Pediatrics, Salt Lake City, UT.

6503 — A429 Differential gene expression of RPE cells in C57 transgenic mice. Cynthia X. Wang, K. Zhang, B. Aredo, U. Ufret-Vincet1, Ophthalmology, UTSW Medical Center, Dallas, TX.


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. Dillon2A, E.R. Guillard2A, 1Chemistry and Biochemistry, Northern Illinois University, Sycamore, IL; 2Chemistry and Biochemistry, 1Northern Illinois University, DeKalb, IL.


6507 — A433 Arms2 In/del Polymorphism Predicts Response To Intra Vitreal Anti-vegf Therapy For Choroidal Neovascular Age-related MacularDegeneration (AMD). Alan J. Franklin1, M.F. Shuler1, S. Gupta1, J. Myers1, W.B. Lauten1, 1Retina Specialty Institute, Pensacola, FL; Retina Specialty Institute, Panama City, FL; Retina Specialty Institute, Pensacola, FL. *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 394
6508 — 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. Ferreira1, A. Saha1, E. Haque1, Y-Z. Le1, M. Webb2. 1Ophthalmology, Duke University Medical Center, Durham, NC; 2Medicine, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK.

6509 — A435 Image Registration Reveals Sites of Injury from Mitochondrial Oxidative Stress in the Retinal Pigment Epithelium. Alfred S. Lewin1, M.P. Krebs1, S. Soo1A, K. Jones1A, H. Mao1B, W.W. Hauswirth1. 1Molecular Genetics & Microbio, 2Molecular Genetics & Microbiology, 1University of Florida, Gainesville, FL; 2The Jackson Laboratory, Bar Harbor, ME; 3Dept of Ophthalmology, Univ of Florida Coll of Medicine, Gainesville, FL. *CR

6510 — A436 Genetically-related Inflammatory Priming and Failing Retinal Maintenance Predispose to Age-Related Retinal Degeneration in Mice. Debarshi Mustafi1, H. Kohno1A, K. Palczewski1, T. Maeda2B. 1Ophthalmology, 2Pharmacology, 1Case Western Reserve University, Cleveland, OH. *CR

6511 — A513 Associations Between Early Signs Of Age-related Macular Degeneration (AMD) And Risk Of AMD In The Fellow Eye In Patients With Unilateral AMD. Mariko Sasaki1, R. Kawasaki2, A. Uchida1, A. K様1, H. Mochimaru2, T. Koto1, H. Mochimaru1, D.Y. Harrison1, L. Perlee2, P. S. Bernstein1. 1Ophthalmology, 2Department of Ophthalmology, Keio University, Tokyo, Japan; 2Centre for Eye Research Australia, Royal Victorian Eye and Ear Hospital, Department of Ophthalmology, Melbourne University, Victoria, Australia; 3Singapore Eye Research Institute, Singapore, Singapore. *CR


6513 — A515 Genetics And Prevention Of Blindness: Risk Factors Associated With Age-related Macular Degeneration In A Brazilian Population. Priscila H. Rim1,2, A.P. Marques-de-Faria1, L.A. Magna1. 1Ophthalmology, 2Medical genetics, Univ Estadual de Campinas, Campinas, Brazil.

6514 — A516 Do Ultraviolet Radiations Induce Earlier Aged Ocular Pathologies Among Mountaini Dre Drs? Hassan El Chehab1, C. Dotz1, J. Bleier1, J. Herry1, J. Giraud1, F. May1, J. Rendard1. 1Department of Ophthalmology, Val de Grace Military Hospital, Paris, France; 2Desmettes Military Hospital, Lyon, France; 3Ophthalmologist, Chamonix Mont-Blanc, France; 4Ecole Nationale de Ski et d’Alpinisme, Chamonix Mont-Blanc, France.

6515 — A517 Impact Of Visceral Fat, Serum Leptin Levels And High-sensitive Crp Levels On The Pathogenesis Of Age-related Macular Degeneration. Paulina Haus1, 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. *CR

6516 — A518 Correlation Of Osteoporosis And Incidence Of Skin Cancers And AMD grade in the Irish Nun Eye Study Population. Evelyn Moore1, V. Silvestri1, M. Stevenson1, G. Silvestri1, W.W. Hauswirth2. 1Ophthalmology, 2Royal Group Hospital, Belfast, Northern Ireland; 3Ophthalmology, Royal Hospital Trust, Belfast, Northern Ireland; 4Centre for Public Health, 5Centre for Vision and Vascular Science, Queen’s University, Belfast, Northern Ireland.

6517 — A519 Plasma Homocysteine And Extracellular Soluble Receptor For Advanced Glycation End Products (esRage) In Aqueous Humor Of Patients With Age-related Macular Degeneration. Pinio Matoula1, K. Ninios1, N. Szentmary1, R. Obeid1A, B. Seitz1A. 1Department of Ophthalmology, 2Department of Clinical Chemistry and Laboratory Medicine, 1University of Saarland, Homburg, Germany.

6518 — A520 Visual Impairments In Age-related Macular Degeneration To Process Spatial Frequencies During Natural Scene Categorization. Bixandra Hora1, B. Mase1, S. Chokron2, C. Chiquet2, J. Roman6, J. Le Bas4, P. Carole2. 1Ophthalmology, Hospital Albert Mountaineer Guides, Chamonix, France; 2Institut des Neurosciences, INSERM U836, Grenoble, France; 3Fondation Ophtalmologique Rothschild, Unité Fonctionnelle Vision et Cognition, Paris, France; 4Université Joseph Fourier Grenoble, France; 5Gynecology, Medical University of Vienna, Vienna, Austria; 6Clinical Trials.

6519 — A521 Contrast Sensitivity As A Predictor Of Central Field Loss. Jennifer Wallis1, R. Li7. 1Ophthalmology, 2Department of Ophthalmology, 3Genetic & Molecular Genetics & Microbio, 4Ophthalmology, 5Medical Genetics, 6Univ Estadual de Campinas, Campinas, Brazil.

6520 — A522 A Canadian Registry Of Lucentis Treatment To Collect Effectiveness And Safety Data In Patients With Neovascular Age-related Macular Degeneration Over 36 Months (LENS): Findings From An 12-month Interim Analysis. Sebastien Olivier1, A. Charbonneau1, M. Giunta1, P. Saurel1, M. Bense1, B. Rebel1, F. De Takacsy1, R. Li1. 1Ophthalmology, Hospital Maisononneuve-Rosemont, Montreal, QC, Canada; 2Polyclinique de Trois-Rivières, Trois-Rivières, QC, Canada; 3Université de Sherbrooke, Sherbrooke, QC, Canada; 4Clinique Chirurgi/Vision, Drummondville, QC, Canada; 5Health Sciences Centre-Eye Clinic St-John’s, St-John’s, NL, Canada; 6Everest Clinical Research Services, Inc., Markham, ON, Canada; 7Novartis Pharmaceuticals Canada Inc., Dorval, QC, Canada. *CR

6521 — A523 The Impact Of Anti-vegf Treatment On Vision-related Quality Of Life In Age-related Macular Degeneration Outside Clinical Trials. Robert P. Finger1, J.B. Hassell2, F. Abeid3, M.C. Gillies2, J.E. Keeffe3, R.H. Guymer1. 1Centre for Eye Research Australia, Melbourne, Australia; 2Save Sight Institute, Sydney, Australia. *CR


6523 — A525 Spectral Domain Optical Coherence Tomography Treatment Guidance Of Monthly Follow-up Of Patients With Exudative Age-Related Macular Degeneration. Roberto Gallego-Pinazo1, E. Sanz-Marco1, S. Martinez-Castillo1, R. Dolz-Marco1, J. Arévalo1, M. Diaz-Llopis1. 1Ophthalmology, University and Polytechnic Hospital La Fe, Valencia, Spain; 2Retina, Wilmer Eye Institute, Johns Hopkins University School of Medicine, Baltimore, MD; 3King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia; 4Faculty of Medicine, University of Valencia, Valencia, Spain. *CR

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

6525 — A527 One year’s treatment with intravitreal Ranibizumab (lucentis®) and Verteporfin PDTc, Combination Therapy at Month 2 for Neovascular Age-related Macular Degeneration (AMD). Eric Fournoux, M. Dominguez, L. Rosier, L. Velasque. Retine Tourmy, Bordeaux, France.

*CR Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – *CR Refer to Program Number in the Clinical Trial (CT) Registration Index – Travel Grant Awardee
6526 — A528 Clinical Features Of Self-resolving Sub-foveal Choroidal Neovascularisation in ‘Wet’ Age-Related Macular Degeneration. Sharmin Badiel1, N. Pate2, S. Walker2. *ophthalmology, William Harvey Hospital NHS trust, Ashford, United Kingdom; 3Medical 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. Prendergast, W. Feuer1. *ophthalmology, Robert Wood Johnson Medical School, New Brunswick, NJ; 2Bascom Palmer Eye Institute of the University of Miami School of Medicine, Miami, FL.

6528 — A530 A French Version Of Skread To Identify Reading Difficulties Related To Central Scotoma. Anne Catherine Scherlen1, G. Faure1, M. Goldschmidt1, D. Raffort1, F. Vital-Durand1, C. Miege1. *R&D Optics Low Vision, Essilor International, Paris, France; 2Hospital La Timone, Low Vision Clinic, Marseille, France; 3Low Vision Rehabilitation, Pully, Switzerland; 4Service d Ophtalmologie, CHU-Bordeaux Unives de Bordeaux, Bordeaux, France; 5Vitreoretinal Unit, Manchester Royal Eye Hospital, Manchester, United Kingdom; 6Ophthalmology, University of Bonn, Bonn, Germany; 7Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany.

6529 — A531 Optical Coherence Tomography Hyperreflective Foci Increase in Quantity and Central Foveal Density in Intermediate Age-related Macular Degeneration. Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1, Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1, Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1, Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1, Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1, Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1, Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1, Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1, Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1, Rachelle O’Connell1, F.A. Folgar1, J.G. Christenbury1.


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


6534 — A536 Evaluation of Peripheral Fundusautofluorescence Changes in Patients with Wet ARMD: The OTELLO Study. Anita Zenger1, M.B. Rougier, H.F. P.E. Stanga1, S. Schmitz-Valckenberg1, L. Reznicek1, U.E. Wolf-Schnurrbusch1,2,3. 1Bern Photographic Reading Centre, 2Ophthalmology, ‘University Bern, Bern, Switzerland; 3Service d Ophtalmologie, CHU-Bordeaux Unives 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.

6535 — A537 Significance of Small Dense Particles During Treatment of Exudative Age-related Macular Degeneration. Randhir Chavan, S. Panneerselvam, N. Narendran, J.G. Ances, 1Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; 2Department of Ophthalmology, University of Bonn, Bonn, Germany; 3Department of Ophthalmology, University of Bonn, Bonn, Germany.

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

6537 — A539 Within-visit And Between-visit Repeatability Of The Diagnosys Full-field Stimulus Threshold (D-FST) When Measuring Rod Sensitivity In Patients With Atrophic Age-related Macular Degeneration (ARMD). Martin Klein1, D.G. Birch2, J. Chandler1, J. Koester1, H. Hughes1, A. Reaves1, R. Kubota1. 1Rose Silverthorne Ret. Degen. Lab, Retina Foundation of the Southwestern United States, Dallas, TX; 2Ophthalmology, UT Southwestern Medical Center, Dallas, TX; 3Acuella, Inc., Seattle, WA.

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

6538 — A540 Neuropeptide Y Protects Retinal Neural Cells From Glutamate-induced Toxicity Through The Activation Of NPY Y2 Receptor. Ana Santos-Carvalho1,2, A.F. Ambrósio1, C. Cavadas1,2. 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.

6539 — A541 NMMA-induced Calcium Dynamics Are Altered In Retinas Of Adult Mice Deficient In The Neural Cell Adhesion Molecule (NCAM). Jeremy A. Murphy1,2, B.A. Daniels1, B.C. Chauhan2, W.H. Baldridge3,4. 1Retina and Optic Nerve Research Laboratory, Ophthalmology & Visual Sciences, 2Retina and Optic Nerve Research Laboratory, Ophthalmology & Visual Sciences, 3Anatomy & Neurobiology, 4Retina and Optic Nerve Research Lab, Ophthalmology & Visual Sciences, Physiology & Biophysics, Dalhousie University, Halifax, NS, Canada.

6540 — A542 Involvement of P2X7 receptor and therapeutic efficacy of Brilliant Blue G in a mouse model of subretinal hemorrhage. Shoji Notomi1, T. Hisatomi1, A. Takeda1, Y. Ikeda1, H. Enaida1, T. Ishibashi, Sr. 1Ophthalmology, Dept of Ophthalmology, Kyushu University, Fukuoka, Japan; 2Department of Ophthalmology, Kyushu University, Hirokishi, Japan.

6541 — A543 Changes In P2X Receptor Activity During Retinal Degeneration. Aleksandra Poloushukina, A. Nohlet, I. Chotksy, R.H. Kramer. UC Berkeley, Berkeley, CA.

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

6543 — A545 Intercellular Ca2+ Wave Propagation in Human Retinal Pigment Epithelium Cells Induced By Mechanical Stimulation. Anma E. Abu Khaidah2, K. Juati-Ustadia3, K. Larsson3, H. Skottman3, J. Hyytinnen4. 1Department of Biomedical Engineering, Tampere University of Technology, Tampere, Finland; 2BioMediTech, Tampere, Finland; 3Institute of Biomedical Technology, University of Tampere, Tampere, Finland.

6545 — A547 Alpha 2 adrenergic agonist receptor in chick retina. Gabriella V. Costa1, M.K. Shigetomi1, R. Fleming1, W.V. Olivera1, A.A. Costa2, P. Gardino1, A.M. Dantas3,4. 1Institute of Biophysics Carlos Chagas Filho, 2Department of Ophthalmology, 3Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.

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


6548 — A550 Loss of Ife Leads to Progression of Tumor Phenotype in Primary Retinal Pigment Epithelial Cells. Jaya Pranava Gnana Prakashani, R. Veeraranjan-Karmegam, V. Coothankandavaswamy, S.K. Reddy, P.M. Martin, M. Thangarajji, S.B. Smith, V. Ganapathy. *Biochemistry and Molecular Biology, 2Cellular Biology and Anatomy, 3Georgia Health Sciences University, Augusta, GA.

*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
6549 — A551 Therapeutic Inhibition Of Retinoblastoma By Nanoceria. Kathryn E. Klump1A, S.V. Kioseva1A, S. Seal1, M.A. Dyer1A, J.F. McGinniss1A,2A. "Oklahoma Center for Neuroscience, 1Department of Ophthalmology, 2University of Oklahoma Health Sciences Center, Oklahoma City, OK. 3Mechanical Materials Aerospace Engineering, Nanoscience, and Technology Center, University of Central Florida, Orlando, FL. 4Department of Developmental Neurobiology, St. Jude's Childrens Research Hospital, Memphis, TN. "Howard Hughes Medical Institute, Chevy Chase, MD. @ CR.

6550 — A552 Inhibition of Protein Glycosylation by Tunicamycin Induces Shortening and Disorganization of Rod Outer Segments and Photo receptor 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. Couvre1A, L. Gamarra2, P. Cristovam1, J.P. Gomes1A. 1Ophthalmology, UNIFESP/Santa Casa de Santos, Santos, Brazil; 2Ophthalmology, UNIFESP, Santos, Brazil. "Oncology, Instituto Israelita de Pesquisas Albert Einstein, Sao Paulo, Brazil.

6552 — A554 Secretion Of VEGF From Polarized RPE By Tnf-a Or Thrombin. Hiroto Terasaki1A, M. Shirasawa1A, N. Arimura1A, S. Sonoda1A. 1Ophthalmology, 2Department of Ophthalmology, Kagoshima University, Kagoshima, Japan.

6553 — A555 CEP290 is Required for Photoreceptor Ciliogenesis and Ventricular Epithelial Cilia Function. Erin Yanamoto1A, R. Rachel1, M. Dewanjee1, J. Munasinghe1A, T. Li1, L. Dong1, A. Swaroop1. "Neurobiol-Neurogenetrn & Repair, NEI, Bethesda, MD; 2NINDS, Bethesda, MD.

6554 — A556 Rapid Photoreceptor Degeneration Occurs In Zebrafish asl2b Mutants Following Suppression Of Pep Signaling. Brian 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 Pasovic1A,2A, J.R. Eider1, P. Aasle1, T. Lybek2, X. Chen1, T.P. Utheim1A. "Center for Clinical Research, 1Department of Ophthalmology, 2Oslo University Hospital, Oslo, Norway; 3SynsLaser Kirurgi Oslo/Tromso, Oslo, Norway. @ CR.


6559 — A561 Changes In The Expression Of Genes Related To Oxidative Stress In Rd1 Mice. Violeta Sanchez-vallejo1A, M. Flores-Bellver1, R. Alvarez-Nolding1, S. Johnsen-Soriano1, M. Miranda1, F. Romero Gomez1A, 1Pharmacology, Univ CEU Cardenal Herrera, Valencia, Spain; 2Fundación Oftalmológica del Mediterraneo, Valencia, Spain; 3Universidad Catolica ‘San Vicente Mártir’, Valencia, Spain.

6560 — A562 The Cysteine Prodrug L-2-Oxothiazolidine-4-Carboxylic Acid (OTC) Elicits Potent Antioxidant and Anti-inflammatory Effects in RPE: Relevance to Treatment of Age-Related Macular Degeneration. Wanvisa Promsote1A, S. Ananth1A, R. Veeranan-Karmegam1A, N. Lamberti1A, C-C. Chau1, V. Ganapathy1, P.M. Martin1A. 1Biochemistry and Molecular Biology, 2Pharmacology and Toxicology, Georgia Health Sciences University, Augusta, GA; 3Immunopathology Section, National Eye Institute, Bethesda, MD.


6562 — A564 Whole Number And Spatial Distribution Of The POU4f Family Of Transcription Factors In The Adult Rat Retina. Francisco M. Nadal-Nicolás1A, M. Jimenez-Lopez1A, M. Salinas-Navarro1A, L. Nieto-Lopez1A, A. Ortin-Martines1A, C. Galindo-Romero1A, M. Sanchez-Migallon1A, P. Sobrado-Calvo1, M. Vidal-Sanz1, M. Aguado-Barruso1. 1Unidad de Investigación, Hospital Universitario Virgen de la Arrixaca, Murcia, Spain; 2Opto Oftalmologia, 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. Shubin Xu, S. Lumayag, C. Haldin, C. Covan, B. Kovacs. Ophthalmology, Rush University Medical Center, Chicago, IL.


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

6567 — A569 The Influence of Substrate Elastic Modulus on Retinal Pigment Epithelial Cell Phagocytosis. Kiernan S. Bhoochoor1A, J.T. Davis1A, J.C. Manaranca1A, A.M. McDermott1A, W.J. Foster2A. 1Biology & Biochemistry, 2Physics, 3Optometry & Vision Science, University of Houston, Houston, TX; 4Ophthalmology, Weill-Cornell Medical College, Houston, TX.

6568 — A570 Synergistic interaction of Tubby and Tubby-like Protein 1 (Tulp1). Gabriela S. Alvarado, N.B. Cabrero, 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

Glucoma / Anatomy & Pathology / Retina / Retinal Cell Biology / Multidisciplinary Ophthalmic Imaging

549 Ganglion Cell Function, Injury, Protection and Imaging

Moderators: James E Morgan and Jonathan G Crowston

6570 — A208 Exogenous PACAP Acts as a Retinoprotective Agent and a Modulator on Microglia/Macrophages Status in Mice NMDA-induced Retinal Injury Model. Yoshihiro Wada1A,2A, T. Nakamachi1A,2A, K. Endo1A,2A, S. Shioda1B, R. Álvarez-Nölting1A, S. Johnsen-Soriano2, M. Salinas-Navarro2, M. Sanchez-Migallon2, P. Sobrado-Calvo2, M. Vidal-Sanz2, M. Aguado-Barruso2. 1Unidad de Investigación, Hospital Universitario Virgen de la Arrixaca, Murcia, Spain; 2Opto Oftalmologia, Universidad de Murcia, Murcia, Spain.

6571 — A209 Increased Neuro-retinal Injury After Intracocular Pressure Elevation In Xenotransplantochdrial 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.


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. Aahid M. Siddiqui, T.F. Sablijie, A.K. Ball. Pathology and Molecular Medicine, McMaster University, Hamilton, ON, Canada.


6579 — A217 Neuroprotective Effect Of Resveratrol after Optic Nerve Transection. SeokHwan Kim, J. Park, M. Kim, M. Kimi. D. Kimi, J. Jeong, T-W. Kim, K. Park. ‘Ophthalmology, Boramae Medical Center, Seoul, Republic of Korea; Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; Ophthalmology, Seoul National University Bundang Hospital, Kyunggi, Republic of Korea; Ophthalmology, Seoul National University Bundang Hospital, Seongnam, Republic of Korea.


6581 — A219 Royal jelly Peptide Promotes Retinal Ganglion Cell Survival in Experimental Model of Glaucoma Through Up-regulating BDNF 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 Phosphomyelinase Plays a Role in IR-induced Retinal Degeneration. Jie Fan1, B.X. Wei1, Y.A. Hamman2, C.E. Crosson2. o’Ophthalmology-Storm Eye Inst, 1Biochemistry and Molecular Biology, 2Ophthalmology, Medical Univ of South Carolina, Charleston, SC.

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

6586 — A224 Etafercept, A Widely Used Inhibitor Of Tumor Necrosis Factor-α (tnf-α), Prevents Retinal Ganglion Cell In Loss In A Rat Model Of Glaucoma. Min Ro1, Y. Zhang1, Y. Marukami1, A. Tanoue1, D.G. Vavvas1, L. Benowitz2, J.W. Miller1. 1Ophthalmology, MEIEI, Angiogenesis & Retinal Neurodegradation Res Grp, UCL Institute of Ophthalmology, London, United Kingdom; 2Neuroscience, Laboratories for Vision Sciences, IBILL, Faculty of Medicine, University of Coimbra, Portugal; 3Glucoma & Retinal Neurodegenrnt Res Grp, UCL Inst Ophthal & Western Eye Hsp London, London, United Kingdom. *CR


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. Sidorova, D.J. Calkins. Ophthal & Vis Sciences, Vanderbilt Eye Institute, Nashville, TN.


6598 — A236 Differential Expression of CCL5 Receptors in Acute and Chronic Murine Models of Glaucoma. Amanda C. Rehorn1A, D.S. Duncan1A, M. Stanford1, G. Davis2B, R.M. Sappington3. 4Vanderbilt Eye Institute, 5Interdisciplinary Graduate Program, 6Vanderbilt University Medical Center, Nashville, TN.

6599 — A237 Alpha-1 Adrenergic Receptor Stimulation Induces Ocular Disease via TGF-Beta-Mediated Mechanisms. Jose L. Vega4, I. Agoulnik5, S. Masl6, F. Mir7, D. Chen8, W. Bowden9, Y. Qiang10, E. Suarez11, P. Durand12-14. 1Department of Neurology, 2Department of Cell Biology and Pharmacology, 3Herbert Wertheim College of Medicine, Miami, FL; 4Ophthalmology, Schepens Eye Research Institute, Boston, MA; 5Department of Biology, Florida International University, Miami, FL. *CR


6601 — A239 Slt2 Delays The Death Of Retinal Ganglion Cells After Optic Nerve Crush Injury. Thomas F. Sablich, A. Ball. Pathology & Molecular Medicine, McMaster University, Hamilton, ON, Canada.

6602 — A240 Subtype- and Location-Dependent Degeneration of Retinal Ganglion Cells in a Mouse Model of Ocular Hypertension. Liang Feng, Y. Zhao1, M. Yoshida1, S. Lindstrom1, T.S. Kim1, J. Cang1, J.B. Troy1-2, X. Liu1. 1Ophthalmology, Northwestern University, Chicago, IL; 2Biomedical Engineering, 3Neurobiology, 4Northwestern University, Evanston, IL.

6603 — A241 Mechanosensitive Channels In Isolated Rat Retina Ganglion Cells: Response To Strain From Within Neurons. Jingsheng Xia1A, D.J. Calkins1A, C.H. Mitchell1A,2. 1Ophthalmology and Visual Sciences, Univ of California, San Diego, CA; 2National Center for Microscopy and Imaging Research and Department of Neuroscience, University of California, San Diego School of Medicine, La Jolla, CA.

6604 — A242 Retinal ganglion cell morphology is not affected by chronic experimental glaucoma in mice selectively expressing Yellow Fluorescent Protein. Giedrius Kalesnykas1, E. Oglesby2, F. Nielsen3, J. U. Prasse4, S. Hanemann2, S. Heegaard4. 1Dept. of Neuroscience & Pharmacology, University of Copenhagen, Copenhagen, Denmark; 2Dept of Ophthalmology, Aarhus University Hospital, Aarhus C, Denmark; 3Dept. of Ophthalmology, Glostrup University Hospital, Copenhagen, Denmark; 4Dept. of Biomedicin, University of Aarhus, Aarhus, Denmark.


6606 — A244 Alteration Of Lymphocyte Levels In An Autoimmune Model Of Retinal Ganglion Cell Loss. Sandra Kuehrl1, R. Norstami2, M. Kuehrl1, J. Schiwak1, F. Gros3, B. Dick1, S. Joachimi1. 1Experimental Eye Research Institute, Ruhr University, Bochum, Germany; 2Experimental Ophthalmology, University Medical Center, Mainz, Germany.


6608 — A246 Axonal Subtypes in Normal and Glaucomatous Retinas. Ye Zhou1, X. Zhao1, S. Williams1, W. Kong1, X. Huang1. 1Department of Biomedical Engineering, College of Engineering, University of Miami, Miami, FL; 2Bascom Palmer Eye Institute, Miller School of Medicine, University of Miami, Miami, FL; 3ShenYang No.4 Hospital, ShengYang, China.

6609 — A247 Aquaporins in glaucoma eyes. Thuy Linh Tran1, T. Bok1, M.D. de La Cour2, S. Nielsen1, J.U. Prasse3, S. Hanemann4, S. Heegaard4. 1Dept. of Neuroscience & Pharmacology, University of Copenhagen, Copenhagen, Denmark; 2Dept of Ophthalmology, Aarhus University Hospital, Aarhus C, Denmark; 3Dept. of Ophthalmology, Glostrup University Hospital, Copenhagen, Denmark; 4Dept. of Biomedicin, University of Aarhus, Aarhus, Denmark.

6610 — A248 Pre-degenerative Astrocyte Modifications in the Optic Projection of Glaucomatous Mice. Caroline C. Benoist1, J.D. Dapper1, S.D. Crish2, D.J. Calkins1. 1Ophthalmology, Vanderbilt Univ Medical Center, Nashville, TN; 2Pharmaceutical Sciences, Northeastern Ohio Univ College of Med, Rootstown, OH.

6611 — A249 Stress-Induced Upregulation and Translocation of TRPV1 in Retinal Astrocytes. Karen W. Ho, D.J. Calkins. Ophthalmology, Vanderbilt University, Nashville, TN.

6612 — A250 Enhancement Of Stem Cell Integration Into The Retina By Modulating Gliial Reactivation In An In-vitro Stem Cell Transplantation Model. Alessia Tassoni1, N.D. Bull1, K.R. Martin1-2. 1Clinical Neurosciences, Centre for Brain Repair, University of Cambridge, Cambridge, United Kingdom; 2Department of Ophthalmology, University of Cambridge, United Kingdom. *CR

6613 — A251 Brinzolamide Has Positive Effect on Retinal Function and Structure in Normotensive Glaucomatous Canine Eyes. Sinisa D. Grozdanic1, E. Hernandez-Merino1,2, H. Kecova1, R.H. Kardon1,2. 1Center for Prevention and Treatment of Vision Loss, Dept of Veterans Affairs - Iowa City, Iowa City, IA; 2Department of Ophthalmology and Visual Sciences, University of Iowa, Iowa City, IA.

6614 — A252 Is Transforming Growth Factor Beta 2 (TGF-B2) An Inducer Of Cross-Linked Actin Networks (CLANs) In Cultured Optic Nerve Head Cells (ONH)? Laura M. Carrie1, N. Pollock1, L. Paaroun2, A.F. Clark2, I. Grierson3. 1Eye and Vision Science, University of Liverpool, Liverpool, United Kingdom; 2Cell Biology & Anatomy, University of North Texas HSC, Fort Worth, TX. *CR

6615 — A253 TLR4 Innate Immune Differential Response To Three Dietary Fatty Acids Challenged With Low Molecular Weight Hyaluronic Acid, a TLR4 Ligand. Algis Grybauskas1, E. Wagner2, R. Burdi2, L. Walker2, P.A. Nepper2. 1Ophthalmology and Visual Sciences, University of Illinois at Chicago, Chicago, IL; 2Ophthalmology, Northwestern University Medical School, Chicago, IL.


6617 — A255 Effect Of Coenzyme Q10 On Mitochondrial Fission And Cellular ATP Reduction In Purified Rat Optic Nerve Head Astrocytes Exposed To Hydrogen Peroxide. You Huan No1, K-Y. Kim1, R.N. Weirenb, W-K. Ju1. 1Hamilton Glaucoma Center and Department of Ophthalmology, University of California, San Diego, La Jolla, CA; 2National Center for Microscopy and Imaging Research and Department of Neuroscience, University of California, San Diego School of Medicine, La Jolla, CA.

Thursday – Posters – 6598 – 6618

Hall B/C A607-A640

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

550 Cataract Surgery I

Moderator: Steven Bassnett

6618 — A607 In Vivo and In Vitro MRI of the Uvea in Pseudophakic Human Eyes, Susan A. Streaker1, B.S. Tjand1, L. Werner2, N. Manalis3, L.M. Streaker1, K.L. Lu1. 1MRI Research, Inc, Middleburg Heights, OH; 2Psychology, University of Southern California, Los Angeles, CA; 3Ophthalmology, University of Utah/Moran Eye Center, Salt Lake City, UT; 4MRI Research Inc, Middleburg Heights, OH; 5Ophthalmology, University of Southern California/Doheny Eye Institute, Los Angeles, CA. *CR
Thursday – Posters

6619 – A608 Aravind Pseudoexfoliation Study (APEX) I: Intraoperative Results. Alan L. Robin1,2, R. Venkataperumal1, A. Haripriya1, C. Shivakumar1, V Prabhul1, M. Sekhar1, B. Talwar1, P. Sathyam1, 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 Cornea 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 Schneider1A, H. Uy2, T. Cribbens1, V. Trimble1, S. Botting1. 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, B. Gray2, M. Brownell2, J. Martiz, MD1, A. Gwon, MD1, J. Hill1. 1Gavin Herbert Dept of Ophthalm, Univ of California, Irvine CA, San Diego, CA; 2Biological Sciences, R & D; 3Abbott Medical Optics, Santa Ana, CA; 4 Cornea, International Refractive Consultants, Spring, TX; 5University of California Irvine, Newport Beach, CA; 6Abbott Medical Optics Inc., Santa Ana, CA. *CR.

6623 – A612 Posterior Capsule Opacification of a 1-piece and a 3-piece Microincision Intracapsular Lens – 1 year Comparison. Ana Prinz1, B. Weingessel1, O. Findl1, P.V. Vecsei-Sebestyén1, T. Ergas1, J. Amtage2, C. Schneider3. 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, E. Agard1, A. Malcles1, N. Chave2, 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. Guerrero, Sr., B. Medina1, C. Palacio, C. Mendoza, L. Arroyo. 1Anterior Segment, Hospital Foundation;, Mexico, Mexico.

6627 – A616 Major Breed Distribution and Common Histopathologic Findings in Canine Globes Enucleated as a Result of Glaucoma Following Cataract Surgery. Erin M. Scott1, D.W. Esson1, K.J. Fritz1, R.R. Dubielzig1. 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. Chomsky2. 1Vanderbilt University School of Medicine, Nashville, TN; 2VA Tennessee Valley Healthcare System, Nashville, TN.

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

6630 – A619 Objective Discrimination Between Operable And Non-operable Cataracts. Clemente Paz Filgueira1, R.F. Sanchez1, L.A. Issolino1, M. Vilaseca1, J. Pujol1, E.M. Colombo1. 1Departamento de Luminotecnia, ILAV, CONICET – UNT, San Miguel de Tucuman, Argentina; 2CD6-optica y Optometria, Universitat Politecnica Catalunya, Terrassa, Spain. *CR.

6631 – A620 Subjective Outcomes Evaluation of Aspheric Diffractive and Apodized 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. *CR.


6633 – A622 Postoperative Refractive Error After Simultaneous Vitrectomy and Phacoemulsification with Sulcus Fixation of Intracapsular Lens. eok soo suh1, S. LEE, J. Chun2. 1Department of Ophthalmology, Dongsung University Gyeyongju Hospital, Gyeyongju, Republic of Korea.

6634 – A623 Evaluation Of Subjective Outcomes With Two Presbyopia-correcting IOLs Following Phacoemulsification. Larry Katzen1. 1Katzen 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. Christian, L. Harris1. 1Assil Eye Institute, Beverly Hills, CA. *CR.

6636 – A625 Continuous Intraocular Pressure Measurements During Small Incision Phacoemulsification Surgery In Porcine Eyes. Seung Yoon Jeu1, M. Son2, T. Baek1, J. Lee2. 1Ophthalmology, GM St Mary’ eye center, Busan, Republic of Korea; 2Ophthalmology, Haeundae Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea.


6639 – A628 Corneal Astigmatism And Its Correction With The Toric Intraocular Lens And Peripheral Corneal Relaxing Incisions. Li Wang, D.D. Koch1, M.P. Weikert1, R. Jenkins1. Cullen Eye Institute, Dept Ophthalmology, Baylor College of Medicine, Houston, TX.

6640 – A629 Viscoat Versus Visthusia During Phacoemulsification Cataract Surgery: Corneal And Foveal Changes. Marilitta M. Moschis1, E.P. Chatzivalli1, T.N. Sergentanis1, I. Ladas1. 1Department of Ophthalmology, 2Department of Epidemiology and Biostatistics, 3University of Athens, Athens, Greece.


6642 – A631 A Comparative Study of Phacoemulsification With the Ozil Intelligent Phaco(IP) handpiece and Ozil handpiece:retrospective clinical study. Yoshinao Setoguchi1, H. Ito1, H. Nakashiki1, K. Kuroda1, K. Anemiya1, M. Taniguchi1, Y. Okamoto1, A. Ootani1, Y. Tanaka1. 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, I.J. van der Meulen2. 1Ophthalmic Research, Netherlands Inst for Neurosci, Royal Acad, Amsterdam, The Netherlands; 2Ophthalmology, Academic Medical Center, Amsterdam, The Netherlands.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – CR, Travel Grant Awardee

400

Thursday Posters
11:15 am – 1:00 pm
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, University of Sao Paulo, Sao Paulo, SP, Brazil.

Columbia University, New York, NY; 5Bascom Palmer Eye Institute, Miami, FL; 6Ophthalmology, Ouzounian Eye Institute, Mount Sinai Medical Center, Miami Beach, FL.

Ophthalmology, University of South Carolina, Columbia, SC; 3Ophthalmology, Dorn Veterans Hospital, Columbia, SC.

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

1Laboratorio de Optica, Universidad de Murcia, Murcia, Spain; 2Ophthalmology, Hospital Virgen de la Arrixaca, Murcia, Spain. *CR

General,Contact Lenses, Ocular Disease, Cape Coral Eye Center, Cape Coral, FL.*CR

1College of Human Medicine, Michigan State University, Grand Rapids, MI; 2Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL; 3Ophthalmology, Miami Veterans Affairs Medical Center, Miami, FL; 4Columbia University, New York, NY; 5Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Plantation, FL.

8Biological Sciences R&D, 8R&D Equipment, 8R&D, 8Abbott Medical Optics, Santa Ana, CA; 8University of California Irvine, Irvine, CA.*CR

Ophthalmology, Walter Reed National Military Medical Center, Bethesda, MD.

1Ophthalmology, 2College of Medicine, 3University of Florida, Gainesville, FL.

Ophthalmology, Hopital Universitaire de Biitre, AP-HP, Paris, France.

1Ophthalmology, University Hospital of Besancon, Besancon, France; 2Ophthalmology, Hopital Civil de Strasbourg, Strasbourg, France; 3Ophthalmology, University Hospital of Strasbourg, Strasbourg, France; 4Ophthalmology, Centre Hospitalier Universitaire, Besancon, France; 5Ophthalmology, Univ Hosp, Besancon, France.

1Ophthalmology, Nagasaki Univ School of Medicine, Nagasaki, Japan.

6658 — A647 Change In Central Corneal Volume After Cataract Surgery. Melissa M. Wong1, A. Shukla2, W.M. Morin3.
1Ophthalmology, Boston Univ School of Med, Boston, MA; 2Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA.

6659 — A648 Visco-free Phacoemulsification.
Balamurali K. Ambati1, B.C. Stagg2.
1Ophthalmology, 2Virginia Commonwealth University, Richmond, VA.

1Tri Med Laser Eye Center, Barrie, ON, Canada; 2Abbott Medical Optics, Santa Ana, CA.*CR

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.

1Anterior Segment, Inst de Oftalmologia CONVAI, Mexico City, Mexico; 2Cornea and refractive Surgery, Instituto de Oftalmologia Conde de Valenciana, Mexico City, Mexico.

Ophthalmology, University of Western Ontario, London, ON, Canada.

1Ophthalmic Biophysics Center, Dept. of Ophthalmology, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL; 2Biomedical Optics and Laser Laboratory, Dept. of Biomedical Engineering, University of Miami College of Engineering, Coral Gables, FL.*CR

6665 — A654 Refractive Results After Cataract Surgery In Patients With Previous Corneal Refractive Surgery. Astrid Queant, A. Saad, D. Gatine1.
A1Foundation A. de Rothschild, Paris, France.

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

1Department of Ophthalmology, Univ of Texas Health Sci Center, San Antonio, TX; Retina Associates of South Texas, San Antonio, TX.

1University of Chicago, Chicago, IL; 2NorthShore Univ Health System, Glenview, IL; 3Ophthalmology, NorthShore Univ Hlth System, Glenview, IL.

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


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

6672 — A661 Evaluation Of PhotoRefractive Keratorefractive Enhancement For Optimizing Refractive Error In Patients With An Implanted Alcon AcrySof Toric Iol. Eric Liss1, G. Perez2, G. Lacayo1, R.B. Simon1, J.A. Khell1, W. Trattler1, C. Buznego1, B. Mendelsohn1, T. Khoury. Herbert Wertheim College of Medicine, Sarasota, FL; Ctr for Excellence in Eye Care, Miami, FL; ‡Cornell, ‡Center For Excellence in Eye Care, Miami, FL; ‡Ophthalmology/Cornella, Center for Excellence in Eyecare, Miami, FL.


6674 — A663 The Effect of Acute Heat Stress on Lens Epithelial Cells: A Novel Therapeutic Strategy for Posterior Capsule Opacification. Matthew Balazsi1, B.F. Fernandes2, S. Di Cesare3, S.C. Maloney2, T.J. Granner2, M.N. Burnier, Jr.2. 1Henry C. Witelson Ocular Pathol Laboratory, Montreal, QC, Canada; 2Ocular Pathology, ‡Ophthalmology, McGill University, Montreal, QC, Canada. *CR


6679 — A669 Morgagnian Cataract Simulating Iris Neoplasia: Case Report. Alessandra Protti1, S.A. Gandolfi1, P. Morà2, L. Zogfras2. 1Ophthalmology, University of Parma, Parma, Italy; 2Ophthalmology, Jules-Gonin Eye Hospital, Lausanne, Switzerland.

6680 — A670 The Efficacy of Soap and Water Versus Bleach for the Disinfection of Gonioscopy and Laser Glasses. Ninel Z. Gregori1, A. Abbey1, F. G помещения. 1Ophthalmology, University of Parma, Parma, Italy; 2Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; 3Department of Ophthalmology, School of Medicine, Stanford University, Stanford, CA.

6681 — D701 Conjunctival Bacterial Flora And Antibiotic Resistance Patterns After Preoperative Application Of Topical Levofloxacin 0.3%. Herminia Mino de Kaspar1, L.E. Hoffmann1, L. He2, B. Li, M.M. Nentsvitch1, C. Hartigoulov1, D. Kook3, M. Grueterich1, A. Kampik1. 1Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; 2Department of Ophthalmology, School of Medicine, Stanford University, Stanford, CA.

6682 — D702 Hypertension Complicated by Cardiovascular Disease is an Important Risk Factor for the Development of Intraoperative Floppy Iris Syndrome. Cynthia I. Tung1,2, P.A. Legutko3, K. Park3. 1Ophthalmology and Visual Sciences, 2Department of Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; 3Department of Ophthalmology, Seoul Artificial Eye Center, Institutes for Biomedical Research, Seoul National University Hospital, Seoul, Republic of Korea; 4Department of Ophthalmology, Seoul National University Bundang Hospital, Seongnam, Republic of Korea.

6683 — D703 Is Topical Ketorolac Tromethamine 0.4% Ophthalmic Solution Needed for Cataract Surgery? A Randomized Controlled Trial. Flavia G. Ticly1, G. Perez2, G. Lacayo1, B.M. Samuels1,2, M. Grueterich1, A. Kampik1. 1Ophthalmology and Visual Sciences, 2Department of Ophthalmology, University of Texas Health Science Center at Houston, Houston, TX.


6685 — D705 Efficacy and security of Viscoanesthesia in phacoemulsification. Guadalupe Marquez, F. Solorio, M. Garzón, I. Urrutia, E. Chávez. Anterior Segment, Instituto de Oftalmología Conde de Valenciana, Mexico City, Mexico. *CR, ©


6688 — D708 Management Of Vitreal Loss From Posterior Capsular Rupture During Cataract Operation: Posterior Versus Anterior Vitrectomy? Chaerin Park1,2, S. Wool3, J. Hyon4, T. Kim4, K. Park5. 1Department of Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; 2Department of Ophthalmology, Seoul 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 Trief1, J. P.A. Lagouto2, M.K. Daly3. 1Ophthalmology, Veterans Affairs Boston Healthcare System, Boston, MA; 2Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 3Ophthalmology, 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.E. Erb3, T.L. Comstock4. 1Cornea Consultants, PC, McLean, VA; 2European Pharmaceutical Clinical Science, Bausch & Lomb, Montpellier, France; 3BioStatistics, 4Medical Affairs, Global Pharmaceutical, 5Bausch & Lomb, Rochester, NY. *CR, ©

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Thursday – Posters – 6691 – 6715


6692 — D712 Effect of Modified Cyclosporine A on Lens Epithelial Cell and Corneal Endothelial Viability. Elizabeth A. Lutz1, D.A. Wilkie2, A.J. Gennentsky-Metzler1, H.L. Chandler2. 1Veterinary Clinical Sciences; 2Optometry, The Ohio State University, Columbus, OH.


6694 — D714 Incidence Of Postoperative Complications In Infants Undergoing Bilateral Simultaneous, Bilateral Sequential, Or Unilateral Cataract Surgery. Sheela Masifi1, E. Agabegi1. 1Department of Ophthalmology, 2Department of Biostatistics, "Cincinnati Children's Hospital Medical Center, University of Cincinnati College of Medicine, Cincinnati, OH.

6695 — D715 Safety of Difluprednate 0.05% after Cataract Surgery in Glaucoma Patients. Jessica Prince-Wolff1, J. Cottiar1, A. Mazyan1, W-J. Yao2, J.S. Schultz1. 1Department of Ophthalmology and Visual Sciences, Montefiore Medical Center/Albert Einstein, Bronx, NY. 2Department of Biostatistics, "Cincinnati Children’s Hospital Medical Center, University of Cincinnati College of Medicine, Cincinnati, OH.

6696 — D716 Effect Of 0.1% Diclofenac Ophthalmic Solution On Inflammatory Response And Macula Following Phacoemulsification-Initial Report. Jacek P. Szaflik1, E. Zielinska1, M. Wielgorski1, T. Galecki1, J. Szaflik1. Department of Ophthalmology, Medical University of Warsaw, Warszawa, Poland.

6697 — D717 Intraocular Pressure Response in Glaucoma Patients Using Difluprednate 0.5% Post Operatively after Phacoemulsification. Melissa M. Cable. Discover Vision Centers, Independence, MO. 2CR

6698 — D718 The Effect Of Incision Technique In Reducing Intraocular Pressure After Cataract Extraction. Jordan G. Lubahn1, S.M. Reinecke1, R.W. Bowman1, S.M. Verity1, P.H. Blumquist1. Ophthalmology, Univ of TX Southwestern Med Ctr, Dallas, TX.


6701 — D721 Postoperative Visual Acuity Following Complicated Cataract Extraction In Uveitis. Catherine Origlieri1, Y. Tu1, D. Chu1. 1Ophthalmology, 2The Institute of Ophthalmology & Visual Science, Newark, NJ.


6703 — D723 Complications of Phacoemulsification After Repeated Intravitreal Injections. Michael J. Coleman1, M. McDermott1. Ophthalmology, Kresge Eye Institute, Detroit, MI.


6705 — D725 The Effect of Tamsulosin (Flomax) on Iris Vasculature. Christopher T. Hood1, M. Hussain1, T.M. Cooney1, Y.M. Elner1, R.M. Steinh1. Kellogg Eye Center, University of Michigan, Ann Arbor, MI.


6707 — D727 Intraoperative Floppy Iris Syndrome: An Association with Warfarin? Rasha I. Ali1, O. Alsheikh1. Ophthalmology, University of Texas Medical Branch, Galveston, TX.

6708 — D728 Factors Influencing Retinal Image Contrast in Eyes with Retrolodet(Reyjkjavik Eye Study). Kota Nagai1, N. Mita1, N. Hatsuakuma1, R. Honda1, H. Osada2, E. Kubo2, H. Sasaki2, K. Sasaki2, F. Jonasson1. 1Ophthalmology, Nagai Eye Clinic, Ibaraki, Japan; 2Department of Ophthalmology, 3Birmingham & Midland Eye Centre, Birmingham, United Kingdom; 4Sandwell General Hospital, Birmingham, United Kingdom.


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. Ophthalmology, 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. Takui Ohtd1, Y. Sugiyra1, T. Asano1, T. Hiroto1, M. Sawa1. Division 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.


6715 — D735 Improvement In The Achievement Of Targeted Post-Operative MRSE With Laser Anterior Capsulotomy Matches The Theoretical Model. Keith H. Edwards1, W.E. Hill1, H.S. Uy1, S. Schneider1. 1Clinical & Regulatory Affairs, LensAR Inc, Orlando, FL; 2East Hill Ophthalmology, Mesa, AZ; 3Asian Eye Institute, Makati City, Philippines. 2CR

*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


6719 – D739 Resident Cataract Surgery Outcomes with Toric Intraocular Lenses. Helen R. Moreira†, P.B. Greenberg, MD†. Division of Ophthalmology, †Section of Ophthalmology, †Providence Veterans Affairs Medical Center, Providence, RI. *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. Yoo, J-M. Pareil. 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 Aberrometer with Surgical Application. James S. Wolffsohn‡, U.K. Bhatt, A.L. Sheppard‡, S. Shakί, H. Duа, T. Mihashi†, T. Yamaguchiα. †School of Life and Health Sciences, Aston University, Birmingham, United Kingdom; ‡Midland Eye Institute, Birmingham, United Kingdom; †Ophthalmology, Nottingham University, Nottingham, United Kingdom; ‡Topcon, Tokyo, Japan. *CR


6727 – D747 In Situ Modification of Customized IOLs using the Phase Wrapping Algorithm. Ruth Sahler†, J.F. Bille†, R. Aguilerα, S. Zhou†, D. Schanzlin†. †Medical Physics, University of Heidelberg, Heidelberg, Germany; †Physics, University of Heidelberg, Mannheim, Germany; †Aaren Scientific Inc, Ontario, CA; *R&D, †Aaren Scientific Inc, Irvine, CA; *Shiley Eye Center, UCSD, San Diego, CA. *CR


6729 – D749 Effects Of Cumulative Dissipated Energy On Postoperative Corneal Pachymetry In Resident Performed Cataract Surgery. Adam G. Chun. 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. Ross†, B.A. Katz†, B.B. Markowitz†. †Ophthalmology, University of South Carolina, Columbia, SC; †Ophthalmology, University of South Carolina, Irmo, SC.

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, Israel.


6733 – D753 Evaluation Of A Warm-up Effect In Resident-performed Cataract Surgery. Mohsin Chowdhury†, J.B. Rosenberg‡, J.G. Lee†, L.A. Eisenα, A.A. Madueγ. †Albert Einstein College of Medicine, Bronx, NY; †Department of Ophthalmology and Visual Sciences, †Division of Critical Care Medicine, †Department of Medicine, †Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY; †Department 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 Wise‡, J. Wang†, A. Rathod*, N.K. Wade*. ‡Faculty of Medicine, †Ophthalmology and Visual Sciences, †University of British Columbia, Vancouver, BC, Canada; *Office of Dr. N Kevin Wade, Vancouver, BC, Canada.


6740 – D760 Complication Rate and Corneal Endothelial Impact in Phacoemulsification Performed by Ophthalmology Residents at an Argentinian University Hospital. Enrique L. Nebot, Sr.†, P.R. Ruisého Vazquez†, L. Fernández Aboyu†, H. Fernández Mendy†, J.D. Galletti†, P. Chiaradía†, J.G. Galletti‡. †Ophthalmology, Hospital de Clinicas, University of Buenos Aires, Buenos Aires, Argentina; †ECOS (Clinical Ocular Studies) Laboratory, Buenos Aires, Argentina.


6742 – D762 Comparison Between Objective And Subjective Assessment Of The Duration Of Cataract Surgery. Brivaël Le Du†, C. Temeset†, P-R. Rothschild†, O. Rostaqui†, J-B. Daudin†, D. Monnet, Sr.†, S. Grabar‡, A.P. Brezin, Sr.‡. †Hospital Eye Clinic, †Biostatistics and epidemiology, †Cochin Hospital, Paris, France.
Hall B/C  D763-D780

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

Eye Movements, Strabismus, Amblyopia & Neuro-Ophthalmology

554 Oculoplastics III

Moderator: Francisco H Andrade

1Ophthalmology, Bristol Eye Hospital, Bristol, United Kingdom; 2Psychology, University of the West of England, Bristol, United Kingdom.

J.P. Kelly3.

Mayo Clinic, Rochester, MN.

Ophthalmology, Dr RP Centre, AIIMS, New Delhi, India.

Ophthalmology, University of Illinois at Chicago, Chicago, IL.

1Ophthalmology & Visual Sciences, Univ of Illinois Eye & Ear Infirmary, Chicago, IL; 2DNA Services Facility, Univ of Illinois at Chicago, Chicago, IL.

Ophthalmology, Maidstone & Tunbridge Wells NHS Trust, Maidstone, United Kingdom.

1Ophthalmology, Baylor College of Medicine, Houston, TX; 2Ophthalmology, Cullen Eye Inst, Baylor Coll of Med, Houston, TX.

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.

Ophthalmology, University of Tennessee, Hamilton Eye Institute, Memphis, TN.

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

1Ophthalmology, Oculoplastics, 2Pathology, Brown University, Providence, RI.

6755 — D775  Gelatinous And Hard Silicone Spheres In The Rabbit Eviceredised Anophthalmic Cavities. Mayomi S. Kanauma, S.A. Schellini.
Ophthalmology, Faculdade de Medicina de Botucatu -UNESP, Botucatu, Brazil.

6756 — D776  Intraoperative Mitomycin C To Retard Future Cicatrix Formation During Severe Cicatricial Lid Retraction Repair. Renelle Pointdoyuir1, J. Gutman1, C. Calderon1, P. Langer2, R. Shinder1.
1Ophthalmology, SUNY Downstate Medical Center, Brooklyn, NY; 2Ophthalmology, University of Medicine & Dentistry of New Jersey, Newark, NJ.

Ophthalmology, Univ Hosp Case Western Med Ctr, Cleveland, OH.

1Ophthalmology, Cleveland Clinic-Cole Eye Inst, Cleveland, OH; 2Ophthalmology, Cole Eye Institute, Cleveland, OH.

Department of Ophthalmology, SUNY Downstate Medical Center, Brooklyn, NY.

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.

Ophthalmology, University of Sydney, Sydney, Australia; 2Discipline of Orthoptics, University of Sydney, Lidcombe, Australia.

1CDRH/ODE/DONED, Food and Drug Administration, Silver Spring, MD; 2Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD; 3Acumen, LLC, Burlington, CA.

1Ophthalmology, 2Pediatrics, 3Santa Maria della Misericordia Hospital, Udine, Italy.

1Ophthalmology, 2Pediatrics, 3Children’s Hospital of Philadelphia, Philadelphia, PA; 4Pediatrics, 5Children’s Hospital of Pittsburgh, Pittsburgh, PA; 6Pediatrics, University of California San Diego, San Diego, CA.

1Ophthalmology, 2Anesthesiology, 3Clinical Research Unit, CHRU Lille, Lille, France.

6767 — D787  Central Corneal Thickness and Intraocular Pressure in Moderate-Late Premature School Aged Children. Lina H. Raffa1, J. Dalgren1, A-K. Karlsson1, M.A. Gronlund1.
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.

Hall B/C  D781-D803

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

Clinical & Epidemiologic Research

555 Pediatric Ophthalmology

Moderator: Mieko Tsuruoka

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

Ophthalmology, University of Sydney, Sydney, Australia; 2Discipline of Orthoptics, University of Sydney, Lidcombe, Australia.

1CDRH/ODE/DONED, Food and Drug Administration, Silver Spring, MD; 2Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD; 3Acumen, LLC, Burlington, CA.

1Ophthalmology, 2Pediatrics, 3Santa Maria della Misericordia Hospital, Udine, Italy.

1Ophthalmology, 2Pediatrics, 3Children’s Hospital of Philadelphia, Philadelphia, PA; 4Pediatrics, 5Children’s Hospital of Pittsburgh, Philadelphia, PA; 6Pediatrics, University of California San Diego, San Diego, CA.

1Ophthalmology, 2Anesthesiology, 3Clinical Research Unit, CHRU Lille, Lille, France.

6767 — D787  Central Corneal Thickness and Intraocular Pressure in Moderate-Late Premature School Aged Children. Lina H. Raffa1, J. Dalgren1, A-K. Karlsson1, M.A. Gronlund1.
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.

6769 — D789 IOL Lender 2: Outcomes Following Surgery With And Without Primary Intraocular Lens Implantation In Children under 2 years Old. Lola A. Solobó*, J.S. Rahi**, J.A. Foster***, D. Comstock****.


6771 — D791 Investigation on the reading ability in the hyperopic children at the Nishikasai Inouye Pediatric Eye Clinic, Mikio turukou*, O. Katsumi*, M. Miyata*, M. Suzuki*, Y. Aoki*, Y. Miyanaga*, K. Inoue*, K. Oda*. Nishikasai Inouye Eye Hospital, Tokyo, Japan; Nishikasai Inouye Pediatric Ophthalmology Clinic, Tokyo, Japan; Tokyo Woman’s Christian University, Tokyo, Japan; Inouye Eye Hospital, Tokyo, Japan.


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


6779 — D799 The Impact Of Amblyopia And Strabismus On Child Development And Quality Of Life In Young Chinese Children. Audrey Chia*, Y. Chari*, E. Lamoureux*, J. Thumboo*, T. Wong*, S. Saw*. Pediatric Services, Singapore National Eye Centre, Singapore; National University Singapore, Singapore; Singapore; University of Melbourne, Melbourne, Australia; Singapore General Hospital, Singapore, Singapore; Singapore Eye Research Institute, Singapore, Singapore.

6800 — D800 Sibling Motivation Cards - New Screening Initiative in South India for Pediatric Eye Disease. Brinda Muthusamy*, B. Dey*, V. Kannusamy*, F. Moutappa*, H.J. Park*. Pediatric Ophthalmology & Strabismus, The Wilmer Eye Institute, Johns Hopkins Hospital, Baltimore, MD; Pediatric Ophthalmology & Strabismus, Aravind Eye Hospital, Pondicherry, India.


6783 — D809 Pathways of Care Following Failure of Population Based Vision Screening. Kristin Carey, A. Summers, J. Vaughan, L. Reznick. Pediatric Ophthalmology, Casey Eye Institute, Portland, OR.
6798 — D952 Lack Of Influence Of Corneal Thickness On Biomechanical Waveforms And How That Impact In Distinguishing Candidates For Lasik Or Prk. Marcony R. Sanhiago\textsuperscript{2}, R. Ambrosio, Jr\textsuperscript{3}, W.J. Dupps, Jr\textsuperscript{1}, D. Smadja\textsuperscript{4}, E.M. Espanet\textsuperscript{5}, S.E. Wilson\textsuperscript{6}, \textsuperscript{1}Ophthalmology, Cleveland Clinic Foundation, Cleveland, OH; \textsuperscript{2}Ophthalmology, University of Sao Paulo and Rio Laser, Sao Paulo and Rio de Janeiro, Brazil; \textsuperscript{3}Ophthalmology, Instituto de Olhos Renato Ambrosio, Rio de Janeiro, Brazil; \textsuperscript{4}Cole Eye Inst and Lerner Rsch Inst, \textsuperscript{5}Cole Eye Institute, \textsuperscript{6}Cleveland Clinic, Cleveland, OH; \textsuperscript{7}Ophthalmology, University of Naples, Napoli, Italy; \textsuperscript{8}University NY; \textsuperscript{9}Surgical Radiol Sci-Sch of Veterinary, Univ of Metzler1A, A.M. Mahmoud1A, J. Liu1A, D. Lee1A, S.J. Murphy3, D.J. Brown1, J.V. Jester1.

6799 — D961 Changes in Corneal Biomechanics after Descemet Stripping Endothelial Keratoplasty in Fuchs’ Dystrophy. Richard Y. Hwang\textsuperscript{2}, B. Goldhagen\textsuperscript{3}, A.N. Kuo\textsuperscript{2}, N.A. Afshari\textsuperscript{2}, \textsuperscript{1}Ophthalmology, Vanderbilt University, Nashville, TN; \textsuperscript{2}Ophthalmology, Duke University Eye Center, Durham, NC.

6798 — D962 Comparative Diagnostic Performance Of Pentacam Scheimpflug Tomography and Ocular Response Analyzer Measurements for Subclinical Keratoconus. Mariannela Delrivo\textsuperscript{1}, J.D. Galletti\textsuperscript{1}, F. Fuentes Bonthoux\textsuperscript{2}, T. Pfister\textsuperscript{1}, J.G. Galletti\textsuperscript{2}, \textsuperscript{1}ECOS (Clinical Ocular Studies) Laboratory, Buenos Aires, Argentina; \textsuperscript{2}Ophthalmology, Hospital de Clinicas, University of Buenos Aires, Buenos Aires, Argentina.

6799 — D963 Keratoconus Diagnostic Model Integrating Ocular Response Analyzer Measurements and Corneal Topography. Pablo R. Ruiseñor Vazquez, Sr\textsuperscript{1}, E.L. Nebot\textsuperscript{1}, F. Fuentes Bonthoux\textsuperscript{2}, M. Delrivo\textsuperscript{1}, T. Pfister\textsuperscript{1}, J.G. Galletti\textsuperscript{2}, \textsuperscript{1}Ophthalmology, Hospital de Clinicas, University of Buenos Aires, Buenos Aires, Argentina; \textsuperscript{2}ECOS (Clinical Ocular Studies) Laboratory, Buenos Aires, Argentina. 

6800 — D964 In Vivo Corneal Elasticity Changes After Collagen Cross-linking using Supersonic Shear Wave Imaging. David Touboul\textsuperscript{1}, T. Nguyen\textsuperscript{1}, J. Aubry\textsuperscript{1}, J. Gennisson\textsuperscript{1}, M. Tanter\textsuperscript{1}, J. Bercoff\textsuperscript{3}, J. Colin\textsuperscript{1}, \textsuperscript{1}CHU de Bordeaux, Bordeaux, France; \textsuperscript{2}Institut Langevin - espci, Paris, France; \textsuperscript{3}SuperSonic Imagine, Aix-en-Provence, France. 

6801 — D965 Natural history of Intacs in keratoconus and corneal ectasia. Jason R. Desai\textsuperscript{1}, P.S. Hersh\textsuperscript{1}, \textsuperscript{1}Ophthalmology, Cornea 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. Bauer1, L.A. Karamshina1, A.B. Kachanov2, E.B. Voronkova1, \textsuperscript{1}Theoretical & Applied Mechanics, St Petersburg State University, St Petersburg, Russian Federation; \textsuperscript{2}St-Petersburg Branch I&RTC, St Petersburg, Russian Federation.

6804 — D968 To Evaluate The Efficacy Of Riboflavin As A Cyto-Protectant For Limbal Epithelial Cells Exposed To UV-A Radiation. Debashish Das\textsuperscript{1}, D. Kamesh\textsuperscript{1}, S. Morali\textsuperscript{3}, A.A. Vincent\textsuperscript{4}, R. Shetty\textsuperscript{1}, H. Matalia\textsuperscript{8}, \textsuperscript{1}Stem Cell Research Lab, \textsuperscript{2}Cornea and Refractive Surgery, \textsuperscript{3}Narayana Nethralaya Post Grad Inst of Ophthalmol, Bangalore, India. 

6805 — D969 Implications of New Absorption and Fluorescence Measurements of Riboflavin for Corneal Cross-linking. Pavel Kamaev\textsuperscript{4}, R. Pertaub\textsuperscript{1}, M. Friedman\textsuperscript{1}, D. Muller\textsuperscript{1}, \textsuperscript{1}Research, \textsuperscript{2}Avedro, Waltham, MA. 

6806 — D970 Ultrasound-enhanced Penetration of Topical Riboflavin into the Corneal Stroma. Ricardo Lamy\textsuperscript{5}, E. Chan\textsuperscript{6}, H. Zhang\textsuperscript{7}, V. Salgaonkar\textsuperscript{7}, C.J. Diederich\textsuperscript{8}, J.M. Stewart\textsuperscript{7,9}, \textsuperscript{5}Ophthalmology, \textsuperscript{6}Radiation/Oncology, \textsuperscript{7}University of California, San Francisco, San Francisco, CA.


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


6813 — D977 Rapid Collagen Photo-crosslinking Method to Increase Cornea Mechanical Strength. Irene E. Kochevar\textsuperscript{1}, D. Cherfan\textsuperscript{1}, T.E. Gisel\textsuperscript{1}, E.E. Verner\textsuperscript{1}, R.W. Redmond\textsuperscript{1}, S. Melki\textsuperscript{1}, Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA; \textsuperscript{2}Medical Sciences Program, Boston University, Boston, MA; \textsuperscript{3}Boston 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 Cross-linking Combined With Lasik For High Myopia. Kathy M. Trait, S.L. Wang, A.J. Kanellopoulos\textsuperscript{1,2}, \textsuperscript{1}New York University School of Medicine, New York, NY; \textsuperscript{2}Laservision.gr Institute, Athens, Greece.

*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


6830 — D1160 Evaluation of Ultrasound-Assisted Thrombolysis Using Nontargeted Ultrasound Contrast Agents in a Model of Retinal Vein Occlusion. Walid F. Abdallah, H. Patel, E. Grant, G.J. "Chader, M.S. Humayun. "Ophthalmology, Doheny Eye Institute, Los Angeles, CA; "Ophthalmology, Faculty of Medicine, Zagazig University, Zagazig, Egypt; "Radiology, Keck School of Medicine, University of Southern California, Los Angeles, CA. "CR


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


6839 — D1169 Bloodflow Regulation In The Optic Nerve Head During Prolonged Elevation Of The Intraocular Pressure. John V. Lovasik, H. Kergoat, M. Parent, M.G. Quigley. "School of Optometry, University of Montreal, Montreal, QC, Canada; "Department of Ophthalmology, McGill Univ/Univ of Montreal, 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
6843 — D1173  Innervation Pattern Of NG2 Positive Percites In The Rat Coroid. Herbert A. Reitsamer1A, A. Trost4, B. Bogner34, C. Strohmal4er1A, C. Runde4, G. Grabner4, A. Ligner4, F. Schroedl4C. 1Ophthalmology, 2Molecular Regenerative Medicine, 3Anatomy, 4Paracelsus University Salzburg, Salzburg, Austria.


6845 — D1175 Signaling Pathway for Porcine Retinal Arteriolar Constriction to PKC Activation: Roles of L-type Voltage-operated Calcium Channels, Myosin Light Chain Kinase and Myosin Light Chain Phosphatase. Luke B. Potts1, L. Kuo2, W. Xu1, T.W. Hein1. 1SBTM, Texas A&M Health Science Ctr, Temple, TX; 2Surgery, Scott & White Memorial Hospital, Temple, TX. 36

6846 — D1176 Correlation Of Retinitis Pigmentosa Disease Stage With Orbital Color Doppler Imaging. Amani S. Albaki, E. Al-Shahwan, S.R. Nowiatly. Vitreoretinal Division, King Khaled Eye Specialist Hospital, P.O Box 7191, Riyadh 11462, Saudi Arabia.

6847 — D1177 Theoretical Analysis Of Myogenic And Metabolic Responses In Retinal Blood Flow Autoregulation. Julia Arciero1, A. Pickrell2, B. Stienski1, A. Harris2. 1Mathematics, Indiana University-Purdue University Indianapolis, Indianapolis, IN; 2St. George’s University School of Medicine Grenada West Indies, Great River, NY; 3Ophthalmology, Indiana University School of Medicine, Indianapolis, IN.

6848 — D1178 The Dcx-dsRed Transgenic Rat As A Model To Study Pericyte Function? Andrea Trost4, F. Schroedl4, B. Bogner4, C. Strohmal4er4, C. Runde4, G. Grabner4, A. Ligner4, H.A. Reitsamer4. 1Ophthalmology/Optometry, 2Anatomy, 3Molecular Regenerative Medicine, 4Paracelsus Medical University, Salzburg, Austria.

6849 — D1179 Caffeine Affects Ocular Microcirculation In Young Healthy Subjects. Naim Terai1, E. Spoer1, R.P. Stodmeister1, L.E. Pilunat1. 1Ophthalmology, 2Dept of Ophthalmology, 3University of Dresden, Dresden, Germany; 4Ophthalmology, University Hospital Carl Gustav Carus, Rodelsberg, Germany.


6856 — D1186 Intracocular Vascular Communication Through Collateral Vessels In An Experimental Pig Model. Hakan Moren1, B. Gesslein1, P. Undren1, S. Andreasson1, M. Malmsjö1. 1Ophthalmology, Retinal Vascular Research, Lund University, Lund, Sweden; 2Department of Neuroradiology, Skåne University Hospital, Lund, Sweden.

6857 — D1187 Dorzolamide-induced Vasorelaxation of Porcine Ciliary Arteries is Mediated by Nitric Oxide. Sidsle Kristelsholm, U. Simonsson2, T. Bekt1. 1Department of Ophthalmology, Aarhus University Hospital, Aarhus C, Denmark; 2Department of Biomedicine, Aarhus University, Aarhus C, Denmark.


6859 — D1189 Relationship between Subfoveal Choroidal Thickness and Choroidal Circulation in Response to Increased Systemic Blood Pressure Induced by Cold Pressure Test. Kenji Sogawa1, T. Nagaoka1, T. Tani1, T. Tanano1, T. Omae1, A. Yoshida1. Ophthalmology, Asahikawa Medical University, Asahikawa, Japan; 2Ophthalmology, Asahikawa Medical College, Asahikawa, Japan.


6861 — D1191 Time of Collapse of Spontaneous Venous Pulsation. Fabrice Moret1, W.A. Lagrèce2, C.M. Poloschek3, M. Bach4. 1Sect. Visual Function and Electrophysiology, 2Sect. Neuroophthalmology, 3Eye Hospital, University of Freiburg, Freiburg, Germany.

6862 — D1192 Manometric Investigation Of The Relationship Between Pulsatile Ocular Blood Flow And Intracocular Pressure In Living Human Eyes. Nikolaos Karyotakis1, H.S. Ginis2, A.I. Dastiridou1, M.K. Tsilimbaris2. 1Ophthalmology School, University Of Crete, Heraklion, Greece; 2Institute of Vision & Optics, 3Ophthalmology-Research Acct, 4University of Crete, Heraklion, Greece; 5Medicine School, University Of Larisa, Larisa, Greece; 6School of Medicine, University of Crete, Heraklion - Crete, Greece.


6864 — D1194 Optic Nerve Head Capillaries Blood Oxygenation Following Dynamic Exercise in Human. Vasile Diaconu, P. Sauvageau, V. Vuca. Ecole D’optometrie, University of Montreal, Montreal, QC, Canada.

6865 — D1195 Age Effects on Retinal Blood Flow Assessed Using Spectral-Domain Optical Coherence Tomography Doppler. Firdaus Yosof2, F. Tayyar1, J.G. Flanagan1, C. Hudson3,4. 1School of Optometry and Vision Sciences, University of Waterloo, Waterloo, ON, Canada; 2Department of Optometry and Visual Science, International Islamic University of Malaysia, Bandar Indera Mahkota, Kuantan, Malaysia; 3Department of Ophthalmology and Vision Sciences, University of Toronto, Toronto, ON, Canada. *CR

6866 — D1196 Effect of Slow Releasing Hydrogen Sulfide Donor GY4137 on Isolated Bovine Ciliary Artery. Madhura S. Kulakarni4, N. Njie-Myte4, C.A. Opere4, M. Whiteman2, S.E. Ohia1,8. 1Pharmaceutical Sciences, 2Provost/Academic Affairs, 3Texas Southern University, Houston, TX; 4Pharmacy Sciences, Creighton University, Omaha, NE; 5University of Exeter, Peninsula Medical School, Exeter, United Kingdom.

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Thursday – Posters – 6843 – 6866

11:15 am – 1:00 pm 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 Palioura1,2, Y. Gobin1, S.E. Brodie1, I. Dunkel1, B. Marr1, D. Abramson1. 1Ophthalmic Oncology Service, Memorial Sloan-Kettering Cancer Center, New York, NY; 2Currently, Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 3Division of Interventional Neuroradiology, Departments of Radiology, Neurosurgery and Neurology, Weill Cornell Medical College, New York Presbyterian Hospital, New York, NY; 4Department of Ophthalmology, Mount Sinai School of Medicine, New York, NY; 5Department of Pediatrics, Memorial Sloan-Kettering Cancer Center, New York, NY.


6870 — D1200 RXRG agonist Bexarotene Suppresses Retinoblastoma Growth by Enhancing TRB1 and p53 Tumor Suppressor Activity. Xiaojiang L. Xu1A, R. Jia1A, H. Huang1A, W. Joseph1A, N. Zhou1A, D.H. Abramson1B, X. Fan1A, S.C. Jhanwar1A. 1Department of Pathology, #Ophthalmic Oncology Service, #Memorial Sloan Kettering Cancer Center, New York, NY; 2Department of Ophthalmology, Shanghai Jiaotong University, Shanghai, China.

6871 — D1201 The Protein Kinase C (PKC)/Protein Kinase D (PKD)/Steroid Receptor Coactivator (SRC)-3 pathway is an important therapeutic target in Gu-mutant Uveal Melanomas. Vassiliki Poulopaki1, S. Chew2, B. He3, V. Eeduarut1, D. Bedoya2, M.J. Jager6, B.W. O’Malley2, N. Mitsiades3. Ophthalmology, VA Boston Healthcare System, Boston University, Boston, MA; 5Medicine/Molecular and Cellular Biology, #Molecular and Cellular Biology, #Bayor College of Medicine, Houston, TX; 2Adrienne Helis Malvin Medical Research Foundation, New Orleans, LA; 3Ophthalmology, Leiden University Med Center, Leiden, The Netherlands.


6876 — D1206 Therapeutic Efficacy By Targeting Correction Of Notch-induced Aberrants In Uveal Tumors. Xiaolin Huang1, L. Wang1, H. Zhang1, R. Jia1, H. Wang2, X. Zhao1A, G. Qian1, A.D. Singh1B, S. Ge1, T. Granner1B. 1Department of Ophthalmology, Ninth People’s Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, P.R., China; 2Department of Biochemistry and Molecular Biology, Shanghai Jiaotong University School of Medicine, Shanghai, P.R., China; 3Cole Eye Institute, Cleveland, OH.

6877 — D1207 Towards A Novel Therapy for Uveal Melanoma: Targeting Oncogenic Gch2. Timothy W. Corson, K. Sinflia. Glick Eye Institute, Department of Ophthalmology, Indiana University School of Medicine, Indianapolis, IN.

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. *Biochemistry and Molecular Biology, Medical University of South Carolina, Charleston, SC; *Ophthalmology, Medical Univ of South Carolina, Charleston, SC.


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. Asper*, E. Moissieiev*, A. Gefen*. *Ophthalmology, Tel Aviv Medical Center, Tel Aviv, Israel; *Sackler School of Medicine, Dept. of Biomedical Engineering, *Tel Aviv University, Tel Aviv, Israel.


6895 — 2:00 Numerical analysis of the influence of Intraocular Pressure on the photorefractive keratectomy for myopia correction. Maria A. del Buey*, E. Lanches*, J.A. Cristóbali*, B. Calvo*, J.C. Ascaso, L. Lavilla, C. Palomino, N. Cruz*, P. Casas*. *Ophthalmology, Lozano Blesa University Clinic Hospital, Zaragoza, Spain; *Quiron Hospital, Zaragoza, Spain; *Mechanical Engineering, University of Zaragoza, Zaragoza, Spain; *Ophthalmology, Quiron Hospital, Madrid, Spain.


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


6901 — 1:45 Ifo-γ Is Critical For Disease Pathogenesis In A Spontaneous Mouse Model Of Autoimmune Uveitis. Jun Chen, B. 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. Bronkhorst1, T. Vu2, E.S. Jordanova3, G.P. Layten4, S.H. van der Burg6, M.J. Jager5. 1Ophthalmology, 2Pathology, 3Clinical Oncology, 4Leiden University Medical Center, Leiden, The Netherlands; 5Ophthalmology, Leiden University Med Center, Leiden, The Netherlands.

**6903 — 2:15** IL-4 Conditions Macrophage In Vitro and Retina In Vivo to Generate Soluble Flt-1 Expression and Inhibit Laser-induced CNV in Mice. Wei-Kang Wu1, L.B. Nicholson2, A.D. Dick3. 1School of Cellular and Molecular Medicine, 2School of Clinical Sciences, 3University of Bristol, Bristol, United Kingdom.

**6904 — 2:30** Local Generation of Regulatory T Cells in the Retina. Scott W. McPherson, N.D. Heuss, D.S. Gregerson. Department of Ophthalmology, University of Minnesota, Minneapolis, MN.

**6905 — 2:45** Decreased Interleukin-27 Expression is Associated with Active Uveitis in Behcet’s Disease. Peizeng Yang1, C. Wang2, Y. Tian1, Z. Ye1, A. Kijlstra2. 1Ophthal, The 1st Hosp, Chongqing Medical University, Chongqing, China; 2Ophthal, University Hospital Maastricht, Maastricht, The Netherlands.

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**Room 305**

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

**Lens**

**562 Signaling and PCO**

**Moderators:** John W McAvoy and Ales Cvekl

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

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

**6908 — 1:45** Genome-wide Identification Of Genes And MicroRNAs Regulated By Fgf2 During In Vitro Lens Fiber Cell Differentiation. Louise V. Wolf, C.C. Gaar, K. Gueta1, N. Podduturi1, P.S. Zelenka1, R. Ashery-Padan1, J. Zavadin1, A. Cvekl1. 1Ophthalmology & Visual Sciences and Genetics, Albert Einstein College of Medicine, Bronx, NY; 2LMD, NEI, Bethesda, MD; 3Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel; 4Lane Center, NYU, New York, NY.

**6909 — 2:00** Inhibition Of Human Lens Epithelial Cell Contraction By Alkylphosphocholines For PCO Prophylaxis And Downregulation Of The PI3K Pathway. Raffael Liegl, M. Körnt, A. Wolf, D. Kook, C. Hartrogloou, A. Kampik, K.H. Eibl-Lindner. Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany.

**6910 — 2:15** A Putative Role for Histamine Releasing Factor in Posterior Capsule Opacification. I.M. Wormstone1, J.K. Kular1, J.R. Reddan1, L.J. Dawes2. 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 Park1, A.I. Son1, R. Hua2, X. Zhang2, R. Zhou2. 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 Mpeg-pcl Nanoparticle For Prevention Of Posterior Capsular Opacification. Aditya Konar1, R. Guha1, S. Chowdhary1, H. Palui2A, A.J. McCall1, Dinesh Upadhyia, L. Reneker. 1School of Cellular and Molecular Medicine, 2School of Clinical Sciences, 3University of Bristol, Bristol, United Kingdom.

**Room 315**

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

**Visual Neurophysiology**

**563 Ganglion Cells: Types, Modulation and Development**

**Moderators:** Maureen McCall and William R Taylor

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

**6914 — 1:30** What Information Does The Eye Send To The Brain? Recording The Entire Visual Output At A Single Retinal Location. Tom Baden1, P. Berens1, M. Bethge1, T. Euler1. 1BCCN / CIN, 2BCCN / CIN / MPI, University of Tuebingen, Tuebingen, 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 Stafford1, K.Y. Wong1, J.B. Domb2. Ophthalmology and Visual Sciences, University of Michigan, Ann Arbor, MI; 2Ophthalmology & Visual Sciences, Yale University, New Haven, CT.

**6919 — 2:45** Tyrosine Kinase Fyn Regulates The Development Of Retinal Ganglion Cell Dendritic And Axonal Maturation. Ping Wang, University of Utah, Salt Lake City, UT.

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**Palm A**

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

**Anatomy & Pathology**

**564 Myopia IV: Clinics**

**Moderators:** Thomas T Norton and Jane E Owczarek

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

**6921 — 1:30** Choroidal thickness associated with spherical equivalent in healthy young adults: The Raine Eye Health Study. Alexander X. Tan1, H. Forward1, C. McKnight1, S. Yazari4, C. Pennelli1, J. Mountain1, T.L. Young2, A.W. Hewitt3, D.A. Mackey1, F.K. Chen4. 1Lions Eye Institute, 2Telethon Institute for Child Health Research, 3University of Western Australia, Perth, Australia; 4Ophthalmology, Duke University Eye Center, Durham, NC; 5Department of Ophthalmology, Centre for Eye Research Australia, Surrey Hills, Australia.

**Eyes Affected by Choroidal Neovascularization.** Miyake K., Yamashiro H., Nakanishi H., Gene 6926.

**1:30** Central and Peripheral Outer Nuclear Layer Thickness Differences between Myopes and Hyperopes/Emmetropes using Spectral Domain Optical Coherence Tomography. Christopher A. Clark, A.E. Elsner, T.Y. Chiu.


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


**3:45** C-REALITY (Canadian Burden of Diabetic Macular Edema Observational Study). John R. Gonder, V. Walker, N. Zaour, M. Barbeau, L. Hensley, R. Li, F. Ophthalmology, Ivey Eye Institute, London, ON, Canada; 2OptumInsight, Burlington, ON, Canada; 3Novartis Pharmaceuticals Canada Inc, Montreal, QC, Canada. *CR, Travel Grant Awardee*


6937 — 2:00 Characteristics of Patients Presenting to the Emergency Department with Sight-Threatening Ocular Conditions. Dolly A. Fadavani-Claudio, N. Talwar, P.P. Lee, J.D. Stein. Ophthalmology & Visual Sciences, Kellogg Eye Center, Ann Arbor, MI.

6938 — 2:15 Prevalence of Functional Low Vision and Need for Annualized Eye Evaluation in Adult Malays and Indians Living in Singapore. Yingfeng Zheng1,2, C-Y. Cheng1, E.L. Lamoureaux, III1, P. Chiang1, A. Anuar1,2, T. Aung1, S-M. Saw1, T.Y. Wong1, 1Singapore Eye Research Institute, Singapore National Eye Centre, Singapore, Singapore; 2State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University, Guangzhou, China; 3Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 4Ophthalmology, University of Melbourne, Melbourne, Australia; 5Eye Research Australia, University of Melbourne, Australia.

6939 — 2:30 Excess Expenditures, Excess Informal Care Days, and Quality of Life Decrement Associated with Self-Reported Visual Impairment and Blindness. Kevin D. Frick1, L.L. Grover1, E. Wehler1. 1Health Policy and Management, Johns Hopkins Bloomberg Sch of Public Hlth, Baltimore, MD; 2Ophthalmology, Johns Hopkins Univ Wilmer Eye Inst, Baltimore, MD.

6940 — 2:45 Lack of Government-insured Annual Eye Examinations Increases The Risk Of Vision Problems Amongst Low-income Elderly. Yaping Jin1, Y.M. Buys1, J. Xiong2, G.E. Trope1. 1Ophthalmology & Vision Sciences, University of Toronto, Toronto, ON, Canada; 2University of Waterloo, Waterloo, ON, Canada; 3Ophthalm/ 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. Joachim1, O.W. Gramlich1, P. Laspa2, S. Kuehn1, H.D. von Pein1, B. Dick1, F.H. Grus3. 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 Garmisiri, 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. amber m. frye1, D. Ryskamp2, S. Chashani1, A. Jo1, D. Krizaj2. 1Moran Eye Institute, The University of Utah, Department of Ophthalmology & Visual Sciences, Salt Lake City, UT; 2Ophthalmology, The University of Utah, Salt Lake City, UT.

6945 — 2:15 Anti-Connective Tissue Growth Factor Antibody Therapy Combats Expression of Fibrotic Genes in Glaucoma. Deborah M. Wallace1,2, A.F. Clark2, N. Oliver2, J.K. Cream2, C.J. O’Brien2. 1School Medicine & Medical Science, School of Biomolecular & Biomedical Science, Conway Inst., University College Dublin, Dublin, Ireland; 2Dept. Of Ophthalmology, Mater Misericordiae University Hospital, Dublin, Ireland; 3Cell Biology & Anatomy, University of North Texas HSC, Forth 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 Russell1, K. Murphy2, J.A. Wood2, C.T. McKee1, C.J. Murphy2. 1School of Veterinary Medicine, 2School of Biomedical Engineering, School of Medicine and School of Veterinary Medicine, University of California Davis, Davis, CA.

6947 — 2:45 Defects In Whole Cell Respiration In POAG Lymphoblasts. Jonathan G. Crowston1, L. Sheek1, N.J. Van Bergen1, S. Lee1, V. Chrysostomou1, A.L. Vincent1, J.A. Trounce1. 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 Electronic Implants: Study in Ten Patients With Wireless Implant Alpha-IMS. Eberhart Zrenner1, K-U. Bartz-Schmidt1, F. Gekeler1, U. Greppmaier1, S. Hipp1, G. Hoerdtower1, C. Kersnoch1, A. Kusnyerik1, H. Sachs1, K. Stingl1. 1Institute for Ophthalmic Research, Centre for Ophthalmology, Tuebingen, Germany; 2Retina Implant AG, Reutlingen, Germany; 3Mobility Training, Tuebingen, Germany; 4Sennelweis University, Budapest, Hungary; 5Städtisches Klinikum Dresden-Friedrichstadt, Dresden, Germany. *CR

6949 — 1:30 Cortical Responses to Repetitive Electrical Stimulation of the Retina using Suprachoroidal Virtual Prostheses. Sam E. John1, M.N. Shivadasani1, J.B. Fallon1, G. Rathbone1, C.E. Williams1. 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 McCarthy1, P. Lieby2, J.G. Walker1, A.F. Scott1, V. Botea1, N. Barnes1. 1Bionics Institute/Latrobe University, East Melbourne, Australia; 2Canberra Research Laboratory, NICITA, Canberra, Australia; 3Engineering, Australian National University, Canberra, Australia. *CR

6951 — 2:00 The influence of visual information on walking behaviour in the Graz Mobility Test. Thomas Georgi1, D. Iavicinovic1, M. Brandner1, R. Hornig1, M. Vellkay-Parel1. 1Ophthalmology, Medical University of Graz, Graz, Austria; 2IM Intelligent Medical Implants GmbH, Bonn, Germany.
6952 — 2:15 Patients blinded by outer retinal dystrophies are able to perceive simultaneous colors using the Argus II Retinal Prosthesis System. Paulo E. Stanga, J.A. Sahel, Jr., L. da Cruz, F. Hajezi, F. Merlini, B. Coley, R.J. Greenberg, 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,

6953 — 2:30 Results Update from Second Sight’s Argus II Retinal Prosthesis Study. Mark S. Humayun, L. da Cruz, G. Dagnelie, J-A. Sahel, P.E. Stanga, E. Filley, D. Elliott, J. Duncan, R.J. Greenberg, 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; 5Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 6Retina Foundation of the Southwest, Dallas, TX; 7Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 8University of California, San Francisco School of Medicine, San Francisco, CA; 9Second Sight Medical Products, Sylmar, CA. *CR,
