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

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

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### Thursday, May 10 • Posters

**8:30–10:15am**

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

**Program #

Board #

542 Color Vision [VI] | #6390-6408 (A80-A98)
543 Retinal Degeneration and Neuroprotection [RC] | #6409-6444 (A302-A337)
544 AMD Disease Mechanisms II [BI] | #6445-6462 (A371-A388)
546 AMD Clinical Research VII [RE] | #6511-6537 (A513-A539)
547 Retina and RPE Cell Biology [RC, VN] | #6538-6569 (A540-A571)
549 Cataract Surgery I [LE] | #6618-6651 (A607-A640)
550 Cataract Surgery II [LE] | #6652-6680 (A641-A670)
551 Cataract Complications and Drugs [LE] | #6681-6709 (D701-D729)
552 Cataract Training, Modeling, Pediatrics [LE] | #6710-6742 (D730-D762)
553 Ocularoplastics III [EV] | #6743-6760 (D763-D780)
554 Pediatric Ophthalmology [CL] | #6761-6783 (D781-D803)
555 Corneal Biomechanics II [CO] | #6784-6822 (D948-D986)
556 Blood Flow [PH] | #6823-6866 (D1153-D1196)
557 Tumors: New Drugs, Delivery Systems and Mechanisms of Action [PH] | #6867-6884 (D1197-D1214)
558 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.
Thursday – Papers – 5569 – 5583

Florian 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

Florian BCD

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

Cornea

502 Reshaping the Cornea: Present and Future of Refractive Surgery

Moderators: Jesper Hjortdal and Dan Epstein

5569 — 8:30

Enantiomorphism Of The Human Cornea Based On Corneal Topography 3D Atlas Analysis. Georges M. Durr1, E. Anwinet2, J.A. Ong2, M. Gilsa2, M-E. Chorzon2, J. Meunier2,3, I. Brunette2,3. 1Maisononneuve–Rosemont Hospital Research Center, Montreal, QC, Canada; 2Computer Science and Operations Research, 3Ophthalmology, University of Montreal, Montreal, QC, Canada.

5570 — 8:45

A Novel Approach To Determine Theoretical Head Tilt Effect On Ocular Cyclo torsion Measurements During Laser Refractive Surgery. Adam L. Prickett1,4, W. Chamon1, K.M. Bu1, J. Hallak1, P. Bakhtiari1, D.T. Azar1. 1Ophthalmology, 2Ophthalmology & Visual Sciences, 3University of Illinois at Chicago, Chicago, IL; 4Ophthalmology, University of Illinois Chicago, Chicago, IL; 3Ophthalmology, University of Illinois Hospitals, Chicago, IL; 2Ophthalmology, Illinois Eye and Ear Infirmary, Chicago, IL; 1Ophthalmology and Visual Sci, Univ of Illinois at Chicago, Chicago, IL.

5571 — 9:00


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. 3CR

5575 — 10:00

Femtosecond Laser Based Small Incision Lenticule Extraction For Moderate And High Myopia. Jesper Hjortdal1, 2, A. Ivarsen, 3, A. Vestergaard. Ophthalmology, Aarhus University Hospital, Aarhus, Denmark. 2Ophthalmology, McMaster University, Hamilton, ON, Canada; 3Ophthalmology, Aarhus University Hospitals, Aarhus, Denmark.

5577 — 8:45

Gene Therapy For Choroideremia - Initial Report On A New Clinical Trial. Robert E. MacLaren1, M. Groppi1, A.R. Barnard2, T. Tolmachova1, M.J. During3, S.M. Downes4, A.J. Lottery5, G.C. Black6, A.R. Webster2, M.C. Seabra3. 1Nuffield Laboratory of Ophthalmology, University of Oxford, Oxford, United Kingdom; 2Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom; 3Molecular Genetics, “Federico II” University, Naples, Italy; 4Department of Biochemistry & Molecular Biology, Columbia University, New York, USA; 5Genetic Medicine, University of Manchester, Manchester, United Kingdom; 6UCL Institute of Ophthalmology, London, United Kingdom.

5578 — 9:00

Adenoviral and Lentiviral Vectors for Efficient Gene Transfer to Mouse Retina. Agostina Puppo, 2, M. Cesini, 3, D. Palmer, 4, P. Piccolo5, R.J. Parks1, 6, N. Brunetti-Pierri7, R. Auricchio8. 1TIGEM- Telethon Institute of Genetics and Medicine, Naples, Italy; 2Dept. of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX; 3Ottawa Hospital Research Institute, Ottawa, ON, Canada; 4Dept. of Pediatrics, Medical Genetics, “Federico II” University, Naples, Italy.

5579 — 9:15


5580 — 9:30

A Novel Method To Transfect Retinal Pigment Epithelial Cells Without Detaching The Retina. Francine F. Behar-Cohen1, E. Touchard9, B. Marianne2, M. Savoldelli3, M-C. Naud4, J-C. Jeanny2. 1Ophthalmology, Hotel Dieu de Paris, Universite Paris Descartes, Paris, France; 2Ophthalmology, Limoges University, Limoges, France; 3Ophthalmology - Eye Unit, Southampton General Hospital, Southampton, UK; 4Ophthalmology, University of Miami, Miami, FL; 5Bascom Palmer Eye Inst, Univ of Miami, Miami, FL; 6Smith Eye Inst, Univ of Miami Miller Sch Med, Miami, FL; 7Ophthalmology, 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. 3CR

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. Pesheko, E. V. Oleshkysaya, S. Lim, J.B. Ames, A.M. Dizhoor. 1Pennsylvania College of Optometry, Salus University, Elkins Park, PA; 2Department of Chemistry, University of California, Davis, CA.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – # Refer to Program Number in the Clinical Trial (CT) Registration Index – Travel Grant Awardee
5584 — 8:45 Alzheimer Retina Pathology in a Novel Animal Model of Neuroanatomical
Diabetes. Peter Frederikse1, R. Kaswala2, W. Klein1, C. Kastanath1. 1Pharmacology & Physiology, UMD New Jersey Medical School, Newark, NJ; 2Oral Biology, UMD New Jersey Dental School, Newark, NJ; 3Neurobiology & Physiology, Northwestern University, Evanston, IL. *CR

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


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

5589 — 10:00 Tet3 is an Essential Epigenetic factor for Eye development. Stephen P. Sugrue1, G. Xu2, Y. Kato1, Y. Xu1, Y. Shi2. 1Anatomy & Cell Biology, University of Florida, Gainesville, FL; 2Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences, Shanghai, China. *CR

5590 — 10:15 Post-translational Modifications of BFSP1. Roy A. Quinlan1, A. Tapodi1, E.W. Tate1, W.P. Heaf1, A.R. Prescott1. 1School of Biological/Biomedical Sciences, Biophysical Sciences Inst, Durham Univ, Durham, United Kingdom; 2Department of Chemistry, Imperial College, London, United Kingdom; 3School of Life Sciences, CHIPs and Division of Cell Biology and Immunology, Dundee University, Dundee, United Kingdom.


5592 — 9:00 Glutaredoxin (Grx2) Gene Knockout Suppresses Fiber Cell Differentiation and Delays De-nucleation of the Mouse Lens. Marjorie F. Lou1,2, S. Basu1, Y. Yu1, H. Wu1, A. Menko1. 1Veterinary Medicine & Biomedical Sciences, University of Nebraska-Lincoln, Lincoln, NE; 2Department of Ophthalmology, University of Nebraska Medical Center, Omaha, NE; 3Pathology Anatomy & Cell Biology, Thomas Jefferson University, Philadelphia, PA.

5593 — 9:15 K6W Mutant Ubiquitin Activates Calpain In Lens. Ke Liu1, A. Caceres1, J. Peng1, F. Shang1, J. Gao1, X. Sun1, R.T. Mathias1, A. Taylor1. 1Human Nutrition Resrch Ctr on Aging, Tufts University, Boston, MA; 2Structural Biology, St. Jude Children’s Research Hospital, Memphis, TN; 3Physiology & Biophysics, State Univ of NY-Stony Brook, Stony Brook, NY.

5594 — 9:30 Dlg-1 and Scrib are Modulators of Wnt/PCP in the Mouse Ocular Lens. Shalini Shatald1, R. Rachel3, A. Griep4. 1Cell and Regenerative Biology, 2Anatomy, 3Univ of Madison-WI, Madison, WI.

5595 — 9:45 Post-translational Modifications of BFSP1. Roy A. Quinlan1, A. Tapodi1, E.W. Tate1, W.P. Heaf1, A.R. Prescott1. 1School of Biological/Biomedical Sciences, Biophysical Sciences Inst, Durham Univ, Durham, United Kingdom; 2Department of Chemistry, Imperial College, London, United Kingdom; 3School of Life Sciences, CHIPs and Division of Cell Biology and Immunology, Dundee University, Dundee, United Kingdom.

5596 — 10:00 Chromatin Remodeling Enzymes Smfl2h/smarca5 And Brlg1/smarca4 Are Independently Required For Mouse Lens Morphogenesis. Shuying He1A, J. Sun1A, J. Kokavcev2, T. Stotka2, A. Skoultchi2, J. Zavadil3, A. Cvekl1A. 1Ophthalmology & Visual Sciences and Genetics, 2Cell Biology, 3Albert Einstein College of Medicine, Bronx, NY; 4Institute of Pathological Physiology and Center of Experimental Hematology, First Faculty of Medicine, Charles University, Prague, Czech Republic; 5New York University Langone Medical Center, New York, NY.

5597 — 8:30 In Vivo Optical Recording From Mouse Retinal Ganglion Cells. Lu Yin1A, A.H. Cetin1, Y. Geng1A, E. A. Sharma1A,2, K. Ahmad1A,2, E.M. Callaway3, D.R. Williams1A,2, W.H. Merigan1A,2. 1Center for Vision Science, 2Institute of Optics, Flau Eye Institute, University of Rochester, Rochester, NY; 3Systems Neurobiology Laboratories, Salk Institute for Biological Studies, La Jolla, CA. *CR


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

5601 — 9:30 Imaging The Living Human Cone Inner Segment. Rav1 S. Jonnal1A, O.P. Kocaoğlu1A, Q. Wang1A, Z. Liu1A, D.T. Miller1A. 1Program in Vision Science, School of Optometry, Indiana University, Bloomington, IN. *CR

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

5603 — 10:00 Adaptive Optics-Assisted Optical Coherence Tomography For Patient Imaging. Barry Cense1, K. Sudo1, K. Kurokawa1, Y. Yasuno1. 1Ctr for Optical Resrch & Education, Utsunomiya University, Utsunomiya, Japan; 2Institute of Applied Physics, Computational Optics Group, Tsukuba, Japan; 3Computational Optics Group, University of Tsukuba, Tsukuba, Japan. *CR
507 Eye Movements, Nystagmus and Amblyopia

Modulators: Benjamin Thompson and Larry A Abel


1Institute of Molecular Life Sciences, University of Zurich, Zurich, Switzerland; 2Department of Ophthalmology, University of Cologne, Cologne, Germany; 3Department of Ophthalmology, University of Erlangen, Erlangen, Germany.


1Institute of Molecular Life Sciences, University of Zurich, Zurich, Switzerland; 2Department of Optometry and Vision Science, 1University of Auckland, Auckland, New Zealand.


1Optometry & Vision Sciences, University of Melbourne, Carlton, Australia; 2Human Communication Sciences, La Trobe University, Bundoora, Australia.


1Optometry & Vision Sciences, University of Melbourne, Carlton, Australia; 2Department of Optometry and Vision Science, 1University of Auckland, Auckland, New Zealand; 3Psychology, Brunel University, London, United Kingdom.

5608 — 9:30 Saccadic Adaptation In Amblyopia. Rana Arham Raaschid, M. Chandrakumar, A. Blakemar, H. Goltz.

1Neuroscience and Mental Health, 2Department of Ophthalmology and Vision Sciences, 1The Hospital for Sick Children, Toronto, ON, Canada; 3University of Toronto, Toronto, ON, Canada.


1Ophthalmology, University of Leicester, Leicester, United Kingdom; 2Bradford Teaching Hospitals, Bradford, United Kingdom; 3Medical Physics, University Hospitals of Leicester, Leicester, United Kingdom.


1Retina Foundation of the Southwest, Dallas, TX; 2Ophthalmology, UT Southwestern Medical Center, Dallas, TX; 3Pediatric Ophthalmology & Adult Strabismus, Plano, TX.

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

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


1Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.


1Section of Ophthalmology, Department of Head and Neck Surgery, 2Department of Radiation Oncology, 1The University of Texas MD Anderson Cancer Center, Houston, TX.

5613 — 9:00 Mir211 is Dysregulated In Conjunctival Melanocytic proliferations. Alexandre P. Moutin, M. Nicolas, A. Schalenberg, M. Humedam, Z. Leonidas, L. Duncan.

1Pathology, Ophthalmology, 2Jules Gonin Eye Hospital, Lausanne University, Lausanne, Switzerland; 3Dermatopathology, Massachusetts General Hospital, Harvard Medical School, Boston, MA.


1Department of Ocular Pathology, 2Department of Ocular Microbiology, 3Ophthalmploymastry service, 4Dr.R.P.Centre, A.I.M.S, New Delhi, India; 5Division of Biochemistry and Biotechnology, National Centre for Disease Control, New Delhi, India.


1Department of Ophthalmology & Visual Sciences, 2Department of Ophthalmology & Visual Sciences, 3Department of Pathology, 4University of British Columbia, Vancouver, BC, Canada.


1Department of Ophthalmology, University of Cologne, Cologne, Germany; 2Department of Ophthalmology, University of Erlangen, Erlangen, Germany.


2Bascom Palmer Eye Institute, Coral Gables, FL; 3Ophthalmology, Bascom Palmer Eye Institute, University of Miami, FL; 4Electrical Engineering and Radiology, 5Bioengineering & Materials Science and Engineering, 6Stanford University, Palo Alto, CA; 7Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.

Grand D

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

Glucoma / Multidisciplinary Ophthalmic Imaging Group

509 Structural and Functional Approaches in Glaucoma

Modulators: Felipe A Medeiros and Anders Heijl


1Casey Eye Institute, Oregon Health & Science Univ, Portland, OR; 2Ophthalmology, USC, Doheny Eye Institute, Los Angeles, CA. *CR.


2Glaucoma Research Unit, NIHR Biomedical Research Centre for Ophthalmology, Moorfields Eye Hospital NHS Foundation Trust and UCL Institute of Ophthalmology, London, United Kingdom; 3Department of Optometry and Visual Science, City University London, London, United Kingdom.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures. Refer to Program Number in the Clinical Trial (CT) Registration Index. Travel Grant Awardee.
5622 — 9:30 Agreement Between Contrast Sensitivity Perimetry (CSP) And Clinical Measures Of Glaucomatous Damage: Validation Of A Neural Model For A Longitudinal Study. William H. Swanson1, V.E. Malinovsky1, M.W. Dul1, 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 Ctr for Ophthal, London, United Kingdom.


5624 — 10:00 Correlation of Brain Volumes and Functional Deficits in Glaucoma. Alice L. Williams1, J. Lackey2, S. Wizov3,4, S. Gatla4, R. Sergott1, T. Chia1, S. Lai1, G.L. Spaeth1,4. 'Temple University School of Medicine, Philadelphia, PA; 2Department of Radiology, Thomas Jefferson University, Philadelphia, PA; 3William A. and Anna V. Goldberg Glaucoma Service, Weill Cornell Medical College, New York, NY; 4Wills Eye Institute, Philadelphia, PA; 5Thomas Jefferson University School of Medicine, Philadelphia, PA.

5626 — 8:45 Successful Photoreceptor-Directed Gene Therapy with AAV2/5-hRPGGR Reverses Post-Receptoral Remodeling in Canine Models of X-linked RP. Gustavo D. Aguirre1, A.V. Cideciyan1, A.S. Levitt1, S. Iwabe1, H. Khamm1, A. Swaroop1, W.W. Hauswirth1,2, S.G. Jacobson2, W.A. Beltran1,2. 'Clinical Studies, Univ of Penn Sch Veterinary Med, Philadelphia, PA; 'Dept of Ophthalmology, Scheie Eye Institute, Philadelphia, PA; 2Molecular Genetics & Microbio, 3Ophthalmology, 4University of Florida, Gainesville, FL; 5Ophthalmology, University of Massachusetts Medical School, Worcester, MA; 5N-NRL, Bldg 6, National Eye Institute, Bethesda, MD. *CR

5627 — 9:00 Rhodopsin Mutants Destabilize Rod Outer Segment Disk Membranes. Mohammad Haeri1,2, S.E. Reks1, B.E. Knox1. 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 Fakuda1,2, M. Nagano3, T. Yamashita3, K. Kimura4, K. Akimoto5, J. Tsuboi3, S. Ueno1, M. Kondo1,2, T. Oshika1, O. Ohneda4. 3Ophthalmology, 4Regenerative Medicine and Stem Cell Biology, 5Tsukuba University, Tsukuba, Japan; 6Ophthalmology, Nagoya Univ School of Med, Nagoya, Japan; 7Ophthalmology, Meie 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. Swaroop1,2, K. Jayasundera1, J.R. Heckenlively1. 1Ophthalmology and Visual Sciences, University of Michigan, Ann Arbor, MI; 2-N-NRL, Bldg 6, National Eye Institute, Bethesda, MD.

5630 — 9:45 CRB2 and CRB1 in Retinal Development and Maintenance. Celso H. Alves1, L. Pellissier2, B. Park3, A. Sunz Sanz4, S. Beck2, G. Huber2, N. Tanimoto5, M. Garrido6, F. Richard7, J. Wijnholds1. 1Neuromedical Genetics, Netherlands Inst for Neuroscience, Amsterdam, The Netherlands; 2Ocular Neurodegeneration Centre for Ophthalmology, Institute for Ophthalmic 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 Otani2, C. Guo2, A. Oishi2, N. Yoshimura2. 1Ophthalmology, Japanese Red Cross Wakayama Med Ctr, Wakayama, Japan; 2Ophthalmology, Kyoto University, Kyoto, Japan.

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**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. Yisuke Murakami1, H. Matsimoto1, M. Roh1, J. Suzuki1, K. Takeuchi1, D. Mantopoulos1, T. Hisatomi1, Y. Ikeda1, J.W. Miller1, D. Vavvas2. ‘Angiogenesis Laboratory, Massachusetts Eye and Ear Infirmary, Boston, MA; 3Ophthalmology, Kyushu University, Fukuoka, Japan. *CR
5632 — A28    Reported Decreases in Vision During and After Pregnancy in Women with Retinitis Pigmentosa. Pamela E. Jeter1, G. Dagnelie1, M. Khan1, A.K. Bittner2. 1Ophthalmology, Johns Hopkins University, Baltimore, MD; 2Civil Hospital Karachi, Karachi, Pakistan.


5634 — A30    Determining National Vision Health Priorities: Healthy People 2020 Vision Objectives. Axel Ryskulova1, R. Janiszewski2, 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. North1,2. 1Sch of Optom & Vision Sci, Cardi University, Cardiff, United Kingdom; 2Vision Aid Overseas, Crawley, United Kingdom.

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

5637 — A33    Direct Comparison of Current Pediatric Pseudoisochromatic Color Vision Tests in Preschool Children. Michele E. Mercer1, R.J. Adams1,2. 1Psychology, 2Psychology/Pediatrics, 1Memorial University, St John’s, NL, Canada.

5638 — A34    Danish Rural Eye Study (DRES): Preliminary Data on Visual Impairment in Randomly Selected Adults of Denmark. Tracy B. Hoeg1, B. Moldow2, H. Buch Hesgaard3, D. Erngaard4, K. Klemm3, M. La Cour1, C. Ellervik1. 1Ophthalmology, 2Clinical Biochemistry, 3Naestved Hospital, University of Copenhagen, Naestved, Denmark; 4Ophthalmology, Glostrup Hospital, Glostrup, Denmark.

5639 — A35    A Comparison of Visuocortical Function in Premature Infants with Grade I/II and Grade III/IV Intraventricular Hemorrhage. William V. Good1, C. Hou2, A. Norcia3,4. 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. Lamoureux3, J-J. Wang4, P. Mitchell1, N. Cheung5, T. Au6, S. Saw7, C. Cheng4. 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; 5School of Optometry and Vision Science, University of New South Wales, Sydney, Sydney, New South Wales, Australia.

5641 — A37    Epidemiology of Chinese Patients in the Ophthalmology Clinic of a New York City Public Hospital. See H. Wong1, L.G. Chen1, C.C. Teng1. 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 Diseases Study. Chitra K. Kariki1, S.K. Iyengar2, B. Truitt1, R.P. Igo, Jr1, E. Johnson3, L. Tinker4, K.J. Meyers1, J.A. Mares1. 1Ophthalmology and Visual Sciences, 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.

5643 — A39    Genetic Testing for Myotonic Dystrophy in Early-onset Cataract - 10 years data. Shiao Wei Wong, Ophthalmology, NHS, Aberdeen, United Kingdom.

5644 — A40    Heritability Of Ocular Biometry Parameters Using Structural Equation Modeling In A Study Of Angle-closure Glaucoma. Robert Wojciechowski1, P.Y. Ramula1, S. Kavitha2, P. Sundaresan1, R. Jayanthi3, D.S. Friedman1, R. Venkat1. 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. Simpson2, R. Wojciechowski1,2, C. Motter3, S. Szymczak4, D. Stambolian5. 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 AO SLO Image Sequence. Hiroshi Imamura1, P. Fletcher1, K. Nozato1, S. Ueda1, A. Uji1, N. Yoshimura1. 1Canon Inc, Tokyo, Japan; 2Canion Information Systems Research Australia, Sydney, Australia; 3Ophthalmology, Kyoto University Graduate School of Medicine, Kyoto City, Japan. *CR

5654 — A50 Characterization of Diabetic Retinopathy Lesions Using Adaptive Optics Scanning Laser Ophthalmoscopy, Sonja G. Prager1, S.H. Radwan1, H. Kwak1, P.S. Silva1, S.A. Burns1, L.P. Aiello1, J.K. Sun1. 1Beetham Eye Institute, Joslin Diabetes Center/Harvard Medical School, Boston, MA; 2Department of Ophthalmology and Optometry, Medical University Vienna, Vienna, Austria; 3Ophthalmology, Cairo University, Cairo, Egypt; 4School of Optometry, Indiana University, Bloomington, IN.

5655 — A51 Structural analysis of small vessels In The Human Retina : an adaptive optics study. Michel Pauques1, K. Nakashima1, F. Rossant1, J.A. Sahel1. 1Clinical Investigation Center 503, Quinze-Vingts Hospital, INSERM, Paris, France; 2iseP, Paris, France; 3UMR-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. Boccaalini1, S. Lioi1, M. Varano1. 1Ophthalmology, Fondazione GB Bietti-IRCCS, Rome, Italy; 2CNR-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. Akihito Uji1, M. Hangai1, S. Ooto1, T. Murakami1, N. Yoshimura1, H. Inamura1, K. Nozato1. 1Ophthalmology, Kyoto Univ Graduate Sch of Med, Kyoto City, Japan; 2Canon INC., Tokyo, Japan. *CR

5659 — A55 Adaptive Optics and SD OCT in Macular Telangiectasia Type 2. Alain Gaudric1, K. Nakashima1, V. Krivostic1, N. Chateau1, J.A. Sahel1. 1Ophthalmology, Lariboisiere Hospital University Paris 7, Paris, France; 2Ophthalmology, Clinical Investigation Center 503 Quinze-Vingts Hospital, INSERM, Paris, France; 3Imagine Eyes, Orsay, France; 4Ophthalmology, UMR-S 968 Institut de la Vision, Paris, France. *CR


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

5662 — A58 Foveal Microvasculature And Its Relationship To Retinal Thickness. Toco Y. Chai1, A.E. Elsner1, S.A. Burns1. 1Optometry, Indiana University, Bloomington, IN; 2School of Optometry, Indiana University, Bloomington, IN.

5663 — A59 Variations Of The Eye'S Image Optical Quality And The Sampling Limit Of Resolution Of The Cone Mosaic With Axial Length. Marco Lombardo1, S. Serra1, P. Ducoli1, G. Lombardo1. 1IRCCS Fondazione G.B. Bietti, Rome, Italy; 2CNR-IPCF Unit of Support Cosenza, LiCryL Laboratory, University of Calabria, Rende, Italy.

5664 — A60 Distribution of Outer Nuclear Layer Thickness in SDOCT Images. Joel A. Papay1, C.A. Clark1, T.Y. Choi1, L. Zhao1, A.E. Elsner1. Optometry, Indiana University, Bloomington, IN.

5665 — A61 Perifoveal Retinal Thickness and Temporal Contrast Sensitivity in Axial Myopia. Nancy J. Coletta1, Y. Pilz1, A. Ciepiela1. 1Vision Science, New England College of Optometry, Boston, MA; 2School of Optometry, University of California, Berkeley, CA.

5666 — A62 In vivo Imaging of Photoreceptor Loss Associated with Dry Age-Related Macular Degeneration Using Adaptive Optics Scanning Laser Ophthalmoscopy, Adam Boretsky1, J. Rha2. 1Optometry, Indiana University, Bloomington, IN; 2School of Optometry, Indiana University, Bloomington, IN.

5667 — A63 Adaptive Optics Scanning Laser Ophthalmoscopy With Amplitude Pupil Apodization. Isuofu N. Salas1, A. Dubra1,2. 1The Institute of Optics, 2Flaum Eye Institute, 3University of Rochester, Rochester, NY; 4Ophthalmology, 5Biophysics, Medical College of Wisconsin, 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. Dubra1,2, J. Carroll1,2, 2Biomedical Engineering, Marquette University, Milwaukee, WI; 4Ophthalmology, 5Cell Biology, Neurobiology & Anatomy, 6Biophysics, 7Medical College of Wisconsin, Milwaukee, WI. *CR


5671 — A67 Retinal Structure and Visual Function in Patients with Blue Cone Monochromatism. Xinda Lau1, A.V. Cideciyan1, A. Samarako1, S.B. Schwartz1, A.J. Romari1, J.B. Goldberg1, B. Baum1, B. Wissinger2, S. Koh1, S.G. Jacobsen1. 1Department of Ophthalmology, Scheie Eye Institute, Philadelphia, PA; 2Center for Ophthalmology, Institute for Ophthalmic Research, Molecular Genetics Laboratory, Tuebingen, Germany.

5672 — A68 Assessing the Relationship Between Cone Density and Foveal Morphology. Adam M. Dubis1, S.O. Hansen2, R.F. Cooper2, B.R. Hansen2, J. Carroll1,2. 1Cell Biology, Neurobiology and Anatomy, 2Ophthalmology, 3Medical College of Wisconsin, Wauwatosa, WI; 4Biomedical Engineering, Marquette University, Milwaukee, WI.

5673 — A69 Disrupted RPE and intact photoreceptors observed in vivo with Fluorescence Adaptive Optics Scanning Laser Ophthalmoscopy years following accidental laser exposures in humans. Jennifer J. Hunter1,2,3, E.A. Ross1, W. Fischer2, A. Dubra2,4, M.M. Chung1,2,3. 1Flaum Eye Institute, 2Center for Visual Science, 3University of Rochester, Rochester, NY; 4Ophthalmology, 5Biophysics, 6Medical College of Wisconsin, Milwaukee, WI.

5674 — A70 Measuring the Performance of an Adaptive Optics Flow 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 Albinopunctatus. Hongxin Song1, D.R. Williams1,2, L. Latchney1, A. Dubra1,2, M.M. Chung3,4. 1Center for Visual Science, 2Institute of Optics, 3Flaum Eye Institute, 4University of Rochester, Rochester, NY; 5Ophthalmology, Medical College of Wisconsin, Milwaukee, WI. *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 Awardees
Hall B/C  A99-A125

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

513 Clinical Electrophysiology and Retinal Disease

Moderator: Stefanie B Varghese

5676 — A72 Determinants Of Normal Human Cone Photoreceptor Density Measured By Adaptive Optics Scanning Laser Ophthalmoscope. Sang Pyo Park¹, J. Chung¹, F. Hirose¹, S.H. Tsang¹, S. Chang¹. ¹Department of Ophthalmology, Columbia university medical center, New York, NY; ²Department of Ophthalmology, Kangdong Sacred Heart Hospital, Seoul, Republic of Korea; ³Canon INC., Tokyo, Japan. *CR

5677 — A73 Spatially-resolved Adaptive Optics Photopigment Densitometry for Assessing Photoreceptor Function. Benjamin D. Masella¹, J.J. Hunter²,³, D.R. Williams³,¹. ¹The Institute of Optics, ²Center for Visual Science, ³Flaum Eye Institute, ¹University of Rochester, Rochester, NY. *CR


5679 — A75 Light Radiated from Myoids for Oblique Incidences upon Foveal Cones. Jean-Marie Gorrand¹, M. Doly². ¹Center for Medical Physics and Biomedical Engineering, ²Ophthalmology, Medical University of Vienna, Vienna, Austria.

5680 — A76 Extending The Field Of View In Adaptive Optics Scanning Laser Ophthalmoscopy. Franz Felberer³, J.S. Kroissamer³, C.K. Hitzenberger⁴, M. Pircher⁴. ³Center for Medical Physics and Biomedical Engineering, ⁴Ophthalmology, Medical University of Vienna, Vienna, Austria.

5681 — A77 Optics Design For Confocal Scanning Laser Ophthalmoscope. Chuohong Li¹, H. Chen¹, Y. Li², Z. Tang². ¹School of Ophthalmology and Optometry, Wenzhou Medical College, Wenzhou, China; ²Suzhou Microclear Instruments Co., Ltd, Suzhou, China.

5682 — A78 Spectral-domain Optical Coherence Tomography In Acute Macular Neoretnopathy. Imen Chitrou¹, V. Martinet¹, G. Azar¹, B. Wolff¹, P.-L. Cornut¹, J.-A. Sahel². ¹Fondation Ophthalmologique Adolphe de Rothschild, Paris, France; ²hospital Edouard Herriot, Lyon, France.

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

5684 — A99 Oscillatory Potential Contribution to the ERG: A New Mean to Identify Disease Onset. Natalka Trang¹, M. Gauvin¹, R. Koenekoop¹, J. Little¹, J.-M. Lina², P. Lachapelle¹. ¹Department of Ophthalmology, Neurology and Neurosurgery, McGill University-Montreal Children’s Hospital Research Institute, Montreal, QC, Canada; ²École de technologie supérieure, Montreal, QC, Canada.

5685 — A100 Topographic Mapping Of Functioning Cone And Rod System In Inherited Retinal Degenerations With Confirmed Gene Mutations. Ieva Sliosariute¹, E. Traeger¹, S. Kohl¹, B. Wisssinger¹, E. Zrenner¹. ¹Institute for Ophthalmic Research, University of Tuebingen, Tuebingen, Germany; ²Institute for Ophthalmic Research, Molecular Genetics Laboratory, Tuebingen, Germany; ³Molecular Genetics Laboratory, ⁴Institute for Ophthalmic Research, ⁵Centre for Ophthalmic Research, Tuebingen, Germany.

5686 — A101 Molecular Modeling of RS1 Structure Indicates Two Classes of Missense Variants With Mild and Severe XLRs Phenotypes. Yuri V. Sergeev¹,⁴, P.A. Sieving¹, A. Vincent¹, A.G. Robson¹, ³A.T. Moore¹, A.R. Webster¹, G.E. Holder¹. ¹OGYFB, ²National Eye Institute, Bethesda, MD; ³Electrophysiology, Moorfields Eye Hospital, London, United Kingdom; ⁴Institute of Ophthalmology, University College, London, United Kingdom.

5687 — A102 Retinal Function Assessed By Full-field ERG In Ranibizumab Treated Neovascular AMD Patients. Karen B. Pedersen¹, F. Moller¹, A. Sjolie¹, S. Andreassen¹. ¹Ophthalmology, Glostrup Hospital, Glostrup, Denmark; ²Ophthalmology, Odense University Hospital, Odense, Denmark; ³Ophthalmology, Lund University Hospital, Lund, Sweden.


5689 — A105 Discrete Wavelet Transform (DWT) Of The ERG More Accurately Predicts The End Stage Of Retinal Degenerative Disorders. Mathieu Gauvin¹, J Racine¹, D. Daloze¹, R. Koenekoop¹, J. Little¹, M. Hebert¹, J. Lina², P. Lachapelle¹. ¹Department of Ophthalmology, Neurology and Neurosurgery, McGill University - Montreal Children’s Hospital Research Institute, Montreal, QC, Canada; ²Electrical Engineering, École de Technologie Supérieure, Montreal, QC, Canada; ³Ophthalmology, Laval University - Centre de recherche Université Laval Robert-Giffard, Quebec, QC, Canada.


5692 — A107 Two New Mutations in RP11.1 Gene in Occult Macular Dystrophy Patients Associated with a Depolarizing Pattern of Focal Macular ERG. Shuhei Kameya¹, T. Kabuto¹, H. Takahashi¹, Y. Goto-Fukuura¹, T. Igarashi¹, K. Yamakii¹, A. Mizota¹, Y. Miyake¹, H. Takahashi¹. ¹Ophthalmology, Chiba Hokusoh Hosp Nippon Med Sch, Inzai, Japan; ²Ophthalmology, Nippon Medical School, Bunkyo-Ku, Japan; ³Ophthalmology, Teikyo University, Ibatiski-ku, Japan; ⁴Ophthalmology, National Institute of Sensory Organs, National Hospital Organization Tokyo Medical Center, Tokyo, Japan; ⁵Aichi Medical University, Aichi-gun, Japan.

5693 — A108 Cortical Impact of Genetic Retinal Degeneration of Ganglion Cell Origin and With Early Visual Loss. Catarina A. Mateus¹, A.A. Reis¹, J. Castelhano¹, E. Silva¹, M. Castelo-Branco¹. ¹Visual Neuroscience, IBILI-Faculty of Med-Univ of Coimbra, Coimbra, Portugal; ²Ophthalmology, University Hospital of Coimbra, Coimbra, Portugal.

5694 — A109 Phenotypic Characterization in Two Patients with Identified Rhodopsin Gene Mutation: Impact of Retinal Degeneration on Cortical Structure. Andreia C. Pereira¹, C. Mateus¹, A. Reis¹, B. Querender¹, S. Ferreira¹, M. Almeida¹, E. Silva¹, M. Castelo-Branco¹. ¹Visual Neuroscience Laboratory, IBILI-Faculty of Medicine-University of Coimbra, Coimbra, Portugal; ²Ophthalmology, University Hospital of Coimbra, Coimbra, Portugal; ³Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal.

5695 — A110 Environmental and Therapeutic Approaches to Limit the Consequences of Postnatal Hyperoxia. Allison L. Dorfman¹, B. Campanaro¹, K. Uy², A. Polosa³, M. Djavari², P. Wintemark², S. Chemtob³, P. Lachapelle¹. ¹Ophthalmology, ²Neonatology, ³McGill University/Montreal Children’s Hospital, Montreal, QC, Canada; ²Département de Sciences Biomédicales, Université de Montréal, Montreal, QC, Canada; ³Pediatrics & Pharmacology, Research Centre/Ste. Justine Hospital, Montreal, QC, Canada.

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

5697 — A112 Focal Macular Electrotinogram Elicited By Hemicircular Stimuli In Eyes With Branch Retinal Vein Occlusion. Shunsuke Yasuda1, S. Ueno1, C-H. Piao1, M. Kondo1, H. Terasaki1. 1Ophthalmology, Nagoya Univ Graduate Sch of Med, Nagoya, Japan; 2Ophthalmology, Univ Graduate Sch of Med, Tsu, Japan.


5699 — A114 Visual Impairment in Leber Hereditary Optic Neuropathy Carriers of the Same Pedigree. Aldina A. Reis1, C. Mateus1, E. Silva1, M. Castelo-Branco1. 1Visual Neuroscience Laboratory, IBLF-Faculty of Med-Univ of Coimbra, Coimbra, Portugal; 2Ophthalmology, University Hospital of Coimbra, Coimbra, Portugal.


5702 — A117 Effects of Nicotine on Flicker ERGs: Application of DFT and T-Circle. Stefanie B. Varghese1, N. Naser1, T.P. Than1, K.T. Keyser1, E. Hartmann1. 1Vision Science, 2Optometry, 3Univ of Alabama at Birmingham, Birmingham, AL.

5703 — A118 The Characteristics Of Cone-driven Oscillatory Potentials In Human Electrotinogram. Bo Lef1, H. Peng1, J. Yin1, Q. Li.1 1Ophthalmology, The First Affiliated Hospital of Chongqing Medical University, Chongqing, China; 2Ophthalmology, University of Florida, Gainesville, FL.


5705 — A120 Trichromatic And Dichromatic Electrotinograms Using A Chromatic-Achromatic Temporal Compound Stimulus. Neil R. Parry1, J.H. Murray1, A. Panourgias1, D.J. McKeefry1, B.B. Lee1, J.J. Kremers2. 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. Francis1, B. Marr1, D.H. Abrams1. 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, K.J. Quinn1, R.L. Robinson1, A.F. Taktak1, A.C. Fisher2. 1Department of Medical Physics & Clin Eng, Royal Liverpool Univ Hospital, Liverpool, United Kingdom; 2Clinical Eye Research Centre, Royal Liverpool University Hospital, Liverpool, United Kingdom.

5708 — A123 Generation of Steady State Pattern Electrotinograms Explained By Convolution of Transient Responses. Jonathan A. Toft-Nielsen1, J. Bohorquez1, V. Porciatti2, O. Ozdamar1. 1Biomedical Engineering, University of Miami, Miami, FL; 2Bascom Palmer Eye Inst, Univ of Miami Miller Sch Med, Miami, FL.

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

5710 — A125 Characterising Human L- and M-cone ERGs Using a Four Primary System. Declan J. McKeefry1, N.K. Challa1, J.J. Kremers1, N.R. Parry1. 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, B.V. Nagy1, A. Magyar1, A. Farkas1, J. Nemeth1. 1Department of Ophthalmology, 2Dept of Ophthalmology, Semmelweis University, Budapest, Hungary; 3Experimental Psychology, University of Sao Paulo, Sao Paulo, Brazil.

5712 — A127 The Limited Ability Of Neurons In Visual Area 2 (v2) To Integrate Contour Elements Over Extended Space In Infant Macaque Monkeys. Bin Zhang1, G. Shen1, X. Tao1, E.L. Smith1, J.M. Chino1. 1College of Optometry, Nova Southeastern University, Plantation, FL; 2College of Optometry, University of Houston, Houston, TX.


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, G.S. Souza1, T.L. Costi1, B.D. Gomes1, L.C. Silveira1, D.F. Ventura1. 1Departamento de Psicologia Experimental, Instituto de Psicologia, Sao Paulo, Brazil; 2Smith-Kettlewell Eye Research Institute, San Francisco, CA; 3Instituto de Ciencias Biologicas, Universidad Federal do Para, Belem, Brazil; 4Nucleo de Medicina Tropical, Universidad 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.


Hall B/C  A126-A139
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Visual Neurophysiology / Visual Psychophysics & Physiological Optics

514 Visual Cortex and Brainstem Visual Centers

Moderator: Ian D Meng


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

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


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

5724 — A139 Measuring the Spatial and Temporal Dynamics of Frontal Eye Field Receptive Fields. Matthew A. Smith1,2, J. Mayo1,2, M.A. Sommer1, A. DiTomasso1. 1Ophthalmology, #Center for Neuroscience, #University of Pittsburgh, Pittsburgh, PA; 2Neurobiology, Harvard Medical School, Boston, MA; #Dept. 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. Danielle Amanzi1, I. Ingster-Moati2, E. Albuission1, C. Girard1, B. Delbosc1. 1Department of Ophthalmology, Orleans Hospital, Orleans, France; 2Ophthalmology, University Paris 7 Diderot, Necker Hospital, Paris, France; 3Biostatistics Department, University of Medicine, Vandoeuvre-les-Nancy, France; 4Department of Ophthalmology, University Hospital, Besancon, France.

5726 — A141 Full-field Electoretinogram Changes In Patients In Therapy With Chloroquine And Hydroxychloroquine: Time And Dose Effect. Giulio Ruberto1, C. Tinelli1, P. Piccinni1, L. Bossolesi1, M. Raimondi1. 1Clinica Oculistica, 2Biometric Service, 1IRCCS Policlinico San Matteo, Pavia, Italy.

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

5728 — A143 Ganzfeld-electrotretinogram In Patients With Coronary Heart Disease. Katja Goebel1, A. Reffken2, H. Drexler2. 1Ophthalmology, Schloss Park Clinic, Berlin, Germany; 2Ophthalmology, Kardiology, Hannover Medical School, Hannover, Germany; 3Eye clinic, Wittenbergplatz, Berlin, Germany.

5729 — A144 Electrophysiology And Fluorescein And Indocyanine Green Angiography In Susac Syndrome. Julia M. Promesberger1, A.F. Alex1, I. Kleffner1, J-M. Dörö2, N. Eter1. 1Ophthalmology, 2University hospital of Muenster, Muenster, Germany; 3NeuroCure Clinical Research Center, Charité, University hospital of Berlin, Berlin, Germany.

5730 — A145 Flash Electoretinogram In Children With Mitochondrial Diseases. Frederic Nicolas, A. Bron1, C. Creuzot-Garcher1, F. Renaud2. 1Ophthalmology, CHU Dijon, Dijon, France; 2Neurophysiology Unit, Hôpital Armand Trousseau, Paris, France.

5731 — A146 Flicker Electoretinogram - Temporal Response Function In Children On Vigabatrin (VGB). Aparna Raghuram1, O. Kolawole1, R.M. Hansen2, A.B. Fulton3. 1Department of Ophthalmology, Childrens Hospital Boston, Boston, MA; 2Harvard Medical School, Boston, MA; 3Northeastern University, Boston, MA.

5732 — A147 Seizure Related Retinal Dysfunction Is Not Associated With Increased Risk Of Retinal Toxicity With Vigabatrin. Ananthavalli Kumarappah1, M.T. McFarlane2, T. Wright1, C. Westall3. 1Institute of Medical Sciences, University of Toronto, Toronto, ON, Canada; 2Ophthalmology and Vision Sciences, Hospital for Sick Children, Toronto, ON, Canada.*CR

5733 — A148 Electoretinogram Anomalies In Psychiatric Disorders: The Possible Implication Of GSK3. Joelle Lavoie1, J-M. Beaulieu1, M. Hebert2. 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. Antoñello Fadda1, A. Di Renzo1, F. Martelli2, M. Marangoni1, A. Batocchi1, D. 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. Zemón1, S.B. Varghese1, E.T. Keyser3, E. Hartmann1. 1Vision Science, 2Department of Optometry, 1University of Alabama at Birmingham, Birmingham, AL; 3Ferkau Grad School of Psychology, Yeshiva University, Bronx, NY.*CR

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

5738 – 5757 – Thursday – Posters

Hall B/C  A256-A271
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Clinical & Epidemiologic Research

516 Diabetic Retinopathy Epidemiology

**Moderator: Robin D Hamilton**

5738 — A256 Efficacy of Diabetic Retinopathy Screening for Patients Who Were at High-Risk for Threatening Retinopathy in a County Healthcare System. Glen Y. Ozawa1, T. Litvin1, J.A. Cuadros2, S. Ramaswamy3, M.S. Muller4, A.E. Elsner2, T.J. Gast1. 1UC Berkeley School of Optometry, Berkeley, CA; 2School of Optometry, Indiana University, Bloomington, IN; 3AION Imaging, LLC, Bloomington, IN. *CR


5740 — A258 Cognitive impairment (CI) does not correlate with severity of diabetic retinopathy (DR) in people with Type 2 Diabetes (T2D). Roxanne R. Crosby-Nwyba1, A. Forbes2, S. Sivaprasad3. 1King’s College London, London, United Kingdom; 2Ophthalmology, King’s College Hospital, London, London, United Kingdom.

5741 — A259 Diabetic Retinopathy Inpatient Study. Jessica J. Kovarik1, L.A. Willard2, E.L. Waznaw3. 1Ophthalmology, UPMC Eye Center, Eye and Ear Institute, University of Pittsburgh School of Medicine, Pittsburgh, PA; 2Medicine, UPMC Mercy Hospital, Pittsburgh, PA.

5742 — A260 How much does glycated hemoglobin A1c explain the risk of diabetic retinopathy in persons with type 2 diabetes? The Diabetes Management Project (DMP). Jing Xie1, S. Selvarajah1, R. Kawasaki2, T. Nicolaou2, S. Sammugasundram1, J. Wang3, T. Wong4, E. Lamooreaux5. 1Department of Ophthalmology, Centre for Eye Research Australia, East Melbourne, Australia; 2Department of Ophthalmology, Centre for Vision Research, Sydney, Australia; 3National University of Singapore, Singapore Eye Research Institute, Singapore, Singapore.

5743 — A261 Telemedicine-based Digital Retinal Imaging Improves Diabetic Retinopathy Screening Compliance. Seema Garg1, B. King2, P. Jani3, S. Weir4, T. Karnowski5, S. Li6, E. Chaum1. 1Dept of Ophthalmology, University of North Carolina, Chapel Hill, NC; 2Oak Ridge National Laboratory, Memphis, TN; 3Hamiton Eye Institute, University of Memphis, Memphis, TN. *CR


5746 — A264 An Edutainment Tool for Increased Compliance with DR Screening and Management, Part 2: Efficacy Study. Anne M. Edwards1, G. Zamora2, A. Matriella1, P. Soliz2. 1VisionQuest Biomedical LLC, Albuquerque, NM; 2The Fotonova Production Company, Santa Fe, NM. *CR


5748 — A266 Diabetes and Diabetic Retinopathy in an Australian Cardiac Population: the Australian Heart Eye Study. Adam J. Plant1,2, G. Bartltsky1, J. Chiha1, A. Thiagalingam1, P. Kooover1, 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, S.S. Hoffmann2, A. Green3, M. Nybo4, A. Spolje5. 1Ophthalmology, 2Centre for National Clinical Databases, South, 3Clinical Biochemistry and Pharmacology, 4Odense University Hospital, Odense, Denmark.

5750 — A268 Sight Impairment Certification Amongst Patients Attending Diabetic Retinopathy Screening in East London. Tunde Peto1, R. Bourkiza, M. Subash1, J. Da Costa1, D. Qatarneh1. 1Department of Ophthalmology, MOH - Doha, Q. 2Department of Ophthalmology, 1Hokkaido Univ Grad Sch of Med, 2Biostatistics, Jefferson School of Pharmacy, Philadelphia, PA. *CR

5751 — A269 Risk Factors for Prevalence, Incidence and Progression of Diabetic Retinopathy Among Non-insulin Dependent Diabetes in Taiwan. Shwa-Juan Sheu1,2, W-L. Ho1,3, J-Y. Lii1,3, N-C. Liu1,4, S-C. Chen1,4, Y-H. Hong1, H-C. Lam1,3. 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. Vaideanu1, S.S. Sandhu1. 1Sunderland Eye Infirmary, Sunderland, United Kingdom; 2Institute of Genetic Medicine, University of Newcastle, Newcastle Upon Tyne, United Kingdom; 3Medical Retina Unit, Centre for Eye Research Australia, Melbourne, Australia.

5753 — A271 Risk factors Associated with Progression from Nonproliferative to Proliferative Diabetic Retinopathy. Kristen H. Nwanyanwu1, N. Taiwar1,4, T.W. Gardner1,4, J.S. Wrobel1, J.D. Stein1,4. 1Ophthalmology and Visual Sciences; 2Internal Medicine, 1University of Michigan, Ann Arbor, MI.

Hall B/C  A272-A301
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Retinal Cell Biology / Retina

517 Vascular Mechanisms in Diabetic Retinopathy

**Moderator: Nader Sheibani**

5754 — A272 Fractal-Based Oscillation of Venous Density Within the Macula During Progression of Diabetic Retinopathy. Patricia A. Parsons-Wingerter1, K. Radhakrishnan1. 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, K. Noda1,2, W. Saito1,3, S. Ishida1,2. 1Department of Ophthalmology, 2Laboratory of Ocular Cell Biology & Visual Science, 3Hokkaido Univ Grad Sch of Med, Sapporo, Japan.

5756 — A274 Angiogenic and Vasculogenic Factors in the Vitreous from Patients with Proliferative Diabetic Retinopathy. Mohd I. Nawaz1, M.S. Ola1, M.M. Siddiqui1, K. Geboes1, A.A. El-Aar1. 1Ophthalmology, Kind Saud University, Riyadh, Saudi Arabia; 2Laboratory of Histochemistry and Cytchemistry, University of Leuven, Leuven, Belgium. *CR

Thursday – Posters – 5758 – 5781

359
Thursday Posters
8:30 am – 10:15 am

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. Ochoa; J. Trujillo. Clinica Ver Bien, Pereira, Risaralda, Colombia; *Clinica Ver Bien, Armenia, Quindio, Colombia.


5786 — A340 The Outcome of vitreotomy for chronic diabetic tractional retinal detachment. Muneca A. Abunajma1, H.N. Al-Shamsi2, H. Al-Dhibi1, N.G. Ghazii. Ophthalmology Residency Program, King Saud University, Riyadh, Saudi Arabia; *Vitreoretina, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia.

5787 — A341 Evaluation of Retinectomy in the Treatment of Severe Retinal Detachment. Thais S. Mender1, A.M. Gomez2, H.Y. Paxos3, A. Baptista1. Ophthalmology, Suel Abujama Institute, Sao Paulo, Brazil; *Ophthalmology, University of Sao Paulo, Sao Paulo, Brazil.


5791 — A345 Triamcinolone-Assisted Intraocular Limiting Membrane Peeling During Primary Rhegmatogenous Retinal Detachment Repair Reduces Postoperative Macular Pucker Formation. Rajesh C. Rao1, K.J. Blinder2, G.K. Shah3. Ophthalmology and Visual Sciences, Washington University School of Medicine, The retina Institute, Saint Louis, MO; *The 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. *St Paul’s Eye Unit, Royal Liverpool University Hospital, Liverpool, United Kingdom; ’The Eye Institute, The University of Hong Kong, Hong Kong.

5793 — A347 Air as Tamponade for Retinal Detachments. Aranzazu Mateo Montoya1, M.D. de Smet1. *Clinique de Montchoisi (Lausanne, Switzerland), Lausanne, Switzerland; *Ophthalmology, Clinique de Montchoisi, Lausanne, Switzerland.

5794 — A348 Extramacular-hole Drainage Of Subretinal Fluid In Macular Hole Retinal Detachment. J. Eun E. Lee, H. Jeon, I. Byon, S. Guttering also a Problem after Vitrectomy. Milad Hakimbash1, P. Amin1, A. Khatibi1, M.H. Goldbaum1. *Ophthalmology, Univ of California, San Diego, La Jolla, CA; *Ophthalmology, Univ of California-San Diego, La Jolla, CA.

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

5798 — A352 The Effect Of Retinal Detachment On Retinal Oxygenation. Alexander Kynhnel, I.III, S. Traustason1, J. Hajari1, J. Kiltgaard2, E. Stefansson, M. La cour3. Ophthalmology, Glostrup University Hospital, Glostrup, Denmark; *Department of Ophthalmology, Lundsativi University Hospital, Reykjavik, Iceland.


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.


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. Matsumoto1, E. Watanabe2, K. Shinoda2, H. Matsumoto3, T. Kondo3, A. Mizota2. 1Ophthalmology, Teikyo University School of Medicine, Tokyo, Japan; 2Ophthalmology, Teikyo University, Ibaraki-ku, Japan; 3Matsumoto Eye Clinic, Tokushima, Japan; 4Teikyo University, Tokyo, Japan; 5Ophthalmology, University Of West Verginia, Morgantown, WV.


5809 — A363 Prognosis Factors Of Rhegmatogenous Retinal Detachments Associated With Giant Tear. Mouin Benzerroug, B. Chanaoui1, O. Genevois1, G. Brassier2, E. Milazzo1, M. Maraine1. 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. Alshahrani1,4, S. Alrasheedi1, N.G. Ghazi1,6. 1Ophthalmology, Imam University Hospital, Amiens, France; 2Ophthalmology, Rouen University Hospital, Rouen, France.


5813 — A367 Use of Silicone Oil for Complex Retinal Detachment in Pediatric Population. Krishnapriya kalyan1, P. Emami1, D. Shali1, K. Gorakanti1, 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 Retina


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. Pocock1,2, J.W. Oliver1, C.A. Harber1, G.D. Noojin1, K.J. Schuster1, A. Shingledecker1, D.J. Stolarik1. 1Air Force Research Laboratory, Fort Sam Houston, TX; 2Biomedical Engineering, The University of Texas at Austin, Austin, TX.


5820 — A440 Laser Titration Algorithm For Minimally-traumatic, Sub-visible And Sub-lethal Retinal Phototherapies. Daniel Lavinsky1,2,3, S. Sramek2, Y. Mandel2,4,5, P. Huie2,4,6, D.J. Pulanker1,2,3. 1Ophthalmology, 2Hansen Experimental Physics Laboratory, 3Stanford University, Stanford, CA; 4Topcon Medical Laser Systems, Santa Clara, CA. "CR"

5821 — A441 Development Of A Simulated Model For Battlefield Retinal Laser Injury. Sher A. Aslam1, M. Singh1, P. Charbel Issa2, W. Davies1, M. McClements1, R. Scott2, R.E. MacLaren2. 1Nuffield Laboratory of Ophthalmology, University of Oxford, Oxford, United Kingdom; 2Royal Centre for Defence Medicine Institute of Research & Development, Birmingham, United Kingdom.


5823 — A443 Image Guided Navigated Retinal Laser Treatments Using Multiple Image Modalities. Igor Kozak1, J. Chhablani1, B. Barteselli1, D.U.G. Bartels1, W.R. Freeman1. 1Ophthalmology, University of California San Diego, La Jolla, CA; 2Ophthalmology, Shiley Eye Center, UCSF, 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 Arteriometry For Central Retinal Artery Occlusion (crao). Clayton Scanlon1, M. Currie1, A. Grant1, E.N. Cetin1, L. Akdaman1. 1Ophthalmology, Saint Louis University Eye Institute, Saint Louis, MO; 2Ophthalmology, Washington University, Saint Louis, MO. "CR"

5825 — A445 Effects of LMP7 Subunit Knockout Immunoproteasome on the Laser-Induced Chorioretinal Neovascular Model in Mice. Justin C. Kohl1, A.A. Ragle1, D.A. Ferrington1, S.R. Montezuma2. 1Ophthalmology, University of Minnesota, Minneapolis, MN.

5826 — A446 Impact of Endothelium-specific NFX-B Signaling on Choroidal Neovascularization. Sooja Zandi1, S. Nakao1, D. Sun1, R. Schmidt-Ullrich1, A. Schering1, A. Hafezi-Moghadam2. 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. Kame1, H. Kidoya2, H. Naito1, N. Matsunura1, M. Suzuki1, H. Sakaguchi1, N. Takakura2, K. Nishida1. 1Ophthalmology, Osaka University Graduate School of Medicine, Suita, Japan; 2Signal Transduction, Research Institute for Microbial Diseases, Osaka University, Suita, Japan.

*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
5828 — A448  Implication of GPs4 in Choroidal Neovascularization. Murilo F. Roggič, T. Ueta1, I. Hiorotaka1, T. Inoue1, Y. Tamaki1, Y. Yaguchi1. 1Ophthalmology, University of Tokyo, Tokyo, Japan; 2Pharmaceutical Sciences, Kitasato University, Tokyo, Japan.

5829 — A449  Different Mechanisms in Regulation of Laser Induced CNV by Arresten. Sudhakar A. Yakkanti1, V. Gunda2, R.K. Verma2, C.S. Boosani1. 1‘Genetics’ Retinal Cell Signaling, Boys Town Natl Res Hospital, Omaha, NE; 2‘Genetics, Boys Town N’1 Research Hosp, Omaha, NE.

5830 — A450  Topical NPD1 Promotes Microglia Ramiﬁcation in Experimental CNV. Kristopher G. Sheets1A, W.C. Gordon1B, N.G. Das1, H. Uehara1, N. Singh1, T. Miya1, B. Archer1, I. Hirotaka2, T. Inoue1, Y. Tamaki1, Y. Yanagi1. 1Boys Town National Research Hospital, Omaha, NE; 2Genetics, Infirmary and Harvard Medical School, Boston, MA.

5831 — A451  Selective Cre/lox Flt-1 Ablation In RPE Induces CNV: A Novel Transgenic Murine CNV Model. Ling Lau1*, T. Olsen1, X. Zhang1, S. Das1, H. Uehara1, N. Singh1, T. Miya1, B. Archer1, Y.Z. Le1, B.K. Ambati1. 1Moran Eye Center, Salt Lake City, UT; 2Department of Ophthalmology, The 306th Hospital of PLA, Beijing, China; 3Department of Medicine and Harold Hamm Oklahoma Diabetes Center, University of Oklahoma Health Sciences Center, Oklahoma City, OK.


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

5836 — A456  Functional Recovery After Experimental RPE Debridement, mERG Studies in a Porcine Model. Jens F. Killela1, N. Surenser1, M.V. Kybör2, L. Lassot1, J.U. Prusse1, M.D. de la Cour1. 1Dept of Ophthalmology, Rigshospitalet, Copenhagen, Denmark; 2Dept of Ophthalmology, Glotrup Copenhagen Univ. Hospital, Glotrup, Denmark; 3Eye Pathology Inst, Copenhagen University, Copenhagen, Denmark.

5837 — A457  RPE Tears: an in silico Perspective. Garth G. Whelan, A. Shirinifard, J.A. Glazier. Physics, Biochemistry Institute, Bloomberg, IN.

5838 — A458  Transplantation of Human ESC-derived RPE into Rodent Models of Retinal Degeneration. Madalena Carido1, Y. Zhu1, K. Benkner2, T. Kurth1, T. Munch1, E. Tanaka1, M. Ader1. 1Center for Regenerative Therapies Dresden, Dresden, Germany; 2Werner Reichardt Center for Integrative Neuroscience, Tübingen, Germany.

5839 — A459  Transplantation of Human Embryonic Stem Cell-Derived Retinal Cells into the Subretinal Space of a Non-Human Primate. Jennifer R. Chauer1, D.A. Lamba2, T. Klesert1, K. Sternhagen1, R. Taylor1A, A. Yanagida1, M. Neitz1, E. Tanaka1, M. Ader1. 1Ophthalmic, 2Bioengineering, 3Dept of Biological Structure, 4University of Washington, Seattle, WA; 5Buck Institute for Research on Aging, Novato, CA; 6Ophthalmology, Univ of Washington, Medical School, Seattle, WA. *CR

5840 — A460  Characteristics Of Rat Iris Pigment Epithelial Cells Cultured On Modified Expanded-polytetrafluoroethylene (ePTFE) Substrates. Shen Nian1, C.M. Sheridan2, V. Kearns2, R. Williams2, D. Wong2, K. Yasilev1, A. Bachluwa1, A.C. Lo2,3, W.W. Lau1,2. 1Eye Institute, 2Research Centre of Heart, Brain, Hormone and Healthy Aging, 3University of Hong Kong, Hong Kong, Hong Kong; 4Eye and Vision Science, University of Liverpool, Liverpool, United Kingdom; 5Mawson Institute and School of Advanced Manufacturing, University of South Australia, Mawson Lakes, Australia.


5845 — A465  Correlation Of The Detection Of Blood Flow In An RPE-choroidal Graft With Phase-resolved Doppler OFDI, With The Revascularization Steps Found On SD-OCT. Elsbeth J. Van Zeeburg1, B. Braaf, M.G. Cereda1, J.C. van Meurs1, J.F. de Boer1. 1The Rotterdam Eye Hospital, Rotterdam, The Netherlands; 2Rotterdam Ophthalmic Institute, Rotterdam, The Netherlands; 3Erasmus MC, University Medical Center, Rotterdam, The Netherlands; 4Institute for Lasers, Life and Biophotonics Amsterdam, Department of Physics and Astronomy, VU University, Amsterdam, The Netherlands. *CR

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

5847 — A467  Efficient Transfection and Genomic Integration of the PEDF Gene into a Limited Number of Primary IPE Cells. Gabriele Thomann, 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. Manendeep S. Singh1, E.J. Lee, H.E. Jones2, B. Ahmed3, I.M. Andolina4, P.M. Munro5, K.L. Grieve6, G.W. Aylward7, A.M. Sillito8, R.E. MacLaren9. 1University of Oxford & Oxford Eye Hospital NHRI Biomedical Research Centre, Oxford, United Kingdom; 2Rotterdam Eye Hospital, Rotterdam, The Netherlands; 3Mawson Institute and School of Advanced Manufacturing, University of South Australia, Mawson Lakes, Australia.

*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
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. Jeal2, I. Yun1. 1Ophthalmology, Haeundae Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea; 2Ophthalmology, 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, Z. Teitelbaum3,4, W.W. Furuhashi1. 1Ophthalmology, Yokkaichi Municipal Hospital, Yokkaichi, Japan; 2Children's Eye Care for Metabolomics, 1The Scripps Research Institute, La Jolla, CA; 3Ophthalmology, The Southwest, Dallas, TX; 4Crouse Hospital, Syracuse, NY; 5Retina, Assoc para Evitar la Ceguera en Mexico, Mexico, Mexico; 6Retina, Asociacion Para Evitar la Ceguera, Mexico, Mexico. ▶

5853 — A473 Long-term Follow-Up of the Adults With Retinopathy of Prematurity Who Received Photocoagulation And Cryopexy Treatments. Hiroki Kaneko1,2, T. Fujikawa2, R. Furuhashi1. 1Ophthalmology, Yokkaichi Municipal Hospital, Yokkaichi, Japan; 2Departments of Ophthalmology, 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; 3Ophthalmology, University of Texas Southwestern Medical Center, Dallas, TX. ▶

5855 — A475 Anti-vegf In Rop Treatment - 5.5 Years Of Experience. Susana M. teixeira1,2, C.M. Santos1,2, F.C. Silva1, G. Pires2, R. Barros2. 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. Schoonenwold, J.J. Fromow-Guerra1, V. Morales-Canton1, G. Garcia-Aguire1, H. Quirao-Mercado2, M.A. Martinez-Castellanos2. 1Retina, Asoc Para Evitar la Ceguera en Mexico, Mexico City, Mexico; 2Retina, Asoc Para Evitar la Ceguera en Mexico, Mexico City, Mexico; 3Retina, Assoc Para Evitar la Ceguera en Mexico, Mexico, Mexico. ▶

5858 — A478 Structural Outcome of Intravitreal Injection of Bevacizumab for Type I ROP Compared to Conventional Laser Treatment. Antonio Baldascino1, D. Lepore1, F. Molle1, P. Papacci1, C. Giannantonio1, V. Porcaro1, L. Orazi1, P. Perrini1, A. Molisso1, C. Romagnoli1. 1Ophthalmology, Denver Health Medical Center, Denver, CO; 2Retina and Vitreous, Asociacion Para Evitar la Ceguera, Mexico, Mexico. ▶

5859 — A479 Evaluation of the Effects of Intravitreal Injection of Bevacizumab on Controlateral Eye Treated with Conventional Laser Photocoagulation. Fernando Molle1, D. Lepore1, A. Baldascino1, P. Perrini1, L. Orazi1, M.M. Pagliara1, V. Porcaro1, C. Giannantonio1, P. Papacci1, C. Romagnoli1. 1Ophthalmology, 2Pediatrics, 3Catholic University of the Sacred Heart, Rome, Italy. ▶


5861 — A481 Fluorescein angiographic findings in spontaneously-regressing stage 1 or 2 retinopathy of prematurity. Andrea Portilla Demichelis1, F. Schoonenwold, M.F. Chiang2, R. Bolle3, H. Winninghoff2, J. Hernandez-Vargas2, V. Morales-Canton1, M. Martinez Castellanos1, A.I. Ortiz1. 1Asociacion Para Evitar la Ceguera en Mexico, IAP, Col. Barrio San Lucas, Coyoacan, Mexico; 2Retina, Asoc 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 Schoonenwold1, V.E. Giordano1, V. Morales-Canton1, R.V. Chat2, H. Quirao-Mercado2, M.A. Martinez-Castellanos2. 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 en Mexico, Distrito Federal, Mexico; 4Retina, Asoc Para Evitar la Ceguera, Mexico, Mexico; 5Ophthalmology, Well Cornell Medical College, New York, NY; 6Ophthalmology, Denver Health Medical Center, Denver, CO; 7Retina 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. Scuderi1, A. Longo1, L.M. Franco2, A. Russo2, F. Munno2, V. Villari2, A. Cantavenera1, M. Reibaldi1. 1Ophthalmology, University of Catania, Catania, Italy; 2Institute for Physical and Chemical Processes, CNR-IPCF, Messina, Italy. ▶

5865 — A485 Plus Disease Diagnosis in Retinopathy of Prematurity: Vascular Tortuosity as a Function of Distance from Optic Disc. Annie Mary Mathew1,2,2B, M. Friedlander1A. 1Ophthalmology, 2Pediatrics, 3Retina, Associate’s Eye Care of Metabolomics, 1The Scripps Research Institute, La Jolla, CA. ▶

5866 — A486 Aggressive posterior retinopathy of prematurity: Quantitative analysis of vascular features. Rony Woo1, R.V. Chan2, M. Martinez-Perez1, M.F. Chiang2. 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. ▶
5874 — A494 Description Of A Technique To Make Stereo Ocular Images And Retina Angiograms Using The Retcam II In Pediatric Patients. Victoria Gonzalez’, F. Schooneveld*, V. Morales-Cantor’, M.A. Martinez-Castellanos’. ‘Ophthalmology, Asociacion Para Evitar la Ceguera, Mexico, D.F., Mexico; ‘Retina, Asoc Para Evitar la Ceguera en Mexico, Mexico, Mexico; ‘Retina, Asoc para Evitar la Ceguera, Mexico, Mexico; ‘Retina and Vitreous, Asociacion Para Evitar la Ceguera, Mexico, Mexico.


5883 — A503 Genetic Deletion or Pharmacological Inhibition of Aldose Reductase Protects the Retina in a Mouse Model of Ischemia-induced Retinopathy. Zhongjie Fu’, S.Y. Li’, S. Chung’, D. Wong’, A.C. Lo’, A. Eye Institute, ‘Anatomy, ‘Research Center of Heart, Brain, Hormone and Healthy Aging, ‘The 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.


5888 — A508 Decreased IGF1 Expression Associated with Avascular Retina in Model of Retinopathy of Prematurity. Jianchao Jiang1, B. Numpang2, B. Yu1, H. Wang3, G. Smithi, M. McCloskey3, S. Patel4, R. DiGeromino5, M. Harnett6, 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. Sitara1,2, D. Hamel1, A. Madaan1, J-C. Honore1, B. Noueheid1, M. Blais2, C. Quiniou2, P. Sapieha2, S. Chemtob1,2. 1Pediatrics, Ophthalmology, Hopital Sainte-Justine/Montreal University, Montreal, QC, Canada; 2Ophthalmology, Maisonneuve-Rosemont Hospital, Montreal, QC, Canada.

5890 — A510 A Novel Model Of Retinopathy In Normobaric Hyperoxic Conditions With Fewer Oxygen Supply In The Rat. Umut Karaçal1, T. Ozgur2as, A.H. Durukani3, F.N. Aydin4, M. Ozler5, S. Tekin6, E.U. Bagriacik7. 1Ophthalmology, Isparta Military Hospital, Isparta, Turkey; 2Biochemistry, 3Ophthalmology, 4Physiology, 5School of Medicine, 6Gulhane Military Medical Academy, Ankara, Turkey; 7Immunology, Gazi University, Ankara, Turkey.

5891 — A511 Nitric Oxide and Signal Loss in the “ROP Rat” Retina. Tara L. Fava’zaz, De’Vallie, N. Zhang6, R.M. Hansen6, A.B. Fulton1, W.D. Eldred2, J.D. Akula6. 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.G. Fava’zaz, A. Bagliari1, A.B. Fulton1, R.M. Hansen6, P.M. Ivonne1, J.D. Akula6. 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 Otteson and Valeria Canto Soler

5893 — A572 Gene Expression and Immunogenicity of induced Pluripotent Stem Cell-Derived Retinal Pigment Epithelial Cells. Hiroshi Kamo2, M. Mandai1, A. Suga1, J. Kiyri1, M. Tahashi1. 1Laboratory for Retinal Regeneration, RIKEN Ctr for Dvlpmnt Biology, Kobe, Japan; 2Ophthalmology, Kawasaki medical school, Okayama, Japan.

5894 — A573 Manipulation Of Gene Expression In Orbital Adipose-derived Mesenchymal Stem Cells From Retinoblastoma Patients Using Lentiviral Vectors. David M. Wu1, J. Apparicio2, A. DiConti3, T.C. Lee1. 1Doheny 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.

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. Avraham Lubin1, T. Sadikov2, N. Askenasy2, N. Goldenberg Cohen2. 1The Krieger Eye Research, Sackler Faculty of Medicine, Tel Aviv University, Petch Tikva, Israel; 2Frankel Laboratory, Center for Stem Cell Research, Petch Tikva, Israel; Department of Pediatric Ophthalmology, Schneider Children’s Medical Center of Israel, Petch Tikva, Israel.


5897 — A576 Optimizing Retinal Progenitor Differentiation of hESC - Effect of RPE Co-Culture. Magdalene J. Seiler1, D. Ferguson1, G. Lecaude, I. Mathivanan, S. Wolf, V. Enzmann. 1The Krieger Eye Research, Sackler Faculty of Medicine, Tel Aviv University, Petach Tikva, Israel; 2Center for Regenerative Biology and Medicine, Department of Medical and Molecular Genetics, Indiana University Stark Neurosciences Research Institute, Indianapolis, IN.

5898 — A577 Growth and Organization of Human iPS Cell-Derived Retinal Cell Types on a Biocompatible Membrane. Jessica M. Martin1, J. Phillips1, L.S. Wright1, B. Pattnaik1, D.M. Gamm1. 1University of Wisconsin - Madison, Madison, WI; 2Cook Biotech, West Lafayette, IN; 3University of Louisville, Louisville, KY.

5899 — A578 Enhanced Progenitor Cell Integration and Differentiation Following Transplantation on to PLGA Polymer Conjugate. Brandon M. Menke1, V.B. Joshi2, A. Wongkrapanich3, K.R. Anfinson1, M.R. Streb1, M.E. Eyeston2, A.K. Salem1, B.A. Tucker1. 1Ophthalmology, 2Pharmacy, 3University of Iowa, Iowa City, IA.


5901 — A580 Characterization Of Human Retinal Progenitor Cells. Petr Y. Baranov1, G.B. Melo1, N.J. Young2. 1Schepens Eye Research Institute, Boston, MA; 2Ophthalmology, Federal Univ of Sao Paulo/UNIFESP, Araquari, 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. Lecaude, I. Mathivanan, S. Wolf, V. Enzmann. 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. Johnson2, H-C.H. Wang3. 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. Steward1, M. Gupta, J.S. Meyer2. 1Biology, Indiana Univ Purdue Univ Indianapolis, Indianapolis, IN; 2Center for Regenerative Biology and Medicine, Department of Medical and Molecular Genetics, Indiana University Stark Neurosciences 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. Lako2. 1Institute of Genetic Medicine, 2School of Neurology, Neurobiology and Psychiatry, ‘University of Newcastle Upon Tyne, Newcastle, United Kingdom; 3Sunderland Eye Infirmery, Sunderland, United Kingdom.

5906 — A585 Functional Comparison Of RPE Cultures Expanded From Differentiated Human iPSC Cells And Prematal Eye Tissue. Ruchira Singh1, W. Shen1, X. Guo1, T.P. Perez1, D. Kuai1, L.S. Wright1, B. Pattmak1, D.M. Gamm1. 1Waismann Center, 2Depts 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. Hongisto1, H. Vaajasaari2, S. Narkilahti1, R. Suuronen1, T. Ilumarinen1, H. Skottman2. 1University of Tampere, Institute of Biomedical Technology, Tampere, Finland; 2Institute of Biosciences and Medical Technology, Tampere, Finland; 3Tampere University Hospital, Department of Eye, Ear and Oral Diseases, Tampere, Finland.

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

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<td>Characterization Of Human Induced Pluripotent Stem Cells Derived Neural Progenitor Cells. Wei Kong&lt;sup&gt;1&lt;/sup&gt;, N. Yang, X. Li&lt;sup&gt;2&lt;/sup&gt;.</td>
<td>*Ophthalmology, the Fourth People’s Hospital of Shenyang City, Shenyang, China; *Ophthalmology, the 4th Affiliated Hospital of China Medical University, Shenyang, China.</td>
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<td>A589</td>
<td>Progenitor Cells. Induced Pluripotent Stem Cells Derived Neural Progenitor Cells. Wei Kong&lt;sup&gt;1&lt;/sup&gt;, N. Yang, X. Li&lt;sup&gt;2&lt;/sup&gt;.</td>
<td>*Ophthalmology, the Fourth People’s Hospital of Shenyang City, Shenyang, China; *Ophthalmology, the 4th Affiliated Hospital of China Medical University, Shenyang, China.</td>
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<td>Directing Virus-free Human Induced Pluripotent Stem Cells To Differentiate Into Retinal Cells. Xuifeng Zhong&lt;sup&gt;1&lt;/sup&gt;, C. Hampton&lt;sup&gt;1&lt;/sup&gt;, T. Park&lt;sup&gt;1&lt;/sup&gt;, D.M. Gamm&lt;sup&gt;1&lt;/sup&gt;, E. Zamhidi&lt;sup&gt;1&lt;/sup&gt;, V. Canto-Soler&lt;sup&gt;1&lt;/sup&gt;.</td>
<td>*Wilmeter Eye Inst, Johns Hopkins Univ Sch, Baltimore, MD; *Institute for Cell Engineering, Johns Hopkins Univ Sch, Baltimore, MD; *Stem Cell Research Program at Waisman Center and Ophthalmology and Visual Sciences, University of Wisconsin-Madison, Madison, WI.</td>
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<td>A591</td>
<td>BDNF and DNA Demethylation Increase Expression of Pluripotent and Retinal Neuronal Genes in ImM10 Müller Glia-Derived Retinal Stem Cells. Deborah C. Ottesen&lt;sup&gt;1&lt;/sup&gt;, J. Phillips&lt;sup&gt;1&lt;/sup&gt;, T.D. Petkova&lt;sup&gt;1&lt;/sup&gt;.</td>
<td>*Optometry, University of Houston, Houston, TX; *University of Wisconsin, Madison, WI.</td>
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<td>A592</td>
<td>Transcriptomic Comparison of RPE Derived from Two Human Embryonic Stem Cell Lines with Human Fetal RPE. Lawrence J. Rizzolo&lt;sup&gt;1&lt;/sup&gt;, G. Gan&lt;sup&gt;1&lt;/sup&gt;, S. Peng&lt;sup&gt;1&lt;/sup&gt;, T.A. Van Zyl&lt;sup&gt;1&lt;/sup&gt;, L.S. Edirwickrema&lt;sup&gt;1&lt;/sup&gt;, H. An&lt;sup&gt;1&lt;/sup&gt;, M. Zhong&lt;sup&gt;1&lt;/sup&gt;, C. Qiu&lt;sup&gt;1&lt;/sup&gt;, R.A. Adelman&lt;sup&gt;1&lt;/sup&gt;.</td>
<td>*Surgery/Ophthalmology, *Cell Biology, *Ophthalmology, *Yale Univ Sch of Med, New Haven, CT; *Ophthalmology, 2nd Hospital of Harbin Medical University, Harbin, China.</td>
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<td>A593</td>
<td>Retinal Differentiation Of Human Es Cells Maintained In Chemically Defined, Xeno-free E8 Culture Medium. Kyle Wallace&lt;sup&gt;1&lt;/sup&gt;, A. Gerner&lt;sup&gt;1&lt;/sup&gt;, J. Martin&lt;sup&gt;1&lt;/sup&gt;, Z. Hou&lt;sup&gt;1&lt;/sup&gt;, D.M. Gamm&lt;sup&gt;1&lt;/sup&gt;.</td>
<td>*Waisman Center, University of Wisconsin, Madison, WI; *Waisman Center, Department of Ophthalmology, Eye Research Institute, *University of Wisconsin Madison, Madison, WI; *Morgridge Institute for Research, Madison, WI.</td>
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<td>Microparticles in Differentiation of Retinal Pigment Epithelial Cells from Human Pluripotent Stem Cells. Anni E. Sorkio&lt;sup&gt;1&lt;/sup&gt;, T.H. Ilmarinen&lt;sup&gt;1&lt;/sup&gt;, J.S. Loo&lt;sup&gt;1&lt;/sup&gt;, H.T. Skottman&lt;sup&gt;1&lt;/sup&gt;.</td>
<td>*Institute of Biomedical Technology, University of Tampere, Tampere, Finland; *Institute of Biosciences and Medical Technology, Tampere, Finland; *School of Materials Science and Engineering, Nanyang Technological University, Singapore, Singapore.</td>
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<td>A595</td>
<td>Transfection of IGF-1 and IGFBP-1 in Neuronal Progenitor Cells from Human Persistent Fetal Vascular for Neuroprotection. Jie Ma&lt;sup&gt;1&lt;/sup&gt;, C. Guo&lt;sup&gt;1&lt;/sup&gt;, G. Chen&lt;sup&gt;1&lt;/sup&gt;, D. Cyn&lt;sup&gt;1&lt;/sup&gt;, K. Laskhari&lt;sup&gt;1&lt;/sup&gt;, 1Schepens Eye Research Institute, Boston, MA; *The Second Xiangya Hospital, Central South University, Changsha, China; *Massachusetts Eye &amp; Ear Infirmary, Boston, MA.</td>
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<td>Evaluation of Matrigel Degradation by MMP Secretion of hESC-RPE. Kenrick Kuuahara&lt;sup&gt;1&lt;/sup&gt;, D. Zhu&lt;sup&gt;1&lt;/sup&gt;, M. Humayan&lt;sup&gt;1&lt;/sup&gt;, D. Hinton&lt;sup&gt;1&lt;/sup&gt;, A.K. Ahuja.</td>
<td>*Doheny Eye Institute, Los Angeles, CA.</td>
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<td>Effects Of Clinically Relevant Agents On Human Retinal Progenitor Cells (hRpcs) In Culture: A Pre-clinical Cytotoxicity Study. Jing Yang, H. Klassen.</td>
<td>*Gavin Herbert Eye Institute, Department of Ophthalmology, University of Irvine, Irvine, CA.</td>
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<td>Evaluation of hESC-Derived Retinal Pigment Epithelial Cells Cultured as a Monolayer on Polymer Substrate Transplanted in RCS Rats. Padmaja B. Thomas&lt;sup&gt;1&lt;/sup&gt;, B.B. Thomas&lt;sup&gt;1&lt;/sup&gt;, L. Liu&lt;sup&gt;1&lt;/sup&gt;, Y. Hu&lt;sup&gt;1&lt;/sup&gt;, D. Zhu&lt;sup&gt;1&lt;/sup&gt;, E. Barron&lt;sup&gt;1&lt;/sup&gt;, D.O. Clegg&lt;sup&gt;1&lt;/sup&gt;, D.R. Hinton&lt;sup&gt;1&lt;/sup&gt;, M.S. Humayan&lt;sup&gt;1&lt;/sup&gt;.</td>
<td>*Ophthalmology, *Doheny Eye Institute-USC, Los Angeles, CA; *Cell and Neurobiology, University of Southern California, Los Angeles, CA; *Ophthalmology, Chang Gung Memorial Hospital, Taoyuan, Taiwan; *Ophthalmology, Peking University Third Hospital, Beijing, China; *Pathology/Doheny Eye Inst, Univ of Southern California, Los Angeles, CA; *Bioscience II, Center for Stem Cell Biology and Engineering- UCSB, Santa Barbara, CA; *Pathology, Keck School of Medicine USC, Los Angeles, CA; *Ophthalmology, Doheny Eye Institute - USC, Los Angeles, CA.</td>
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<td>A601</td>
<td>Embryonic Stem Cell Derived Retinal Pigment Epithelium Stem Cell Transplant: Survival And Lack Of Tumor Formation In Athymic Nude Rats. Bruno Diniz, S. Ribeiro, R. Brant, Y. Hu&lt;sup&gt;2&lt;/sup&gt;, L. Liu&lt;sup&gt;1&lt;/sup&gt;, P. Thomas&lt;sup&gt;1&lt;/sup&gt;, B. Thomas&lt;sup&gt;1&lt;/sup&gt;, D. Hinton&lt;sup&gt;1&lt;/sup&gt;, M. Humayan&lt;sup&gt;1&lt;/sup&gt;.</td>
<td>*Doheny Eye Institute, University of Southern California, Los Angeles, CA; *Ophthalmology, Universidade Federal de São Paulo, São Paulo, Brazil; *Department of Ophthalmology, Peking University Third Hospital, Beijing, China; *Keck School of Medicine, Los Angeles, CA.</td>
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<td>A602</td>
<td>Comparison Of Barrier Properties of RPE Derived from Two Human Embryonic Stem Cell Lines to the Properties of Human Fetal RPE. Shaoin Peng&lt;sup&gt;1&lt;/sup&gt;, G. Gan&lt;sup&gt;1&lt;/sup&gt;, C. Qiu&lt;sup&gt;1&lt;/sup&gt;, L. Li&lt;sup&gt;2&lt;/sup&gt;, R.A. Adelman&lt;sup&gt;1&lt;/sup&gt;, L.J. Rizzo&lt;sup&gt;1&lt;/sup&gt;.</td>
<td>*Surgery/Ophthalmology, *Cell biology, *Ophthalmology, *Yale University, New Haven, CT; *Ophthalmology, 2nd Hospital of Harbin Medical University, Harbin, China.</td>
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<td>A603</td>
<td>Polarized Human Embryonic Stem-Celled RPE Maintains its Monolayer Integrity and Function after Long-term in vitro Culture. Dunhong Zhu&lt;sup&gt;1&lt;/sup&gt;, D.O. Clegg&lt;sup&gt;2&lt;/sup&gt;, D.R. Hinton&lt;sup&gt;1&lt;/sup&gt;.</td>
<td>*Doheny Eye Institute/Pathology, Univ of Southern California, Los Angeles, CA; *Bioscience II, Univ of California-Santa Barbara, Santa Barbara, CA; *Pathology, Keck School of Medicine USC, Los Angeles, CA.</td>
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<td>A605</td>
<td>Injury of the Adult Zebrafish Retina Induces Expression of Purinergic Receptors and Ecto-nucleotidases that Control In Vivo Cell Proliferation. Ariadna G. Battista&lt;sup&gt;1&lt;/sup&gt;, M.P. Faillace&lt;sup&gt;1&lt;/sup&gt;.</td>
<td>*Laboratorio de Neurociencias, Piso 7, Universidade de Buenos Aires Facultad de Medicina, Buenos Aires, Argentina; *Instituto de Quimica y Fisicoquimica Biologicas (IQUIFIB), Buenos Aires, Argentina.</td>
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<td>A606</td>
<td>HB-EGF is a Master Regulator of Müller Glia Dedifferentiation and Retina Regeneration. Jin Wan, D.J. Goldman.</td>
<td>*Molecular &amp; Behav Neurosc Inst, University of Michigan, Ann Arbor, MI.</td>
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Thursday – Posters – 5928 – 5952

8:30 am – 10:15 am

Thursday Posters

Hall B/C  A153-A207

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

Glucoma / Clinical & Epidemiologic Research

522 Surgery and Lasers

Moderators: Robert D Fechtner and Colm J O’Brien

5928 – A153  Long-term Efficacy of Endoscopic Cyclophotocoagulation Combined with Cataract Surgery. Carter N. Kirk1, T.Q. Kirk2, S.H. Kirk3. 1Georgetown University School of Medicine, Washington, DC; 2Ophthalmology, Allegheny General Hospital, Pittsburgh, PA; 3Ophthalmology, Kirk Eye Center, River Forest, IL.

5929 – A154  Trabecu™ Outcomes in Patients of African Decent. H.T. Inoue1, K. Iwao4, H. Tanihara1. 1UMDNJ/ Bucknell University of Medicine, New Haven, CT; 2Department of Ophthalmology, Howard University, Washington, DC; 3Ophthalmology, Howard University Hospital, Washington, DC.


5931 – A156  Trabecu™ Results In Eyes With Low Preoperative IOP. Xuejing Chen, K. R. Fechtner2, N. Bhagat2. 1UMDNJ/ Bucknell University of Medicine, New Haven, CT; 2Ophthalmology, University of Erlangen Nurnberg, Erlangen, Germany.

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. Emami-Naeimi2, A. Kolomeyer1, M. Zarbin1, R. Fetchner2, N. Bhagat2. 1UMDNJ/ Bucknell University, Florham Park, NJ; 2UMDNJ, Newark, NJ.


5935 – A160  A Prospective Study of Phakic vs Pseudophakic Eyes After Phacoemulsification in Trabecuotomy for Open-Angle Glaucoma. Yuji Takihara1, M. Inatani1, M. Iwao1, M. Kawai1, T. Iinoue2, K. Iwao1, 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. Schlomborg1, F.K. Horn1, R. Rejdak2, F.E. Kruse1, M.C. Moelle1. 1Ophthalmology, University of Erlangen Nurnberg, Erlangen, Germany; 2General Ophthalmology, Medical University of Lublin, Lublin, Poland.


5939 – A164  A Comparison Of Intraocular Pressure Reduction After Selective Laser Trabeculoplasty With The Co-administration Of Loteprednol Versus None. Ronald L. Rebentisch1, 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. Floriani1, I. Riva1, G. Gambirasio1, I. De Simone1, E. Rulli1, E. Biagioli1, S. Credidio1. 1Ophthalmology-Glaucoma Unit, University of Brescia, Brescia, Italy; 2Laboratory of Clinical Trials, Istituto di ricerche farmacologiche «Mario Negri», Milan, Italy.


5944 – A169  Progression Rate Before and After Trabecuotomy. Jimena Schmidt1, S. Araneda1, E. Abusleme1, C. Perez1, E. Maul D2, 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 Trabecuectomy. Andrew Toren1, S. Kulkarni2, L. Shuba1, M. Nicoleti1. 1Ophthalmology & Visual Science, Dalhousie University, Halifax, NS, Canada; 2Ophthalmology, University of Ottawa, Ottawa, ON, Canada.


5948 – A173  Outcome And Structural Evolution Of Myotymecin Assisted Trabeculectomy In Inflammatory Glaucoma. Friederike Mackensen1, B.C. Dobner1, A.B. Knoll1, A.F. Scheuerle1, K. Rohrschneider1. 1Department of Ophthalmology, Interdisciplinary Uveitis Center, University of Heidelberg, Heidelberg, Germany; 2Department of Ophthalmology, University of Heidelberg, Heidelberg, Germany. *CR


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

5952 – A177  The Effects Of Trabeculectomy On Visual Field Progression Rates In Glaucoma. Aachal Kotecha1, R.A. Russell2, J.C. Clarke1, P.T. Khaw1, Moorflow Study Group. 1NIHR BRC for Ophthalmology, UCL Institute of Ophthalmology and Moorfields Eye Hospital, London, United Kingdom; 2Optometry and Visual Science, The City University, London, United Kingdom; 3Glaucoma, Moorfields Eye Hospital, London, United Kingdom.
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 Samsudin	extsuperscript{1,2}, S. Brocchini	extsuperscript{1,2}, P.T. Khaw	extsuperscript{1}, L. Eames	extsuperscript{1}. 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.


5955 — A180 Eyes With occludable Angles Despite Patent Iridotomy: How Efficient Is Laser Iridoplasty In These Cases? Vitor G. Prado	extsuperscript{1}, P.A. Moreno	extsuperscript{1,2}, E.D. Almeida, Jr.	extsuperscript{1}, A.S. Sousa	extsuperscript{1}, T.S. Prata	extsuperscript{1,2}. 1Ophthalmology, Federal University of São Paulo, São Paulo, Brazil; 2Hospital Medicina dos Olhos, São Paulo, Brazil.

5956 — A181 Short-Term Efficacy of Selective Laser Trabeculoplasty in Primary Angle Closure Disease - Results of a Randomized Controlled Trial. Arun Kumar Narayanaswamy	extsuperscript{1}, S.A. Perera	extsuperscript{1,2}, C. Ho	extsuperscript{1,2}, C.K. Leung	extsuperscript{3}, D.V. Istiantoro	extsuperscript{4}, M.E. Nongpiur	extsuperscript{1,2}, H.M. Htoon	extsuperscript{2,3}, T.T. Wong	extsuperscript{1,2}, P.A. Moreno	extsuperscript{1,2}, E.D. Almeida, Jr.	extsuperscript{1}, A.S. Sousa	extsuperscript{1}, T.S. Prata	extsuperscript{1,2}. 1Ophthalmology, National University Hospital, National University Health System, Singapore, Singapore; 2Ophthalmology, National University of Singapore, Singapore, Singapore; 3Ophthalmology, Ludwig-Maximilians-University, Munich, Germany.

5957 — A182 Excimer Laser trabeculoplasty (ELT) combined with Phacoemulsification and Lens Implantation: 5 Year Post-OP Observations. Ulrich F. Gieters	extsuperscript{1}, L. Kleinheegel	extsuperscript{1}, R.P. Stodmeister	extsuperscript{2}, M.S. Berlin	extsuperscript{1,3}, E.E. Pillunat	extsuperscript{4}. 1Detmold Eye Clinic, Detmold, Germany; 2Ophthalmology, University Hospital Carl Gustav Carus, Rodalben, Germany; 3Ophthalmology, Department of Ophthalmology and Visual Sciences, Chinese University of Hong Kong, Hong Kong, Hong Kong; 4Ophthalmology, Glaucoma, Jakarta Eye Center, Jakarta, Indonesia.


5959 — A184 Primary and Repeat Selective Laser Trabeculoplasty in Pseudophakic Eyes: 2 year follow-up. Tamara L. Berezina	extsuperscript{1}, A.S. Khoury	extsuperscript{1}, B.A. Maltzman	extsuperscript{1}, K. Shah	extsuperscript{1}, R.D. Fechner	extsuperscript{1}. 1Ophthalmology, UMDNJ-New Jersey Medical School, Newark, NJ; 2Drexel University, Philadelphia, PA.


5961 — A186 The Effectiveness of Selective Laser Trabeculoplastry on Eyes of Different Corneal Thicknesses. Joseph A. Donnelly	extsuperscript{1}, E. Miglino	extsuperscript{2}, L.F. Jindra	extsuperscript{1}. 1Albert Einstein College of Medicine, Bronx, NY; 2Floral Park Ophthalmology, Floral Park, NY; 3Ophthalmology, Columbia University, Floral Park, NY.

5962 — A187 Transscleral Micropulse Diode Laser Cyclophotocoagulation as Effective Adjunctive Treatment prior to Glaucoma Surgery. Maria Cecilia D. Aquino	extsuperscript{1}, A. Tan	extsuperscript{1}, S. Loom	extsuperscript{2}, P.T. Chew	extsuperscript{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. Mamta Shah, B. Eliassi-Rad. Department of Ophthalmology, Boston University School of Medicine, Boston, MA.


5966 — A191 The Cost Effectiveness And Duration Of Effectiveness Of SLT As Primary And Secondary Therapy Relative To Medications In The Treatment Of Primary Open Angle Glaucoma. Ernesto D. Golez, III	extsuperscript{1}, T.A. Shazly	extsuperscript{2}, A. Shalaby	extsuperscript{1}, L. Maza	extsuperscript{1}. 1Ophthalmology, Federal University of São Paulo, São Paulo, Brazil; 2Hospital Medicina dos Olhos, São Paulo, Brazil.


5969 — A194 Baseline Intraocular Pressure Strongly Predicts Response to Selective Laser Trabeculoplasty for Open Angle Glaucoma. J D. Nussdorf	extsuperscript{1}, A C. Janot	extsuperscript{1}, D.W. Hanson	extsuperscript{2}, P.J. DeMarco	extsuperscript{2}. 1Department of Ophthalmology, Ochsner Clinic Foundation, New Orleans, LA; 2Psychological and Brain Sciences, University of Louisville, Louisville, KY.

5970 — A195 Laser Surgery in the United Kingdom. Gordon Bowler	extsuperscript{1}, H. Saedon	extsuperscript{1}, R. Thomas	extsuperscript{2}, W. Chan	extsuperscript{1}. 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. Henderer	extsuperscript{1,2}, E.S. Tong	extsuperscript{1}, A. Johnston	extsuperscript{1}, S.K. Luminais	extsuperscript{1,2}, R. Sherry	extsuperscript{1}, J.P. Gaughan	extsuperscript{1}. 1Ophthalmology, 2Epidemiology and Biostatistics, Temple University, Philadelphia, PA.

5972 — A197 Quantification of Short-Term Endothelial Cell Loss and Intraocular Pressure Reduction Following Laser Peripheral Iridotomy. Gabriela C. Barretto	extsuperscript{1}, L. Trancoso	extsuperscript{1}, M. Cotá	extsuperscript{1}, L. Bitel	extsuperscript{1}, T. S Prata	extsuperscript{1}. Glaucoma, Hospital Medicina dos Olhos, Sao Paulo, Brazil; 2Glaucoma, Hospital dos Olhos, Sao Paulo, Brazil.

5973 — A198 Efficacy of Transscleral Diode Laser Cyclophotocoagulation on Neovascular Glaucoma: Vein Occlusion versus Proliferative Diabetic Retinopathy, Neha Sangal	extsuperscript{1}, A. Anchal	extsuperscript{1}, T.D. Patriankos	extsuperscript{2}. 1University of Chicago, Chicago, IL; 2John H. Stroger Jr. Hospital of Cook County, Chicago, IL.


5977 — A202 A Qualitative and Quantitative Analysis of Filtering Blebs with Optical Coherence Tomography in Patients after Primary Trabeculectomy. Pietro E. Napoli, I. Zucca, M. Fossarell. Eye Clinic, University of Cagliari, Cagliari, Italy.


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


5981 — A206 Scanning Electron Microscopy Findings In Rabbit Eyes Undergoing Ultrasonic Cyclocoagulation. Florent Apitel1, A. Bégé2, T. Charrel1, C. Lafon1, J-Y. Chapelon1, P. Denis1, F. Romano1. 1Grenoble University Hospital, Grenoble, France; *Inserm U1032, Lyon, France; EyeTechCare, Rillieux la Pape, France; *Croix-Rousse University Hospital, Lyon, France. *CR

5982 — A207 The Effects Of Combined Endoscopic Cyclophotocoagulation (ECP) And Phacoemulsification In The Treatment Of Mild To Moderate Glaucoma. Michael J. Siegel1, W-S. Shieh2, O.S. Faridi3, C.K. Gupta4, M.S. Juzeh5, M.E. Citron5, M.J. Siegel5, L.I. Siegel5. 1Ophthalmology, Kresge Eye Institute, Detroit, MI; 2School of Medicine, Wayne State University, Detroit, MI; 3Ophthalmology, William Beaumont Hospital, Royal Oak, MI; 4Ophthalmology, Beaumont, Bloomfield Hills, MI; 5Glucoma Center of Michigan, Southfield, MI.

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

523 Corneal Endothelium

Moderator: Ula V Jurkunas


5987 — D808 Genetic screen of African-Americans with Fuchs endothelial corneal dystrophy. Natalie A. Afshari1, M.A. Minear2, J. Rimmer1, E. Balajonda1, S. Watson1, M.A. Hauser2, R R. Allingham2, G.K. Klintworth3, Y-J. Li4, 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 Ophthalm, Duke Univ Medical Center, Morrisville, NC.

5988 — D809 Successful Culture Of Human Corneal Endothelial Cells Isolated From Patients With Fuchs Endothelial Corneal Dystrophy. Marie-Claude Perron1, K. Zanololo1, C. Bostan1, O. Rochette Drouin2, A. Deschambeault2, I. Brunette3, S. Proulx2. 1Maisonneuve-Rosemont Hospital Research Center, Montreal, QC, Canada; Centre LOEX de l’Université Laval, Génie tissulaire et régénération; Centre de recherche FRSQ du CHA universitaire de Québec and Department of ophthalmology and ORL, Laval University, Quebec, QC, Canada; 2Department of ophthalmology, University of Montreal, Montreal, QC, Canada.


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


5992 — D813 Reconstruction of a Corneal Endothelium Using Cells From Patients With Fuchs Endothelial Corneal Dystrophy. Stephanie Proulx1, M. Haydar1, B. Goyer2, O. Roy2, S. Laprise1, O. Rochette Drouin2, I. Brunette2. Centre LOEX de l’Université Laval, Génie tissulaire et régénération; Centre de recherche FRSQ du CHA universitaire de Québec and Département d’ophthalmologie, Université Laval, Québec, QC, Canada; Département d’ophthalmologie, Université de Montréal and Centre de Recherche de l’Hôpital Maisonneuve-Rosemont, Montréal, QC, Canada.


5994 — D815 Fabricating Bioengineered Corneal Endothelial Cell Sheet Through Chitosan-polyacrylate-blended Membranes. Tsung-Jen Wang1,2, I-J. Wang3,4, T-H. Young2. 1Department of Ophthalmology, Taipei Medical University Hospital, Taipei, Taiwan; 2Department of Ophthalmology, Taipei Medical University Hospital, Taiepi, Taiwan; 3Department of Ophthalmology, National Taiwan University Hospital, Taipei, Taiwan; 4Department of Ophthalmology, National Taiwan University College of Medicine, Taipei, Taiwan.

6003 — D824 In Vitro Expansion Of Corneal Endothelial Cells On Biomimetic Substrates. Rachelle Palchesko1, J.L. Funderburgh2, A. Feinberg1. 1Ophthalmology, University of Pittsburgh School of Medicine, Pittsburgh, PA; 2Biomedical Engineering, Carnegie Mellon University, Pittsburgh, PA.

6004 — D825 Lentivirus Mediated Interference With the ZO-1/ZONAB Pathway Induces Cell Cycle Progression in Human Corneal Endothelial Cells. Daniel Kampik1, M. Basche1, A. Georgiadis1, U.F. Luhmann1, A.J. Smith1, F. Larkin1, R.R. All1. 1Department of Genetics, UCL Institute of Ophthalmology, London, United Kingdom; 2Moorfields Eye Hospital, London, United Kingdom.

6005 — D826 Functional Study of SLC4A11 in HEK293 cells. Diego G. Ogando1, S.S. Jalimarada1, E.N. Vithana1, J.A. Bonanno1. 1School of Optometry, Indiana University, Bloomington, IN; 2Singapore Eye Research Institute, Singapore, Singapore.

6006 — D827 Functional Characterization of the Zebrafish Corneal Endothelium. J. M. Heur1,4, S. Jiao1,4, G. Cruc4,4. 1Ophthalmology, 4Cell and Neurobiology, University of Southern California, Los Angeles, CA.


6008 — D829 Over-representation Preliminary Analysis Between Expressed Genes In Corneal Endothelium And Mesenchymal Stem Cells. Jorge E. Valdez1,2, 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 Lactate Transporters MCT1 and MCT4 in Rabbit Corneal Endothelium. Shimin Li, T.T. Nguyen1, J.A. Bonanno1. 1Singapore Eye Research Institute, Singapore, Singapore; 2Singapore National Eye Centre, Singapore, Singapore; 3Department of Ophthalmology, Renmin Hospital of Wuhan University, Wuhan, China.

6010 — D831 Cultivation of Human Corneal Endothelial Cells on a Pericellular Matrix Prepared from Human Decidua-Derived Mesenchymal Cells. Yuhei Numata1, N. Okumura1, M. Nakahara1, M. Ueno1, S. Kinoshita1, Y. Kanemura1, T. Saito1, N. Koizumi1. 1Biomedical Engineering, Faculty of Life and Medical Sciences, Doshisha University, Kyotanabe, Japan; 2Ophthalmology, Kyoto Prefectural Univ of Med, Kyoto, Japan; 3Division of Regenerative Medicine, Institute for Clinical Research Osaka National Hospital, National Hospital Organization, Osaka, Japan; 4Center for Developmental Biology, Riken, Kobe, Japan.

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

6012 — D833 NF-xB is the Transcription Factor of FGF-2 that Causes Endothelial Mesenchymal Transformation in Cornea. Jeong Goo Lee1,2, J.M. Heur2, E.P. Kay2,2. 1Ophthalmology, University of Southern California, Los Angeles, CA; 2Doheny Eye Institute, Los Angeles, CA.

6013 — D834 Isolation and Propagation of Human Corneal Endothelial Cells Using a Dual Media Culture System. Gary S. Peh1, K-P. Toh1, D. Balehosur1, H-P. Ang1, M-X. Lee1, D.T. Tan1,2, 1Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 2Singapore National Eye Centre, Singapore, Singapore; 3Department of Ophthalmology, Duke-NUS Graduate Medical School, Singapore, Singapore.

6014 — D835 Apoptosis And Viability Of Human Corneal Endothelial Cell Cultures Following Photodynamic Therapy (pdt). Tanja Stachon1, J. Wung2,2, T. Eppig2,2, A. Langenbucher10, B. Seitz12, N. Szentmáry12. 1Department of Ophthalmology, 2Experimental Ophthalmology, Saarland University Hospital, Homburg/Saar, Germany; 3Department of Ophthalmology, Innovation, Kobe, Japan.


6018 — D839 Study of Effect of Donor Age and Death Neculcation Time in in-vitro Culture of Human Corneal Endothelial Cells. Himi Singh1, R. Tandon1, S. Mohanty1, A. Kumar1,4. 1Ophthalmology,Dr.R.P. Centre for Ophthalmic Sciences, 4 Stem Cell Facility, 1All India Institute of Medical Sciences, New Delhi, India.
2602 — D844 Endothelial Keratoplasty: The Relationship Between Six Month Postoperative Endothelial Cell Density And Graft Survival. Asemt A. Alqadah1, M.A. Terry2, M. Strahli3, M. Greiner3, D. Davis-Bozzer3, Cornea, Corneal Services, Devers Eye Institute, Portland, OR; Lions Eye Bank of Oregon, Portland, OR. *CR


2606 — D847 Long-Term Endothelial Cell Density With Phakic Foldable Iris-Claw Intraocular Lens (Veriflex®). Natalie Kaplan1, H. Dick1, W. Sekundo1, N. Pfeiffer1, U. Vossmerbaeumer1. *Department of Ophthalmology, Mainz University Medical Center, Mainz, Germany; *Department of Ophthalmology, Ruhr University Bochum, Bochum, Germany; *Department of Ophthalmology, Marburg University Medical Center, Marburg, Germany.

2607 — D848 Improvement Of Endothelial Keratoplasty Lamellar Dissection By Combined Use Of Femtosecond And Excimer Lasers. Liem Trinh1,2, B. Sauvanet3,4, F. Auclign1,2, A. Denoyer1,2, R. Lari-Kuen1, M. El Handoouri1,2, A. Lubb1,2, M-C. Despain1,2, F. Brignole-Baudouin1,2, C. Baudouin1,2. *Ophthalmology III, *Clinical Investigation Center (CIC) 503, *Pharmacy, *Quinze-Vingts National Hospital, Paris, France; *INSERM U705, UMR CNRS 8206, Paris, France; *Plateau Technique d’Imagerie Cellulaire et Moléculaire, *Toxicology, *Faculty of Biological and Pharmacological Sciences, University of Paris 5 René Descartes, Paris, France; *Vision Institute, UMR 968, University Pierre et Marie Curie Paris 6, Paris, France.

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

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

Moderators: Vincent M Borderie

2608 — D849 Main indications for admission to a corneal transplant program in Mexico: Analysis of the National Transplant Registry. Jose A. Claros1, A.J. Ramirez-Miranda2, R. Vargas1, A. Navas1, A. Gomez1, A. Jimenez-Corona1, E.O. Grae1. *Cornea And Refractive Surgery, Instituto de Ofthalmologia De conta de Valenciana, Mexico City, Mexico; *Instituto Nacional de Salud Publica, Cuernavaca, Mexico.


2610 — D851 Average Waiting Time before Keratoplasty and Possible Variation of this Deadline According to the Seasons: Retrospective Study about 318 cases and 10 Years of Follow-up. Jean-Marc Perone, A. Agapie, O. Guechi, O. Gheorghe, I. Botez, P-J. Bertaux, A. Ferte. *Ophthalmology, Regional Hospital Center of Metz Bon Secours, Metz, France; *Ophthalmology, Regional Hospital Center of Metz Bon Secours, Metz, France.

2632 — D853 European Study On Reliability Assessment Of Endothelial Cell Count In Eye Banks: The Eurokeratostest Study. Gilles Thuret1,2, Z. He1, N. Campolmi1,2, B. Ha Thir1, T. Dumollard4, M. Pocq4, N. Delesalle1, A. Bernard2, P. Gain4,2. *Ophthalmology, *Pathology, University Hospital of St-Etienne, Saint-Etienne, France; *Corneal Graft Biology, Engineering and Imaging Laboratory, EA2521, Federative Institute of Research, Faculty of Medicine, Jean Monnet University, Saint-Etienne, France; *The French Health Products Agency (Afssaps), Saint-Denis, France.


2635 — D856 Downs Syndrome Donor Tissue: Suitability and Outcomes of Stromal Replacement Corneal Transplantation. Syed Mahmood A. Shah1, M. Moskhar2, M. Mifflin3, Y. Khalifa2,1. *Flaum Eye Institute, University of Rochester Medical Center, Rochester, NY; Moran Eye Center, University of Utah, Salt Lake City, UT.


2637 — D858 Cross-linked Variants Of A Novel Semi-synthetic Collagen Substitute For The Reconstruction Of The Surface. Corinna Petch1, U. Schlotzer-Schrehardt1, M. Frey1, F.E. Kruse1, B. Bachmann1. *Ophthalmology, University Hospital Erlangen, Erlangen, Germany; *Department of Ophthalmology, University of Erlangen-Nürnberg, Erlangen, Germany; *RESORBA Wundversorgung GmbH & Co. KG, Nuremberg, Germany; *Department of Ophthalmology, University of Erlangen Nurnberg, Erlangen, Germany. *CR


2639 — D860 Investigation for the Possibility of Using Polymer Hydrogels as a Device for Cultivation and Transplantation of Corneal Epithelial Cells. Toru Matsunaga1,2, W. Yasuoka1,2, K. Matsuura2, A. Matsuda1, N. Ebihara1, M. Murakami1. *Department of Ophthalmology, Juntendo Univ School of Med, Bunkyo-Ku, Japan; *Research and Development, SEED Co., Ltd., Kounosu-Shi, Japan. *CR
6040 — D861 Reduced Hem-And Lymphangiogenesis Into A Fishscale-derived Collagen Scaffold Used As Biological Artificial Cornea (BioCornea). Deniz Hos1, F. Bock2, B. Regenfuss3, J. Onderka4, C.C. Lin5, H.J. Lat6, C. Cursiefen7. 1Department of Ophthalmology, University of Cologne, Cologne, Germany; 2Department of Ophthalmology, University of Erlangen-Nuremberg, Erlangen, Germany; 3Acion ASTRON Corp., Taipei, Taiwan; 4Acion Aeon 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. Fordye1, M. Robertson1, M. Griffith2, J-I. Ahn3, K. Merritt4, R.L. Hendricks5, J.V. Forrester1. 1Department of Ophthalmology, University of Aberdeen, Aberdeen, United Kingdom; 2Integrative Regenerative Medicine Centre, Linköping University, Linköping, Sweden; 3Department of Ophthalmology, University of Ottawa Eye Institute, Ottawa, ON, Canada; 4GMP Laboratories, Linköping University Hospital, Linköping, Sweden; 5Department of Ophthalmology, University of Pittsburgh School of Medicine, Pittsburgh, PA. *CR

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


6048 — D869 Risk Factors for Endothelial Cell Loss after Corneal Transplantation. Vincent M. Borderie1, J. Buller1, O. Touzeau2, P. Goldschmidt3, L. Laroche4. 1Laboratory, 2CHNO des Quinze-Vingts, Paris, France. 3Department of Ophthalmology, New York University Medical Center, New York, NY; 4Ophthalmology, New York Medical College, Valhalla, NY.

6049 — D870 Graft Failure And Intraocular Pressure Control After Keratoplasty In Iridocorneal Endothelial Syndrome. Desmond T. Quek1-3, S. Han1, T. Wong2, D. Tan2, J. Mehta2. 1Singapore National Eye Center, Singapore, Singapore; 2Singapore Eye Research Institute, Singapore, Singapore; 3Ophthalmology, Samsung Medical Centre, Sungkyunkwan University, Korea, Republic of Korea.


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

6054 — D875 Spontaneous wound dehiscence after removal of combined penetrating keratoplasty suture. Retrospective study about 71 cases. Oualid 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.


6056 — D877 Results Of Excimer Laser Penetrating Keratoplasty In Aphakic Eyes. Kouris Ninnios, P. Matoula, S. Stathakis, F. Schirra, B. Zellander1, M. Makhsous2, M. Cho1. 1Department of Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 2Department of Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 3Department of Biomedical Engineering, Bascom Palmer Eye Institute, Miami, FL; 4Department of Biomedical Engineering, Biomedical Optics and Laser Laboratory, University of Miami, Coral Gables, FL; 5Department of Maxillofacial Surgery, University of Miami Miller School of Medicine, Miami, FL.


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. Nucci2, V. Maurino3. 1Cornea and External Disease Service, Moorfields Eye Hospital, London, United Kingdom; 2Department of Biopathology, Ophthalmology Unit, University of Rome Tor Vergata, Rome, Italy.


6060 — D881 Optical Functional Properties Of The Osteo-odontokeratoprosthesis (ookp). Richard M. Lee1, G. Ong1, J. White1, F. Lam1, C.S. Liu1, C.C. Hall1. *Ophthalmology, Sussex Eye Hospital, Sussex Eye Hospital, United Kingdom; 2Optometry & Visual Science, City University, London, United Kingdom.


6062 — D883 Field of View of Modified Osteo-odontokeratoprothesis. Victor M. Hernandez1,2, C. de Freitas1,4, G.C. Falcinelli1, Y. Sawatari2, V. Perez1,2, D. Sathiah3, F. Manns1,2, E.C. Alfonso1,2, J-M.A. Parel1, B. Gaster, R. Steinert. *Department of Ophthalmology, *Bascom Palmer Eye Institute, Miami, FL; 2Department of Biomedical Engineering, Biomedical Optics and Laser Laboratory, University of Miami, Coral Gables, FL; 3Department of Maxillofacial Surgery, University of Miami Miller School of Medicine, Miami, FL.

6063 — D884 Poly(ethylene glycol diacrylate) - Poly(2-hydroxyethyl methacrylate) (PEGDA-PHEMA) Based Keratoprosthesis. Amelia L. Zellander1, M. Makhous2, M. Cho1. *Biomedical Engineering, University of Illinois at Chicago, Chicago, IL; 2Physical Therapy and Human Movement Sciences, Orthopaedic Surgery and Physical Medicine, Northwestern University, Chicago, IL. *CR


6068 — D890 Retroprosthetic Membrane Thickness and Risk of Melt in Patients with Type I Boston Keratoprosthesis. Kavitha R. Sivaranan, J.H. Hou, N. Alleman, J. De la Cruz, M.S. Cortina. Department of Ophthalmology, University of Illinois Eye & Ear Infirmary, Chicago, IL.


6071 — D892 Long-term Follow-up Of Implanted Boston Type I Keratoprosthesis And Angle Structural Changes Using Using Anterior Segment Optical Coherence Tomography. Cynthia X. Qian1’, S. Hassanally1, M. Harissi-Dagher1’. ‘Ophthalmology, 1Medicine, University of Montreal, Montreal, QC, Canada.


6074 — D895 Monitoring Of Glaucoma After The Implantation Of A Keratoprosthesis. Riccardo Scotto’, M. Papadis1, A. Baginis2, A. Macri’, C.E. Traverso’. ‘Ophthalmology, DiNOG, University of Genoa, Genova, Italy; 2Di NOG, *Eye Clinic, 3Clinica Oculistica - Di NOG, 4University of Genova, Genova, Italy; 5Azienda Ospedaliera Universitaria San Martino, Genova, Italy.

6075 — D896 A Prospective Trial Comparing Scleral Pneumotonomometry to Goldmann Applanation Tonometry. Sara L. Dukes, U. Abago, S. Patel. Ophthalmology, Loyola University Medical Center, Maywood, IL.

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

525 Contact Lens II (Basic Research)

Moderators: Nicole A Carnt and Nancy J Keir

6076 — D897 Effect of Contact Lens Solutions on the Antimicrobial Efficacy of Human Tear Proteins during Lens Disinfection. Bianca L. Price1, P.B. Morgan1, C. Maldonado-Codina1, C.B. Dobson1. ‘Faculty of Life Sciences, *EuroLens Research, Faculty of Life Sciences, 1University of Manchester, Manchester, United Kingdom.

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

6078 — D899 Evaluation Of Commercially Available Novel Multi-purpose Contact Lens Care Solutions Effect On Membrane-associated Mucin Expression In The Rat Cornea. Kiss:ou T. Tchedre1, M. Imayasu1, Y. Horii1, H.D. Cavanagh2. ‘R&D and Innovation Center, Menicon LTD, Kasugai, Japan; 2Ophthalmology, Toho University Sakura Medical Center, Sakura, Japan; 3Ophthalmology, Univ Texas Southwestern Med Ctr, Dallas, TX.

6079 — D900 Comparison of Disinfection Efficacies of Four Contact Lens Care Regimens Against Pseudomonas aeruginosa on Orthokeratology Lenses. Yoshie Ito1, N. Miyata2, T. Kawagoe2, M. Nobuhisa2, E. Okada2. ‘Okada 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, P. Tran1, C. Jarvis2, J. Thomas2, K. Tran1, T. Mosley’, R. Hanes4, A. Hamood4. ‘Ophthalmal & Visual Science, 4Microbiology, Texas Tech University Health Sciences Center, Lubbock, TX; 5Selenium Ltd., Lubbock, TX; 6Selenium Ltd., Austin, TX.


6085 — D906 Antimicrobial Efficacy of Melamine Covalently Bound to Contact Lenses. Debarun Dutta1, N. Cole2, M. Wilcock3. ‘Brien Holden Vision Institute, Sydney, Australia; 2School of Optometry and Vision Science, University of New South Wales, Sydney, Australia.

6086 — D907 Organo-Selenium Coated Contact Lenses: Effect Upon Bacterial Biofilm Attachment. Phai Tran1, A. Hamood2, C. Jarvis1, J. Thomas2, B. Lackey2, T. Mosley2, T. Reid2. ‘Ophthalmology and Visual Sciences, 2Microbiology, 3Ophthalmology, Texas Tech University Health Sciences Center, Lubbock, TX; 4Selenium Ltd., Lubbock, TX.

6087 — D908 Non-Cultivable Bacterial Biofilm Communities in Used Contact Lens Cases. Judith L. Flanagan1, M. Allgeier1, M.D. Wilcock1, P. Hugenholz1. ‘Brien Holden Vision Institute, Sydney, Australia; 2Joint Genome Institute, Walnut Creek, CA; 3Brien Holden Vision Institute, Univ of New South Wales, Sydney, Australia; 4Australian Centre for Ecogenomics, School of Chemistry and Molecular Biosciences & Institute for Mol, University of Queensland, Queensland, Australia.


6089 — D910 Membrane Permeability Of Staphylococcus Aureus Aggregates Exposed To Contact Lens Care Solutions. David J. McCanna, L.W. Jones. CCLR-School of Optometry, University of Waterloo, Waterloo, ON, Canada.
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. Wilcox2, B.A. Holden3.
1Brien Holden Vision Institute, Sydney, Australia; 2School of Optometry and Vision Science, University of NSW, Sydney, Australia; 3Brien Holden Vision Institute, Vision Cooperative Research Centre, Sydney, Australia. *CR

6091 — D912 Ocular Cytotoxic Potential Assessment Of Contact Lens Care Solutions And Evidence For A Useful Rinse Step With Unpreserved Solution. Melody Dutot4, J. Vincent5, I. Fabre5, C. Grasnick5, R. Fagon1, P. Rat4.
4Toxicology, *Research&Development, YSLAB, Paris, France; 5Direction des Laboratoires et des Contrôles, Agence Française de Sécurité Sanitaire des Produits de Santé, Vendauges, France; ‘Chimie-Toxicologie Analytique et Cellulaire (EA 4463), Université Paris Descartes, Sorbonne Paris Cité, Paris, France; ‘School of Optometry and Vision Science, University of New South Wales, Sydney, Australia; 3Cornea, Paris, France; 2Direction des Laboratoires et des Produits de Santé, Vendargues, France; ‘Institute of Ophthalmology, University of London, London, United Kingdom. *CR

6092 — D913 Morning Cleaning or Replacement of Lenses Reduces Complications with Extended Wear of Contact Lenses. Jerome Ozkan4, M.D. Wilcox5, P. Lazon De La Jara1, V.M. Rathi1, B.A. Holden3.
1Clinical Research & Trials Centre, ‘Brien Holden Vision Institute, Sydney, Australia; ‘Brien Holden Vision Institute, Univ of New South Wales, Sydney, Australia; ‘Cornea, Contact lens, Refractive Surgery, LV Prasad Eye Institute, Banjara Hills, Hyderabad, India; ‘Brien Holden Vision Institute, Vision Cooperative Research Centre, Sydney, Australia. *CR

6093 — D914 Qualitative and Quantitative Lubricity of Experimental Contact Lenses. Robert C. Tucker1, B. Quinter2, D. Patel1, J. Pruitt1, J. Nelson1. R&D, Alcon, Johns Creek, GA. *CR

6094 — D915 Effect of Soft Contact Lens Storage Solutions on Lens Wettability In-Vitro. Raised Fagehi1, A. Tomlison2, V. Manahilos3. Vision Sciences, Glasgow Caledonian University, Glasgow, United Kingdom.

6095 — D916 Robust Contact Lens Lubricity using Surface Gels. W. G. Sawyer1, A.C. Dunn1, J.M. Uruena1, B.A. Ketelson2. 1Mechanical and Aerospace Eng, University of Florida, Gainesville, FL; ‘R & D, Alcon Research Ltd, Fort Worth, TX. *CR


6097 — D918 Proteoglycan 4 (lubricin) Enhances the Wettability Of Model Conventional And Silicone Hydrogel Contact Lenses. Lakshman N. Subbarayan1, T.A. Schmidt1, H. Sheard1. 1Chemical Engineering, McMaster University, Hamilton, ON, Canada; ‘Biomedical Engineering, University of Calgary, Calgary, AB, Canada.

6098 — D919 Estimating in-vivo Contact Lens Wettability Through Tear Film Hydrodynamics. Jalahai P. Varikooty1, N.J. Keir2, T.L. Simpson2. 1CCLR, School of Optometry, 2School of Optometry, University of Waterloo, Waterloo, ON, Canada.


6101 — D922 Ocular Delivery Of Ketotifen 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. Kikisu2, Y. Yamazaki1, T. Sato2, T. Tochikubo1. 11st Dept of Ophthalmology, Toho University, Tokyo, Japan; ‘SEED 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. Lee, Vision Care, Bausch + Lomb, Rochester, NY. *CR

6105 — D926 Oxygen Diffusion Behind Modern Scleral Rigid Gas Permeable Contact Lenses. Sofia C. Peixoto-de-Matos1, V. Compañ2, S. Moya1, J. Jorge1, J.M. Gonzalez-Meijome3. 1Center of Physics, University of Minho, Braga, Portugal; ‘Applied Thermodynamics, Universidad Politécnica de Valencia, Valencia, Spain. *CR

6106 — D927 Rapid Measurement of Tear Oxygen Tension Underneath Soft Contact Lenses by Frequency-Domain Phosphorimetry. Sangpy P. Srinivas1, G. Guidoboni1, L. Carichino2, Y. Jiang2, J.A. Bonanno3. 1Optometry, Indiana University, Bloomington, IN; ‘Mathematics, IUPUI, Indianapolis, IN.


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


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


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures — Refer to Program Number in the Clinical Trial (CT) Registration Index — Travel Grant Awardee
6117 — D938 Evaluation of In Vitro Cytotoxicity Assays for Contact Lens Multi-Purpose Solutions. Mercedes Salvador-Silva1, L.C. Huang2, C.H. Powell3, L. Hoong4, R.M. Yetemeni5. 1R&D - Biological Sciences, 2Corneal R&D, Abbott Medical Optics (AMO), Santa Ana, CA.*CR

6118 — D939 Cytotoxic and Inflammatory Effects of Contact Lens Multipurpose Solutions on Human Corneal Epithelial Cells. Nir Erdinest1, Y. Grosman1, R. Harari1, H. Ovadia2, A. Solomon1B. 1Hadassah Hebrew University Medical Center, Jerusalem, Israel. 2Hadassah Hebrew University Medical Center, Jerusalem, Israel.

6119 — D940 The Impact of Intermittent Air Exposure on the Deposition of Lipids on Silicone Hydrogel and Conventional Hydrogel Contact Lens Materials. Holly I. Lorenz, 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. *CR

6122 — D943 Differential Surface Friction Analysis of Silicone Hydrogel Contact Lenses Treated with Block Co-Polymer Multi-Purpose Solutions. Peter Maziarz, IW, X. Liu1, C.P. Lusignan, M.M. Merchea1. 1Research & Development, Bausch + Lomb, Brockport, NY; 2Research & Development, Bausch + Lomb, Rochester, NY; 3Bausch & Lomb, Rochester, NY. *CR


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

6125 — D946 Measuring The Kinetics and Activity of Adsorbed Proteins: In Vitro. Lysozyme Deposited Onto Contact Lenses Over Short Time Periods. Brad Hall1, L. Jones1A, J.A. Forrest1A. 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 Cxcl1 Contributes To Host Resistance Following Pseudomonas Aeruginosa Corneal Infection But Not To Herpes Simplex Virus Type 1. Katie M. Hudson1, D.J. Carr2, J.A. Christodoulides1, P. Hossain2, J. Heath1. Ocular Immunology & Inflammation, University of Mississippi Med Ctr, Jackson, MS.

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.

6132 — D992 Pseudomonas aeruginosa Keratitis: Pathogen Genotype Impacts Clinical Presentation and Outcomes. Durga S. Borkar1, S.M. Fleischig2, D.J. Evans3, C. Leon2, P. Lalitha1, M. Srinivasan1, T.M. Lietman1, N.R. Acharya3. 1F. I. Proctor Foundation, University of California, San Francisco, San Francisco, CA; 2School of Optometry, University of California, Berkeley, Berkeley, CA; 3Aravind Eye Hospital, Madurai, India.


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 priya1, S. Sivaganesa Karthikeyan1, N. Venkatesh Prajna1, E. Pearlman1, A. Rietsch1, P. Lalitha1. Microbiology, Aravind Medical Research Foundation, Madurai, India; Ophthalmology and Visual Sciences, Case Western Reserve University, Cleveland, OH; Dept. of Molecular Biology and Microbiology, Case western Reserve University, Cleveland, OH.

6136 — D996 Interactions of Pseudomonas aeruginosa with human cornea fibroblasts in vitro., Ahmad Elsahn1, C. Heath1, M. Christodoulides1, P. Hossain1, J. Heath1. Ophthalmology, University of Mississippi Med Ctr, Jackson, MS.


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

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

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

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6141 — D1001  Involvement of Corneal Epithelial Cells in the T<sub>17</sub> Response in an In Vitro Bacterial Infection Model. Isabel Arranz-Válsaro<sup>1</sup>, U. Schütze<sup>2</sup>, L. Contreras-Ruiz<sup>2</sup>, L. García-Posadas<sup>2</sup>, A. Lopez-Garcia<sup>4</sup>, F. Paulsen<sup>4</sup>, Y. Diebold<sup>4</sup>. Ocular 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, Biology, Martin Luther University Halle/Wittenberg, Sciences, 5OPIA


6143 — 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.

6144 — D1004  Analysis of Acanthamoeba cysts isolated from contact lenses with the Raman spectroscopy microscope. Pablo L. Goldschmidt<sup>1</sup>, D. Di Cave<sup>1</sup>, S. Degorge<sup>1</sup>, D. Benallaoua<sup>1</sup>, E. Borsali<sup>1</sup>, A. Le Bouter<sup>1</sup>, L. Batellier<sup>1</sup>, V. Borderie<sup>1</sup>, A. Rousseau<sup>1</sup>, S. Barradeau<sup>5</sup>, C. Desseaux<sup>6</sup>, B. Chapellier<sup>4</sup>, A. Ergani<sup>2</sup>, A. Laroche1B, C. Chaumeil1B.

6145 — D1005  Acanthamoeba Associated Microbial Communities. Darlene Miller<sup>1</sup>, J. Maestre-Mesas<sup>2</sup>, M. Diaz<sup>1</sup>, E. Perez<sup>1</sup>, V. Shestopalov<sup>1</sup>, R. Van Gelder<sup>1</sup>, E.C. Alfonso<sup>1</sup>. Bascom Palmer Eye Institute, Univ of Miami Miller Sch of Med, Miami, FL; 2Ophthalmology, Univ of Washington School of Medicine, Seattle, WA.

6146 — D1006  Experimental Induction of Acute Acanthamoeba castellanii Keratitis in Cats. Eric C. Ledbetter<sup>2</sup>, E.C. da Silva<sup>4</sup>, L. Dong<sup>3</sup>, S.P. McDonough<sup>4</sup>. 2Clinical Sciences, 3Biomedical Sciences, 4Cornell University, Ithaca, NY.*CR


6148 — D1008  Gene Transfer Of Hsv1-specific Megenacenease To The Murine Cornea Using Electroporation. Antoine Rousseau<sup>2</sup>, A. Ergani<sup>2</sup>, E.E. Gabison<sup>1</sup>, M. Corral<sup>1</sup>, N. Huot<sup>1</sup>, M. Gaillédrat<sup>1</sup>, C. Desseaux<sup>6</sup>, B. Chapellier<sup>6</sup>, P. Roy<sup>1</sup>, M. Labetoulle<sup>6</sup>. Ophthalmology, Hopital Bicetre, South Paris University, Le Kremlin Bicetre, France; 2Ophthalmology, UT Houston Health Science Center (UTHSC), Houston, TX; 3Ophthalmology Section/Head and Neck Surgery, UT MD Anderson Cancer Center, Houston, TX.

6150 — D1010  HSV1-specific Megenacenease May Reduce Ocular Inflammation In A Mouse Model Of Herpes Keratitis. Marc Labetoulle<sup>1</sup>, E.E. Gabison<sup>1</sup>, N. Huot<sup>1</sup>, A. Rousseau<sup>1</sup>, S. Barradeau<sup>5</sup>, C. Desseaux<sup>6</sup>, B. Chapellier<sup>4</sup>, A. Ergani<sup>2</sup>, A. Laroche1B, C. Chaumeil1B.

6151 — D1011  CD8<sup>+</sup> T Cells Inhibit Viral Replication but Become a Source of VEGF Expression During Corneal Herpes Simplex Type I Infection. Christopher D. Conroyd<sup>1</sup>, M. Zheng<sup>2</sup>, D. U. Stone<sup>2</sup>, D.J. Carr<sup>1</sup>. 1Microbiology and Immunology, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK; 2Ophthalmology, University of Oklahoma, University of Oklahoma/Oklahoma City, OK.

6152 — D1012  Protective Asymptomatic Human Leukocyte Antigen (HLA)-A*0201-Restricted CD8<sup>+</sup> Cytotoxic T-Lymphocyte Epitopes Identified from Herpes Simplex Virus Glycoprotein B. Anthony B. Nesburn<sup>1</sup>, X. Dervillez<sup>1</sup>, A.A. Chentoufi<sup>3</sup>, G. Das Gupta<sup>3</sup>, K.W. Kabbara<sup>3</sup>, M.C. Villacres<sup>1</sup>, C. Nguyen<sup>3</sup>, L.S. Wechsler<sup>3</sup>, A. Ergani<sup>2</sup>, A. Laroche1B, C. Chaumeil1B.

6153 — D1013  Non-Muscle Myosin IIa Mediates HSV-1 Entry Into the Cells of the Human and Pig Corneas. Thessicar E. Antoine<sup>1</sup>, D. Shukla<sup>4</sup>. 1Ophthalmology and Visual Sciences, 2Microbiology and Immunology, 3University of Illinois at Chicago, Chicago, IL.

6154 — D1014  Corneal Dendritic Cells Suppress Local Corneal Damage and Mediate Systemic Viral Dissemination in Herpes Simplex Keratitis. Kai Hu<sup>1</sup>, H. Ghiasi<sup>1</sup>, J. Fournier<sup>1</sup>, A. Chentoufi<sup>3</sup>, P. Roy<sup>1</sup>, M. Labetoulle<sup>6</sup>. Ophthalmology, Hopital Bicetre, South Paris University, Le Kremlin Bicetre, France; 2Ophthalmology, UT Houston Health Science Center (UTHSC), Houston, TX; 3Ophthalmology Section/Head and Neck Surgery, UT MD Anderson Cancer Center, Houston, TX.


6157 — D1017  Misting of Human Adenovirus Type 19 Associated with Epidemic Keratoconjunctivitis. Xiaohong Zhou<sup>1</sup>, C.M. Robinson<sup>2</sup>, J. Rajayal<sup>2</sup>, D. Seto<sup>3</sup>, M.S. Jones<sup>4</sup>, D.W. Dyer<sup>1</sup>, J. Chodosh<sup>1</sup>. 1Ophthalmology, Mass Eye and Ear - Harvard Medical School, Boston, MA; 2School of Systems Biology, George Mason University, Manassas, VA; 3Viral and Rickettsial Disease Laboratory, California Department of Public Health, Richmond, CA; 4Microbiology and Immunology, University of Oklahoma Health Science Center, Oklahoma City, OK.*CR


6159 — 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. Kinchington<sup>1</sup>, M.B. Yee<sup>1</sup>, M. Zhang<sup>2</sup>, W.F. Dyer<sup>3</sup>. 1Microbiology, University of Oklahoma Health Science Center, Oklahoma City, OK; 2Ophthalmology, University of Oklahoma Health Science Center, Oklahoma City, OK; 3Biomedical Sciences, 4Peregrine Pharmaceuticals Inc., Tustin, CA.*CR

6160 — D1020  Neutralizing Kc (cex1) Ameliorates Recurrent Hsk. Patrick M. Stuart, D. West. Ophthalmology, St Louis University, St Louis, MO.

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

6162 — D1022  Association Between Atopy and Herpetic Eye Disease in a Hawaiian Population. John A. Gonzales1, D. Borkar1, V. Thami2, A. Vinova2, E. Estereberg1, N. Acharya1. 1F.I. Proctor Foundation, University of California San Francisco, San Francisco, CA; 2Ophthalmology, Kaiser Permanente Honolulu, Honolulu, HI.

6163 — D1023  Pattern of Herpetic Eye Disease In A Referral Centre In Milan, Northern Italy. Giulio Modorati1, E. Miserez0, I. Bianchi1, A. Colucci, F. Bandello. Dept of Ophthalmology, Univ Hospital San Raffaele, Milan, Italy.


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


6167 — D1027  The Immune Response To 3 Different Therapies In Herpetic Stromal Keratitis. Mauricio Cerdillo Sarabia, Sr1, R. Velasco Ramos, II, S. Perez Tapia, III, A. Babayyan Sosa, IV, O. Baca Lozada, V, O. Fernando Vásquez, VI, R. Suárez Velasco, V, G. Cortés Sanchez, V, M. Navarro Pena, V. 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.

6168 — 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

6169 — D1029  Clinical and epidemiological characteristics of infectious keratitis at Fundación Banco de Ojos “Fernando Oca del Valle” in Paraguay. Martin M. Rentwich1, M. Bordin2, D. Sánchez di Martino1, A. Ruiz Czapuzano1, W. Martínez Torres2, S. Lithi1, M. Samudio1, N. Fariña2, P. Laspina3, H. Mino de Kaspar1. 1Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; 2Fundación Banco de Ojos “Fernando Oca del Valle”. Instituto de Investigaciones en Ciencias de la Salud, Asunción, Paraguay.

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


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. Nikolie. 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. 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.

6176 — D1036  Reduced Corneal Inflammation By Birch Leave Extract In Combination With Sub-therapeutic Cyclosporin A. Kattrin Wacker1, C. Gründemann1, R. Hube1, T. Reinhard1, J. Schwartzkopff. 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. Steinkasserer1, K. Frisch2, E. Zinner. 1Department of Ophthalmology, University of Cologne, Cologne, Germany; 2Department of Dermatology, University of Erlangen, Erlangen, Germany.

6178 — D1038  Effect Of Rapamycin And IL-2 On Regulatory CD4+CD25+Foxp3+ T Cells In Mice After Allogenic Penetrating Keratoplasty. Qihua Le1, X. Wang1, W. Wang1, J. Xu1. 1Ophthalmology, Eye & ENT Hospital of Fudan University, Shanghai, China; 2Ophthalmology, Eye & ENT Hospital of Fudan University, Shanghai, China.

6179 — D1039  Clinical Similariities 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 Gao1,2, Z. Li1,2, C.W. Smith1,2. 1Leukocyte Biology, 2Ped-Children’s Nutrition Research Center, ’Baylor College of Medicine, Houston, TX.

6181 — D1041  Expression Of Adhesion Molecules During Development Of Conjunctiva-Associated Lymphoid Tissue. Uta Gehlsen1, S. Siebelmann1, M.E. Stern1, J.Y. Niederkorn1. 1Ophthalmology, University Hospital of Cologne, Cologne, Germany; 2Biological Sciences, Allergan, 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. Alattari1, U.H. von Andrian1, P. Hamrah2,3. 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.


*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 377
Thursday Posters

6185 — D1045 In Vivo Confocal Microscopy Of Corneal Langerhans Cells In Systemic Lupus Erythematosus (SLE) Without Ocular Surface Manifestation. Miklos D. Resch1, L. Marsovszky, E. Medgyessi2, A. Balog2, L. Kovacs2, J. Nemeth. 1Dept Ophthalmology, Semmelweis University, Budapest, Hungary; 2Rheumatology Department, University of Szeged, Albert Szent-Györgyi Clinical Center, Faculty of Medicine, Szeged, Szeged, Hungary.

6186 — D1046 Microarray Based Ige Detection In Tears Of Vernal Keratoconjunctivitis Patients. Andrea Leonardi1A, D. Faggian1B, A. La Gloria Valerio1A, F. Piliego1A, L. Motterle1A, M. Plebani1B. 1Neuroscience, Ophthalmology, 2Department of Laboratory Medicine, University of Padova, Padova, Italy.

6187 — D1047 Inhibitory Role of ICOS in Antigen-specific T cell-mediated Ocular Tissue Damage. Misao Terada1A, H. Taniguchi1A, R. Abe2, J. Hortolani2A. 1Division of Lab Animal Science, 2Ophthalmology, Nippon Medical School, Bunkyo-ku, Japan; 3Research Institute for Biological Science, Tokyo University of Science, Noda, Japan.

6188 — D1048 Bone Marrow Derived Dendritic Cells Prevent Corneal Allograft Rejection In The Rat. Thomas Ritter , M. Nosov, A. Ryan, O. Treacy, M. Cregg, G. Fahy, M. Morcos, L. O’Flynn. 1Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 2Universidade Federal de São Paulo, São Paulo, Brazil.


6190 — D1050 Etiology Diversity Of Atypical And Severe Anterior Uveitis. Audrey Fel1, M. Bojanova1, V. Tootou1, P. Le Hoang1, P. Rozenberg2, B. Bodaghi2. 1Ophthalmology, Hospital la Pitié Salpêtrière, Paris, France; 2Virology, Hospital Cochin, Paris, France.

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


6194 — D1054 Emergence Of Pan-drug Resistant Pseudomonas Aeruginosa As A Cause Of Microbial Keratitis. Merle Fernandes4A, A. Pathengay4, N. Kumar4A, C. Cornea and Anterior Segment, 5Ocular Microbiology Service, 6LV Prasad Eye Institute, Visakapatnam, India; 7Retina, Bascom Palmer Eye Institute, Miami, FL.


6197 — D1057 Heterogeneous Vancocin-resistant-Intermediate Staphylococci Isolates from Endophthalmitis. Paulo J. Bispo2, D. Miller1. 1Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 2Universidade Federal de São Paulo, São Paulo, Brazil.


6199 — D1059 Moxifloxacin Superior To Cefuroxime In Reducing Early-phase Adherence Of Staphylococcus Epidermidis To Hydrophobic Intralocular Lenses. Fathalah Benbouzid1, S.A. Basset1, F. Renaud2A, D. Hartmann2, P. Denis1, L. Kodjikian1. 1Ophthalmology, Lyon Croix-Rousse Hospital, Lyon, France; 2Ophthalmology, Saint Roch Hospital, Nice, France; 3Microbiology laboratory, Department of biomaterials and biological interactions, Claude Bernard University, Lyon I, Lyon, France.

6200 — D1060 N-chlootaurine, n-monochloro-deimethyltaurine And N,n-dichloro-dimethyltaurine Are Safe And Effective Bactericidal Agents In Cornea Models. Barbara Toschner1A, E. Schmidt1A, M. Nagl1A, N. Bechrazi1A. 1Ophthalmology, Microbiology, Immsbruck Medical University, Immsbruck, Austria.

6201 — D1061 Therapeutic Effects of Topical Bacteriophage KPP12 Administration on Pseudomonas aeruginosa Keratitis in Mice. Ken Fukuda1B, W. Ishida1B, J. Uchiyama1B, T. Morita1B, Y. Harada1B, T. Sumi1A, S. Matsuzaki1B, M. Daibata1A, M. Fukushina1B. 1Ophthalmology, 2Microbiology and Infection, Kochi Medical School, Nankoku, Japan; 3Kochi Medical School Hospital, Nankoku, Japan.


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

6205 — D1065 Treatment of Numular Keratitis with Intracorneal Ganciclovir. Eduardo Arenas1, A. Miett1. 1ophthalmology, Santa Fe Foundation, BOGOTA, Colombia; 2Asocornea, Bogota, Colombia.

6206 — D1066 In Vitro Effectiveness Of Photodynamic Therapy Against Multi-resistant Pathogens. Katrin Winkler1A, M. Finke1A, J. Wang2, N. Sentmarty2A, T. Eppig2A, H-J. Foth2, D. Hüttenberger1A, A. Langenbucher1A, B. Seitz1A, M. Bischoff1A. 1Department of Microbiology, 2Department of Ophthalmology, Experimental Ophthalmology, Saarland University, Homburg, Germany; 3Physics Department, University of Kaiserslautern, Kaiserslautern, Germany; 4Apocare Pharma GmbH, Bielefeld, Germany; 5Experimental Ophthalmology, Department of Ophthalmology, Saarland University, Homburg/Saar, Germany.


In Vitro Investigation of Riboflavin/UVA-mediated Elimination of Acanthamoeba Castellani. Karim Makdouni, A. Backman, J. Mortensen, S. Crafoord. Portland, OR; Ophthalmology, Emory Eye Center, Decatur, GA.


The Effect of Low Concentrations of Benzonatide Chloride on Acanthamoeba survival. Elmer Y. Tu, M.E. Shoff, C.E. Joslin. Ophthalmology, University of Illinois at Chicago, Glenview, IL; CDRH/SEL/DB, FDA, Silver Spring, MD; Ophthalmology/Vision Sciences, University of Illinois at Chicago, Chicago, IL.


Systemic vs. Combination Antiviral Therapy and Retinal Outcomes in Acute Retinal Necrosis. Stephanie K. cramer, C. Flaxel, S. Yeoh. Ophthalmology, Casey Eye Institute, Portland, OR; Ophthalmology, Emory Eye Center, Decatur, GA.


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

Risk Of Cataract In Persons With Acquired Immune Deficiency Syndrome and Cytomegalovirus Retinitis. Elizabeth A. Sugar, A.T. Lyon, R.A. Lewis, D.A. Jabs, M.H. Heinemann, J.P. Dunn, J.H. Kemper. Studies of Ocular Complications of AIDS Research Group. Biostatistics, Epidemiology, Bloomberg School of Public Health, The Johns Hopkins University, Baltimore, MD; The Sidney Kimmel Comprehensive Cancer Center, Ophthalmology, The Johns Hopkins University School of Medicine, Baltimore, MD; Ophthalmology, Northwestern University, Chicago, IL; Ophthalmology, Medicine, Pediatrics, Molecular and Human Genetics, Baylor College of Medicine, Houston, TX; Ophthalmology, Internal Medicine, Mount Sinai School of Medicine, New York, NY; Ophthalmology, Weill Cornell Medical College, New York, NY; Ophthalmic Oncology Service, Department of Surgery, Memorial Sloan Kettering Cancer Center, New York, NY; Ophthalmology, Epidemiology, Center for Clinical Epidemiology and Biostatistics, The University of Pennsylvania School of Medicine, Philadelphia, PA. Cr

The Best Functional Predictor of HIV Status in Relation to the Retinal Damage. Afsana Karim, I. Kozak, D-U.G. Bartoni, H. Lemas, D. Lustin, J. Chhablani, G. Bartselli, H. Wang, S.P. Azen, W.R. Freeman. UCSD Jacobs Retina Center, Ophthalmology, University of California San Diego, La Jolla, CA; Ophthalmology-Shiley Eye Ctr, Univ of California-San Diego, La Jolla, CA; Graduate School of Public Health, San Diego State University, san diego, CA; Biostatistics, University of Southern California, Los Angeles, CA; Viterco-Retina, Shiley Eye Center, UCSD, La Jolla, CA; Preventive Medicine, USC Keck School of Medicine, Los Angeles, CA; Ophthalmology, UCSD Jacobs Retina Center, La Jolla, CA.


Association between HIV Microangiopathy and Systemic Complications in Patients with AIDS. Yoko Iwasaki, N. Yamamoto, T. Kawaguchi, N. Ozaki, M. Mochizuki, K. Murakami. Ophthalmology, Tokyo Metropolitan Cancer and Infectious diseases Center Komagome Hospital, Tokyo, Japan; Ophthalmology & Visual Science, Tokyo Medical and Dental University, Tokyo, Japan.


Ocular Manifestations in HIV/AIDS Patients with Concurrent Cryptococcal Meningitis. Ninani E. Coyne Kombo, O. Nkomazana, S.H. Forster, R.A. Adelman. Ophthalmology and Visual Science, Yale University School of Medicine, New Haven, CT; University of Botswana School of Medicine, Gaborone, Botswana.


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 Chien, E.L. Bla6ock, L.R. Bush, C.J. Alston, R.D. Dix. Department of Biology, Viral Immunology Center, Georgia State University, Atlanta, GA; Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA.

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. Bla6ock, H. Chien, R.D. Dix. Department of Biology, Viral Immunology Center, Georgia State University, Atlanta, GA; Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA.
6227 — D1087 Characteristics of Suppressor of Cytokine Signaling (SOCS)1 and SOCS3 Expression in Response to Murine Cytomegalovirus (MCMV) Infection During Health and Retrovirus-Induced Immunosuppression (MAIDS). Christine I. Alston1, H. Chien1, E.L. Blalock1, R.D. Divito1. 1Department of Biology, Viral Immunology Center, Georgia State University, Atlanta, GA; 2Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA.


6229 — D1089 Cd4+ Foxp3+Cd25Bright T Regulatory Cells Population In Ocular Sarcoidosis. Alexis Pinel1, A. Mathian1,2, M. Miyara1,2, C. Chapelon-Abric1,2, C. Parizo1,2, D. Boatin1,2, Z. Amoura1,2, G. Gorochov1,2, P. Lehoang1,2, B. Bodaghi1,2,3, 4Ophthalmology, 3Internal medicine, 2Immunology, CHU Pitie-Salpetriere, Paris, France; 1INSERM UMR-S 945, Paris, France; 2U972 INSERM, Paris, France.


6232 — D1092 Clinical Course of Patients with Behcet’s Uveoretinitis that Discontinued Indinavir Therapy. Tatsumi Kiwaguchi1, Y. Iwasaki1, S. Kanda1, S. Sugita1, M. Mochizuki1. 1Ophthalmology, Tokyo Metropolitan Komagome Hospital, Tokyo, Japan; 2Ophthalmology & Visual Science, Tokyo Medical and Dental University, Tokyo, Japan.

6233 — D1093 Anti-DEC205 Mediated Delivery of Self-Antigen to Dendritic Cell Restores Tolerance in Spontaneous EAU. Koju Kano1, C. Martin-Granados1, C. Bohu2, M.E. Wikstrom2, M.A. Degli-Esposti1, R.M. Steinman1, J.V. Forrest1. 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. Caspers1, M. Schwartz2. 1Neurology, Weizmann Institute of Science, Rehovot, Israel; 2Laboratory of Immunology, National Eye Inst/NIH, Bethesda, MD. ☑

6235 — D1095 Alpha-1 Adrenergic Stimulation Exacerbates Acute Ocular Inflammation Through A Mechanism Mediated By Transforming Growth Factor Beta (TGFβ). Paola A. Durand1, Y. Tan1, D. Fatmi1, X. Xia1, E. Suarez1, V.L. Perez1, J.L. Vega2. 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. Relvas1, R. Deswepelaere1, M. Makhouf1, D. Communi2, J-M. Boeynaems2, B. Robaye1, C. Bruyns2, F. Willermain1. 1Ophthalmology, Univ of Brussels-St Pierre Hosp, Brussels, Belgium; 2Univ of Brussels-IRIBHM, Brussels, Belgium.

6237 — D1097 Role of iC3b-CR3 interaction in Experimental Autoimmune Anterior Uveitis. Bharati Matta, P. Jha, P. LeHoang, B. Bodaghi. Ophthalmology, Jones Eye Institute-UAMS, Little Rock, AR.

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

6239 — D1099 DAP-12, a Major Immunomediator, Either Promotes or Suppresses EA U Development. Barbara P. Vistica1, V. Rezende1, M. Tateo2, V. Montalvo2, Reddy1, G. Shi1, L. Nugent1, L. Quigley1, D.W. McVicar1, 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, Xin Wu1, J. Duani2, J.T. Rosenbaum1. 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. Hofnaufer2, J. Dieterle3, M. Blindert4, E. Kremmer2, M.E. Swadzba2, B. Amann2, C.A. Deeg2, M. Ueffing1. 1Department of Protein Science, Helmholtz Center Munich, Neuherberg, Germany; 2Department for Veterinary Sciences, Institute of Animal Physiology, Munich, Germany; 3Centre for Ophthalmallogy, Institute for Ophthalmal Research, Tubingen, Germany; 4Institute for Molecular Immunology, Helmholtz Center Munich, Munich, Germany.

6243 — D1103 Hsa-mir-let 7i Treatment Suppresses Thr4 Mediated Mitochondrial Oxidative Stress In Giant Cell Arteritis. Nursing A. Rao, S. Saraswathy. Ophthalmology, Doheny Eye Institute, Los Angeles, CA.

6244 — D1104 Amelioration of Experimental Autoimmune Uveoretinitis by Inhibition of Toxic AGEs Formation. Zhenyu Dong1,2,3, N. Kitachi1,2,3, D. Iwata1,2,3,4, R. Ando1,2,3,4, J. Fukuhara1,2,3,4, A.M. Lennkov1,2,3,4, A. Kanda1,2,3,4, K. Noda1,2,3,4, S. Ohno1,2,3, S. Ishida1,2,3,4. 1Department of Ophthalmology, Laboratory of Ocular Cell Biology and Visual Science, 2Department of Ocular Inflammation and Immunology, 3Hokkaido University Graduate School of Medicine, Sapporo, Japan; 4Department of Ophthalmology, Health Sciences University of Hokkaido, Sapporo, Japan.


6246 — D1106 Ocular Immune Pathological Analysis in a Murine Model of Anterior Scleritis. Hiroko Taniguchi1, M. Wang2, A. Nakajima1, J. Hori2. 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 Saiz de la Maza1, N. Molina1, L.A. Gonzalez-Gonzalez2, P.P. Doctor2, J. Tauber3, S. Foster1. 1Instituto Clinico Oftalmologia, Hospital Clinico Oftalmologia, Barcelona, Spain; 2Ophthalmology, Massachusetts Eye Research and Surgery Institution, Cambridge, MA; 3Ophthalmology, Bay-Wiew Clinic, Mumbai, India; 4Ophthalmology, Tauber Eye Center, Kansas City, MO; 5Ophthalmology, Harvard Medical School, Boston, MA.
6250 — D1110 Posterior Scleritis and Orbital Mass Associated to Positive Antineutrophil Cytoplasmic Autoantibodies Without Systemic Involvement. Maríà de los Angeles Ramos-Cadena1, G. Aguilar Montes2, M. Ruiz Cruz2. 1Ophthalmology, Hospital General Dr. Manuel Gea Gonzalez, Mexico City, Mexico; 2Ophthalmology, Centro de Investigación de Enfermedades Infecciosas del Instituto Nacional de Enfermedades Respiratorias, Mexico City, Mexico.

6251 — D1111 Uveitis In Patients With Diabetes Mellitus. Martha C. Fuentes, C.G. Sánchez-Balleza, M. Pedroza-Seres. Ocular Inflammation and Immunology, Conval, Mexico, Mexico.


6254 — D1114 In Search Of Intracellular Biomarkers In Uveitis Associated With Juvenile Idiopathic Arthritis (jia). Viera Kalinina Ayuso1A, Viera Viera Kalinina Ayuso1A, A. Gregory1, M. Ponce-Angulo, Jr1A, M. Martinez-Rivera, Sr2, V. Ponce-Angulo, Jr1A, M. Martinez-Rivera, Sr2, J. Gordon1, R.P. Kowalski1. 1Ophthalmology, St. Louis, MO; 2Ophthalmology, The Research Institute, New York, NY.


6256 — D1116 Inhibition Of The Acid Sphingomyelinase/ceramide System Prevents Hallmarks Of Graves Ophthalmopathy. Melissa Meyer zu H. Dyste1, E. Stroeher1, Y. Zhang2, K. Roeck2, J. Fischer2, U. Bercher-Pfannschmidt2, A.K. Eckstein1, E. Gulbins1. 1Department of Ophthalmology, University Hospital Düsseldorf-Essen, Essen, Germany; 2Department of Molecular Biology, University of Duisburg-Essen, Essen, Germany; 3Institute of Pharmacology and Clinical Pharmacology, University of Duiseldorf, Dueseldorf, Germany.


6259 — D1119 In Vitro Activity of ACH-0139586, a Novel Isothiazoloquinazolinone, Moorfloxacin and Gatifloxacin Against Clinical Isolates, Including Methicillin and Fluoroquinolone Resistant. Aron Shapiro1, L. Benel2, A. Whiwick2, D. Salme2. 1Ora, Inc., Andover, MA; 2Eurofins Medinet, Chantilly, VA.

6260 — D1120 A Novel Antiviral Protein RC28. Naibong Yan1, F. Piraino, X. Liu1. 1Ophthalmic 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. Horii3, K. Sasaki3, M. Sakamoto6, K. Miyata2, Y. Hori3. 1Ophthalmology, Tokyo Women's Medical University, Tokyo, Japan; 2Ideta Eye Hospital, Miyazaki, Japan; 3Department of Ophthalmology, Tottori University Faculty of Medicine, Yonago, Japan; 4Ophthalmology, Toho University Sakura Medical Center, Sakura, Japan; 5Ideta Eye Hospital, Kamamoto, Japan; 6Department of Ophthalmology, The Research Foundation for Microbial Diseases of Osaka University, Osaka, Japan; 7Department of Clinical Laboratory, Tottori University Hospital, Yonago, Japan.

6262 — D1122 Prevalence and risk factors of methicillin-resistant Staphylococcus aureus nasal carriage among ophthalmology outpatients in Puerto Rico. Maria H. Berrocal1, V. Lopez1, L.A. Acabá1, A. Acabá1. 1Ophthalmology, University of Puerto Rico, San Juan, PR; 2Bryn Mawr College, Bryn Mawr, PA; 3U. of Puerto Rico, San Juan, PR; 4U. Puerto Rico, San Juan, PR. *CR

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


6265 — D1125 Effect of Simultaneous Treatment of Quinolones and Antifungal Drugs on Fungal-Bacterial Co-Infection. Diane Gabriela Ponce-Angulo, Jr1,4, M. Martinez-Rivera, Sr2, V. Baustista-de Lucio, Sr1,4, A. Rodriguez-Tovar, Sr2, C. Santacruz-Valdez, Sr3,4, A. Climent-Flores, Sr2,3, A. Robles-Contreras, Jr1,4, C. Diaz-Godinez, Jr1,4, E. Felix Diaz-Parga, Jr2, H. Mejia-Lopez, Sr2,3. 1Research Unit / Microbiology and Proteomics, 2Cornella service, 3Institute of Ophthalmology, Mexico, D.F., Mexico; 4Laboratory 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, Jr1, S.S. Samudre1, J.D. Sheppard, Jr1, G.W. Laurie2, R.L. McKown2, P.B. Williams1. 1Physiological Sciences, Eastern Virginia Medical School, Norfolk, VA; 2Virginia Eye Consultants, Norfolk, VA; 3Cell Biology, University of Virginia, Charlottesville, VA; 4Integrated Science & Technology, James Madison University, Harrisonburg, VA.

6267 — D1127 Susceptibility Of Methicillin-resistant Staphylococci Clinical Isolates To Nitrimicin And Other Antibiotics Commonly Used In Ophthalmologic Therapy. Anna Rito Blanco1,2, A. Sudano Roccavo1, V. Papa1, M. Mazzone1. 1Pharmacology Biotechnology Unit - BU Pharma, 2Medical Marketing - BU Pharma, 3Product Portfolio Development - BU Pharma, SIFI 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. Chiamaretti2, H. Nezzar2, B. Mortemousque1, C. Speeg-Schatz3, S. Milazzo1. 1Azithromycin Study Group. 2Ophthalmology, St Victor Center, CHU Amiens, Picardie University, Amiens, France; 3Ophthalmology, CHU Clermont Ferrand, Clermont Ferrand, France; 4Ophthalmology, CHU Bordeaux, Bordeaux, France; 5Ophthalmology, CHU Strasbourg, Strasbourg, France; 6Ophthalmology/Saint Victor Center, CHU Amiens, University Jules Verne, Amiens, France. *CR, P.
6269 — DI129 Increased Antibiotic Resistance Of Ocular Surface Flora After Repeated Use Of Prophylactic Topical Fluoroquinolone Post Intravitreal Injection For Neovascular Age-related Macular Degeneration (amd). Vivian T. Yin1, D. Weisbrod2,3, E. Mandelcorn3,1, C. Schwartz4, R. Kohly5,2, K. Eng6, W-C. Lam1,3, P. Kertes7,8,9,10,11,12 1Department of Ophthalmology, University of Toronto, Toronto, ON, Canada; 2Sunnybrook Health Sciences Center, Toronto, ON, Canada; 3Toronto Western Hospital, University Health Network, Toronto, ON, Canada. *CR, ☁

6270 — DI130 Multicenter Comparison Of Lopetepreln 0.5% vs Prednisolone Acetate 1% in Patients Post-Pachecomuunisfaction with IOL implants. Carlos Buengo1, G. Perez, W. Trattler, J.A. Khell, B. Henderson1. General & Surgical Ophthal, Center for Excellence in EyeCare, Miami, FL; 2Ctr for Excellence in Eye Care, Miami, FL; 3Cornea, Center For Excellence in Eye Care, Miami, FL; 4Ophthalmology/Cornea, Center for Excellence in EyeCare, Miami, FL; 5Boston Eye Surgery and Laser Center, Boston, MA. *CR, ☁


6272 — DI132 Retinal Damage in Severe Chemical Burn and the Use of Inflammimab Therapy. Fabiano Cade1,2, E. Paschalakis, C.V. Regattieri1,2, R. Dana1, C.H. Dohman1. Cornea and Refractive Surgery, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston, MA; 2Cornea and Refractive Surgery, Federal Sao Paulo University, Sao Paulo, Brazil; 3Scheeps Eye Research Institute, Harvard Medical School, Boston, MA.


6274 — DI134 Twenty-Eight Day Microbial Preservative Efficacy of Lopetepreln Etabonate Ophthalmic Ointment, 0.5%; an Unpreserved Ointment with Low Water Activity. Brien C. David, L.S. Gearinger, J. Klingensmith, I.H. Decory, R&D Microbiology, Bausch & Lomb, Rochester, NY. *CR

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

6276 — DI136 Amelioration of Endotoxin-induced Uveitis Treated With An Ikb Kinase Inhibitor, Imd-0354 In Rats. Anton Lennink1, N. Kitaichi1, K. Noda1, R. Ando1, Z. Dong1, K. Namba1, K. Namba1, S. Ohno1, S. Ishida1, S. Kojima1,2,3, D. Ohno1, M. Sato1,2,3, D. Ohno1, M. Nishikawa1,2,3, T. Nishikawa1,2,3, Y. Fujino1,2,3, Y. Yanagi2,3, S. Kobayashi2, K. Tsubota1, Y. Ozawa1,4, Hidenori Almulki2,3, S. Van Grassdorff1A, K. Wouters1B, 2Center for Cell Therapy and Regenerative Medicine, University Hospital, Antwerp, Belgium; 3University Hospital Antwerp, Antwerp, Belgium; 4Center for Cell Therapy and Regenerative Medicine, Antwerp University Hospital, Antwerp, Belgium. *CR

6277 — DI137 Lutein-rich Marigold Extract Induces Gene Expression Of Phase II Antioxidants In The PC12D Neuronal Cells. Seiji Miyake1,2, N. Takahashi1,2, M. Sasaki1,2, S. Kobayashi1, T. Tsutoda1, Y. Ozawa1,4. Laboratory of Retinal Cell Biology, Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 2Wakasa Seikatsu Co., Ltd., Kyoto, Japan. *CR

6278 — DI138 Ocular and Systemic Pharmacokinetics of Lopetepreln Etabonate Gel (0.5%) following Topical Ocular Administration to Rabbits. Shellisse Glogowski, J.W. Proksch, Pharmaceutical R&D, Bausch & Lomb, Rochester, NY. *CR

6279 — DI139 Topical Application Of Inflimixim (Remicade®) In The Treatment Of Corneal Caustication. Takahashi1,2, Y. Fujino1,2, Y. Yanagi2,3, K-H. Sonoda3, S. Kinoshita1A, K. Maruyama1, K. Tsubota1, Y. Ozawa1,4, Hidenori Almulki2,3, S. Van Grassdorff1A, K. Wouters1B, 2Center for Cell Therapy and Regenerative Medicine, University Hospital, Antwerp, Belgium; 3University Hospital Antwerp, Antwerp, Belgium; 4Center for Cell Therapy and Regenerative Medicine, Antwerp University Hospital, Antwerp, Belgium. *CR

6280 — DI140 Identification of The Anti-Inflammatory Annexin-A1 Protein in Tears of Normal Subjects and Association of its Cleaved-Inactive Form with Active Vernal Keratoconjunctivitis Patients. Samia Yazi1, A. Leonard1, V. Calder1, R. Flower1. Molecular Therapy, UCL, Institute of Ophthalmology, London, United Kingdom; 2Medical School, University of Padua, Padua, Italy; 3Biochemical Pharmacology, QMUL, William Harvey Research Institute, London, United Kingdom.

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

6282 — DI142 Genetically Engineered IL-30 (IL27p28) Suppresses Experimental Autoimmune Uveitis. Ren-Xi Wang, C-Y. Yu, R. Mahdi1, C. Egwuagu. Laboratory of Immunology, NEI, Bethesda, MD.

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

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


6286 — DI146 Clinical Experience With Sustained-Release Intravitreal Ciclosporin Implants: A Comparison Between The Fluocinolone Acetinide (Retisert) And Dexamethasone (Ozurdex) Implants In Uveitis. Cheryl A. Arcinue1, C. Foster1, O. Ceroni1, L. Almuluki1. 1Uveitis and Ocular Immunology, Massachusetts Eye Research & Surgery Institution, Cambridge, MA; 2Ophthalmology, Massachusetts Eye and Research Inst, Cambridge, MA.

6287 — DI147 Cytokine Levels In The Vitreous Fluid Of Patients With Ocular Sarcoidosis And Patients With Diabetic Retinopathy. Kenji Nagata1, K. Maruyama1, K. Yoneda1, T. Yoshimura1, K-H. Sonoda3, S. Kinoshita1A, 1Uveitis and Ocular Immunology, Kyoto Prefectural Univ of Med, Kyoto, Japan; 2Ophthalmology, Kyushu University, Fukuoka, Japan; 3Ophthalmology, Yamaguchi University, Ube, Japan; 4Ophthalmology, Kyoto Prefectural Univ of Med, Kamigyo-Ku, Japan.

6288 — DI148 Human Tears Reveal Insights Into Corneal Neovascularization. Nadia Zakaria1, S. Van Grassdorff1, K. Wouters1a, J. Rozema1, N. Cools1, V. Van Tendeloo1, Z. Berneman1, M-J. Tassignon1. 1Ophthalmology, 2Statistics, 3Hematology, 4Center for Cell Therapy and Regenerative Medicine, 1University Hospital Antwerp, Antwerp, Belgium; 2Center for Cell Therapy and Regenerative Medicine, Antwerp University Hospital, Antwerp, Belgium.

6289 — DI149 Errors In Measuring VEGF Concentrations In The Presence Of Anti-VEGF Antibodies By Using ELISA. Hidenori Takahashi1, Y. Fugino1, Y. Yanagi. 1Ophthalmology, Tokyo KoseiNenkin Hospital, Tokyo, Japan; 2Ophthalmology, University of Tokyo, Tokyo, Japan.


6292 — D1152  
Cytokine Profile In Active Ocular Toxoplasmosis. Amanda Rey Torrente, B. Molins, V. Llorens, L. Pelegrín, M. Mesquida, M. Figueras, A. Adín Civera. Ophthalmology, Hospital Clinic Barcelona, Barcelona, Spain.
6293 — 11:15 Tyrlosinase 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'Bryhim1. 1Ophthalmology, Kansas University Medical Center, Prairie Village, KS; 2Pediatrics, University of Kansas Medical Center, Kansas City, KS; 3Ophthalmology, Molecular and Integrative Physiology, Univ of Kansas Medical Center, Kansas City, KS.

6295 — 11:45 Altered Vascular Response in MicroRNA 132-212 Knockout Mice in the Model of Oxygen-Induced Retinopathy. R. White1, A. Symons1. 1Molecular & Integrative Physiology, Univ of Kansas Medical Center, Kansas City, KS; 2Ophthalmology, Univ of Kansas Medical Center, Prairie Village, KS.

6296 — 12:00 Activation of the Endothelin System in Models of Ischemic Retinopathy. Chintan Patel1, W. Zhang2, S. Xu2, S.P. Narayanan3, N-T. Tsai4, W. Caldwell5, R.B. Caldwell1. 1Vascular Biology Center. 2Pharmacology & Toxicology, University of New Mexico, Albuquerque, NM; 3Molecular & Integrative Physiology, Georgia Health Sciences University, Augusta, GA; 4Ophthalmology, The University of Texas Medical Branch, Galveston, TX.

6297 — 12:15 Progressive Central Photoreceptor Damages and Retinal Pigment Epithelium Abnormalities in Oxygen Induced Retinopathy. Zhou Shao1, J. Rivera2, T.E. Zhou1, P. Sapieha1, P. Lachapelle1, S. Chemtob1. 1Pharmacology 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; 4Ophthalmology, McGill U-Montreal Childrens Hosp, Montreal, QC, Canada; 5Pediatrics & Pharmacology, Research Ctr/Hosp Ste Justine, Montreal, QC, Canada.

6298 — 12:30 Nettin-1 Promotes Vascular Regeneration in a Mouse Model of Ischemic Retinopathy. Francois Binet1, G-S. Mawambo-Tagne1, S. Favret1, N. Situras1, N. Tétreault1, A. Cerami2, E. Lapalme2, F. Rezende2, T. Kennedy2, P. Sapieha1. 1Research Center, Maisonneuve Rosemont Hospital, Montreal, QC, Canada; 2Montreal Neurological Institute, McGill University Montreal, QC, Canada.

6300 — 11:15 Decreasing Peripheral Hyperosmolarity With Distance-centre Relatively-plus Powered Periphery Contact Lenses Reduced The Risk Of Progression Of Myopia: A 5 Year Vision Care Study. Brien A. Holden, R.S. White2, A. Symons2,1. 1Ophthalmology, Kansas University Medical Center, Kansas City, KS; 2Vision Cooperative Research Centre, Sydney, Australia; 3College of Health and Science, University of Western Sydney, Sydney, Australia; 4College of Optometry, University of Houston, Houston, TX; 5Zhongshan Ophthalmic Center, Guangzhou, China.

6301 — 11:30 Impact of a Novel Silicone Hydrogel Material on Meibomian Gland Structure. Jason J. Nichols1, K.E. Osborn2, T. Henderson1. 1College of Optometry, University of Houston, Houston, TX; 2Vistakon, Columbus, OH; 3Vistakon, Jacksonville, FL.

6302 — 11:45 A Novel Method of Measuring Tear Evaporation Rates Using Infrared Thermography. Andrea Petznick1, S. Lee2, J. Tan2, U. Acharya2,3, E. Ng4, L. Tong5,1. 1Pediatrics & Ophthalmology, Casey Eye Institute-OHSU, Portland, OR; 2Howard Hughes Medical Institute, Bethesda, MD; 3University of South Carolina School of Optometry, Columbia, SC; 4Laboratory of Immunology, BFlow Cytometry Core, National Eye Institute - NIH, Bethesda, MD; 5Howard Hughes Medical Institute, Bethesda, MD.

6304 — 12:15 Vitrified Collagen Gels with Optimized Material Properties for Repair of Ocular Injuries. Xiaodong Calderon-Colon1, Z. Xiu1, Q. Guo1, J.E. Tiffany2, J.P. Maranchi3, R.L. McCalley4, O. Schein5, J.H. Eliseeff6, M.M. Trexler7. 1Research and Exploratory Development, Johns Hopkins Univ - APL, Laurel, MD; 2Department of Biomedical Engineering, Johns Hopkins University, Baltimore, MD; 3The Wilmer Eye Institute at Johns Hopkins, Baltimore, MD; 4Department of Ophthalmology, Johns Hopkins University, Baltimore, MD; 5Department of Ophthalmology, Johns Hopkins University, Baltimore, MD; 6Johns Hopkins University School of Medicine, Baltimore, MD; 7Columbia University, New York, NY.


6306 — 12:45 A Novel Method to Generate Precut Tissue for Descemet Membrane Endothelial Keratoplasty (DMEK). Bjorn O. Bachmann1, U. Schlötzer-Schrehardt2, M. Börgel2, F.E. Kruse1. 1Ophthalmology, University hospital Erlangen, Erlangen, Germany; 2Deutsche Gesellschaft für Gewebetransplantation (DGFG), Hannover, Germany.

6307 — 11:15 The Role of Interleukin-17A in a Spontaneous Model of Autoimmune Uveitis Elicited by Retina-specific T Cells. Benjamin C. Chao1,2, R. Horai1,4, J. Chen1,4, C. Zárate-Blades1,4, V. Villasmi1,4, C.-C. Chan1,4, R.R. Caspi1,4. 1Laboratory of Immunology, 2Flow Cytometry Core, National Eye Institute - NIH, Bethesda, MD; 3Howard Hughes Medical Institute, Bethesda, MD.

6308 — 11:30 Abundant II-17 T Cells Induced In Immunized C57BL/6 Mice Are Not Autoreactive. Deming Sun1, D. Liang1, A. Zuo2, H. Shao3, H.J. Kaplan1, H. Nian1. 1DVRC-411, Doheny Eye Institute, Los Angeles, CA; 2Ophthalm & Visual Sciences, University of Louisville, Louisville, KY; 3Ophthalm & Vision Science, University of Louisville, Louisville, KY.

Thursday – Papers – 6310 – 6331

3610 — 12:00 Thrombospondin Receptor CD47

3611 — 12:15 ACAAID Tolerogenic APC Induce
Two Types Of CD4+ Treg Cells By Two Different Mechanisms. Rose Mathew, J. Stein-Streilein. Immunology, Schepens Eye Research Institute/ MEEI, Boston, MA.

3612 — 12:30 In vivo Imaging Of Experimental Autoimmune Uveitis disease progression in Cx3cr1-GFP and CD11c-YFP mice. Xiangting Chen1,4, H.R. Chinnery2, J. Kezic1, M. Siddhu4, A. Bernard1,4, J.V. Forrester1, P.G. McMenamin1A. Anatomy and Developmental Biology, 1Monash University School of Medicine, Clayton, Australia; 2School of Medicine and Stem Cell Laboratories, 1Monash University, Clayton, Australia; 3School of Medicine (Optometry) Deakin University, Geelong, Australia; 4Anatomy and Developmental Biology, Monash University & Centre For Eye Research Australia, Sydney, Australia.

3613 — 12:45 The Elevation Of Cd14high16+ Monocytes In Uveitis Patients. Diamond Ling, B. Liu, H.N. Sen, M. Casaday, Z. Li, L. Wei, S. Javad, R.B. Nussenblatt. Laboratory of Immunology, NEI, Bethesda, MD.

Room 305

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

Biochemistry & Molecular Biology

535 Biochemistry and Molecular Biology

Moderators: Michael A Walter and Tonia S Rex


3615 — 11:30 Hmg1-b Induces Apoptosis In Retinal Ganglion Cells And Intraretinal Inflammation By Activation Of Tlr4 And Cytokine Release. Maurice Schollenberg2, H. Melkonyan1, S. Thanos2. 1Department of Ophthalmology, University Hospital Essen, Essen, Germany; 2Institute of Experimental Ophthalmology, University of Muenster, Muenster, Germany.

3616 — 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.

3617 — 12:00 Amyloid Fibril Formation By The Ofllactomedin Domain Of Myocilin. Raquel L. Lieberman1, S.D. Orwig1, C.W. Perry1, L.Y. Kim2, A.C. Turnage2, R. Zhang3, D. Vollrath4, I. Schmidt-Krey5. 1School of Chemistry & Biochemistry, 2School of Biology, 3Georgia Institute of Technology, Atlanta, GA; 4Department of Genetics, Stanford University School of Medicine, Palo Alto, CA.

3618 — 12:15 Clusterin in Age-Related Ocular Exfoliation Syndrome. Jorge Ghio1, I. Doudaevski1, M. Cowman1, J. Liebmann3, C. Tello3, C. Teng3, C. M. Cowman2, J. Liebmann3, C. Tello3, C. Teng3, S.D. Orwig1A, C.W. Perry1A, L.Y. Kim1B, J. Stein-Streilein. Immunology and Stem Cell Laboratories, 1Monash University School of Medicine, Clayton, Australia; 2School of Medicine and Stem Cell Laboratories, 1Monash University, Clayton, Australia; 3Centre for Ophthalmology and Vision Sciences, University of Western Australia, Perth, Australia.

3619 — 12:30 LOXL-1-Associated Pathomechanisms in Exfoliation Syndrome. Katalin Csiszar1, R. Laczko1, K. Molnarne Szauter1, L. Majzlik1, M. Ribelayga2, S.C. Mangel. 1Laboratorio de Optica, Universidad de Murcia, Spain; 2School of Biology, 1Georgia Institute of Technology, Atlanta, GA; 3John A. Burns School of Medicine, University of Hawaii, Honolulu, HI; 4Einhorn Clinical Research Center, New York Eye and Ear Infirmary, New York, NY.

3620 — 12:45 Analysis Of HSP70B’ As A Potential Direct Target Gene Of The FOXC1 Transcription Factor. Yoko Ito1,4, F. Berry4, A. Walter4. 1Medical Genetics, 2Surgery, 1Univ of Alberta, Edmonton, AB, Canada.

Room 315

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

Visual Neurophysiology

536 Horizontal and Amacrine Cells: Structure and Function

Moderators: Z Jimmy Zhou and Bryan W Jones

3621 — 11:15 Retinal Circadian Clock Enhances GABA, Receptor-Mediated Horizontal Cell Feedback to Cones at Night, Compared to the Day. Hee Joo Choi, M. Ishii, Y. Cao, A. Adelaja, C. Ribelayga, S.C. Mangel. Neuroscience, Ohio State Univ College of Medicine, Columbus, OH.


3626 — 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. Atkinson1, D-Q. Zhang2. 1Eye Research Institute, Oakland University, Rochester, MI; 2Department of Physiology and Pathophysiology, Xi’an Jiaotong University School of Medicine, Xi’an, China.

3627 — 12:45 Genetic Modulation of the Ratio of Cholinergic Amacrine Cells in the GCL and INL of the Mouse Retina. Irene E. Whitney1,2, B. Raven1A,2, B.E. Reese1C,1B. 1Molecular, Cellular, and Developmental Biology, 2Neuroscience Research Institute, 3Psychological and Brain Sciences, 1University of California, Santa Barbara, CA.

Palm A

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

Visual Psychophysics & Physiological Optics

537 New Directions for Bifocality, Multifocality and Restoration of Accommodation

Moderators: Jim Schwiegerling and Sanjeev Kasthurirangan

3628 — 11:15 Optimizing Modified Monovision to Improve Binocular Through-Focus Visual Performance. Len Zheleznyak1, R. Sabesan1, S. MacRae1, G. Yoon1. 1The Institute of Optics, 2Flaum Eye Institute, 1University of Rochester, Rochester, NY. *CR

3629 — 11:30 Depth Of Focus With Induced Coma At Different Orientations. Christina Schwarz1, C. Canovas2, S. Manzanera1, P.M. Prieto1, H.A. Weeber1, P.A. Piers1, P. Artal1. 1Laboratorio de Optica, Universidad de Murcia, Murcia, Spain; 2RD&ABB Medical Optics, Groningen, The Netherlands. *CR

3630 — 11:45 Visual Outcomes Following Bilateral Implantation of a Trifocal Intraocular Lens. Sunil Shah1, A.L. Sheppard2, U. Bhatt1, J.S. Wolfsohn1. 1Midland Eye Institute, Birmingham, United Kingdom; 2School of Life and Health Sciences, Aston University, Birmingham, United Kingdom. *CR

3631 — 12:00 Curvature Changing Accommodating IOIL... Jim Schwiegerling, N. Savidis, S. McCafferty. Optical Sciences, University of Arizona, Tucson, AZ. *CR


6334 — 12:45 Range of Vision Provided by Dual-Optic Accommodating Intraocular Lens. Sanjeev Kasthurirangan1, L.G. Vargas2, V. Bohorquez3, R. Alarcon3. 1Department of Ophthalmology, Medical Center, Charlottesville, VA; 2Optometry, University of Houston, Houston, TX; 3Instituto de Optica, CSIC, Madrid, Spain.


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. Butra, N.N. Butra, 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. Mcloone1, C.L. Willoughby1, S.P. Christiansen2, V.E. Das3, 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 Peto and Gavin S Tan

6342 — 11:15 Retinal Microvascular Signs and 5-year Incidence of Stroke: The Singapore Malay Eye Study. Carol Y. Cheung1,2A, W. Tay1, M. Ikrham1,2, E. Tai1, T.Y. Wong1,2. 1Singapore Eye Research Institute, Singapore, Singapore; 2Department of Ophthalmology, 3Department of Medicine, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore.


6345 — 12:00 RAAB+DR - Rapid Assessment of Blindness Including Diabetes: Results of a New Population-based Survey Method in Chiapas (Mexico), Cape Town (South Africa), and Taif (Saudi Arabia). David B. Yorston1,2, S. Polack3, H. Kuper3, N. Cockburn3, P. Gomez3, M. Rabiu3. 1Tennent Institute of Ophthalmology, Kellogg Eye Ctr, Univ of Michigan, Ann Arbor, MI; 2Department of Ophthalmology, University of Sydney, Sydney, Australia; 3Singapore Eye Research Institute, Singapore, Singapore; 4Department of Ophthalmology, University of Sydney, Sydney, Australia; 5Department of Epidemiology and Public Health, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore.

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 Turpin1, S. Colman1, J.J. Saner3, N.M. Bressler1, R. Varma1, P. Lee1, C. Dollan1, J. Ward1, L. Yau1. 1Genentech, South San Francisco, CA; 2Retina 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, *CR

6347 — 12:30 Longitudinal Changes In Retinal Vascular Caliber Measurements In Children And Its Relationship With Cardiovascular Risk Factors. Emilí D. Kaurinavat1, N. Cheung3, W.Tay3, C.Y. Cheung2, P. Mitchell2, S-M. Saw3, T.Y. Wong4. 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. Friedman1B, H.A. Quigley2B, E.W. Gower2. 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.

6351 — 11:45  A Prospective Randomized Clinical Trial of Selective Laser Trabeculectomy versus Argon Laser Trabeculectomy in Open Angle Glaucoma and Ocular Hypertension Secondary to Pseudoxfolliation. Francie F. Si1, S. Kent1, C.M. Hutnik1, K. Damji2, P. Harasymowycz3, W.G. Hodge4, Y.I. Pav1, A. Crichton5. 5Ophthalmology, University of Western Ontario, London, ON, Canada; 4Ophthalm & Vis Sciences, University of Toronto, Toronto, ON, Canada; 3Ophthalmology, University of Alberta, Edmonton, AB, Canada; 2Ophthalmology, University of Montreal, Montreal, QC, Canada; 1Ophthalmology, 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. Jonckx1, S. Van de Velde1, K. Hollanders1,4, D. Sijnave1,2, E. Vandewalle1,2, L.K. Moons1,2, J-M. Stassen1,2, I. Stalmans1. 1Lab of Ophthalmology, 2Biology Dept, Zoological Inst, 3KU Leuven, Leuven, Belgium; 4ThromboGenics NV, Leuven, Belgium. *CR  🅱️


6355 — 12:45  Three Year Results of the Ahmed Baerveldt Comparison (ABC) Study. Donald L. Budenz1, K. Barton1, W.J. Feuer1, J.C. Schiffman1, V.P. Costa2, D. Godfrey3, Y.M. Boys4, Ahmed Baerveldt Comparison Study Group. 1Ophthalmology, University of North Carolina, Chapel Hill, NC; 2Gluacoma Service, Moorfields Eye Hospital, London, United Kingdom; 3Biosciences, Univ of Miami-Basecom Palmer, Miami, FL; 4Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 5Ophthalmology, University of Campinas, Sao Paulo, Brazil; 6Gluacoma Associates of Texas, Dallas, TX; 7Ophthalmology & Vision Sciences, University of Toronto, Toronto, ON, Canada. *CR  🅱️

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

541 Retinal Detachment III

Moderators: Stanislaw Rizzo and Howard F Fine

6356 — 11:15  Outcomes of Scleral Buckle Removal Combined With Prophylactic Laser Retinopexy. Mohammed Khuthaila1, M. Rasoul1, M. Spir1, S.J. Gang1, M. Greve1, M. Tennant1, J. Hsu1. 1Retina, Wills Eye Institute, Philadelphia, PA; 2Ophthalmology, University of Alberta, Edmonton, AB, Canada.


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 Gaya1, J. Arruga Ginebrada1, 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. Pool1, M.H. Abdel-Rahman2, A.J. Fischer3. 1Ophthalmology, 2Ophthalmology and Division Human Genetics, 3Neuroscience, Ohio State University, Columbus, OH.

6361 — 12:30  Protective Role of Soluble FasL in Photoreceptor Cell Loss. Dimosthenis Mantopoulos1, Y. Murakami2, G. Trichonas3, M.S. Gregory-Ksander4, D. Cestari5, B.R. Ksander4, D. Vavvas1. 1Retina, 2Neuro-ophthalmology, 3Massachusetts Eye & Ear Infirmary, Harvard, Boston, MA; 4Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 5Cleveland Clinic, Cleveland, OH; 6Schepens Eye Research Institute, Harvard Medical School, Boston, MA.

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, A.J. Hallak1,2, C.E. Joslin1,2, 3Department of Ophthalmology, Seoul National University, Republic of Korea; 4Department of Ophthalmology, Rhee, K. Choi. 

6364 – A2 Evaluation of a Novel Optic Disc Grading Software for use in Population-based Studies. Yih Chung Tham1,2, C-L. Cheung1,3, T. Wong1,2, M. Baskaran1, J. Liu1, B-H. Lee1, J. Wang1, P. Mitchell1, T. Aung1, C-Y. Cheng2, 3Singapore Eye Research Institute (SERI), Singapore National Eye Centre, Singapore, Singapore; 4Department of Ophthalmology, Yoon Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 5Centre for Quantitative Medicine, Office of Clinical Sciences, Duke-NUS Graduate Medical School, Singapore, Singapore; 6Institute for Infocomm Research (I2R), Agency for Science, Technology and Research (A*Star), Singapore, Singapore; 7Department of Ophthalmology (Centre for Vision Research), Westmead Hospital, University of Sydney, Sydney, Australia.

6365 – A3 Evaluation of Depression in Newly Diagnosed Patients of Glaucoma Before and After Starting Ocular Hypotensive Therapy. Neelima Aron1, V. Arora1, R. Sagar2, V Sreenivas2, A. Rathi2, S. Kumar2, M. Wadhvani2, T. Dada2. 1Dr R P Centre for Ophthalmic Sciences, 2Department of Psychiatry, 3Department of Biostatistics, 4All India Institute of Medical Sciences, New-Delhi, India; 5Department of Ophthalmology, Government Medical College, Chandigarh, India.

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


6368 – A6 Relationship of Structural and Functional Asymmetry to Sleep Position in Primary Open Angle Glaucoma. Eberchii Nivogi1, S. Thomas1, C. Hamill1, I. Marcus2, N.A. Loewen3. 1Ophthalmology, 2Ophthalmology and Visual Science, 3Ophthalmology & Visual Science, Yale University School of Medicine, New Haven, CT; 4Ophthalmology, Yale School of Medicine, New Haven, CT.

6369 – A7 Glaucoma Patient Day: Involving Patients, Improving Care, Prioritizing Research. Ananth C. Viswanathan1, R. Mathew2, S. Gillani2, L. Ramskold2, C. Bunce1, N. Okhravi1. 1Glaucoma Service, NIH Biomedical Research Centre for Ophthalmology, Moorfields Eye Hospital NHS Foundation Trust and UCL Institute of Ophthalmology, London, United Kingdom; 2Glaucoma Service, 3Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom; 4UCL Medical School, London, United Kingdom.


6371 – A9 Profile of Patients Assisted during the 2011 World Glaucoma Week in Araguai - Minas Gerais - Brazil - fabia f. nogueira1, G.E. Carlos1, D.R. Martins1, G.R. Cunha1, M.S. Arcieri1, N.B. Ramos1, P.E. Rosa1, R.S. Arcieri1, R.L. Pereira1, E.S. Arcieri1, R. Ribeirao Preto, Brazil; 2School of Medicine of Ribeirao 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. Jnapiya. 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, R.A. Bilionick2, H. Ishikawa1, G. Wollstein1, J.S. Schuman1, 2UPMC 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


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). Tanu Dadda1, V. Arora1, S.K. Gupta3, V. Sreenivas2, P. Vashist4, T. Agarwal4, A. Pande4. 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. Wu2, M. Torres2, S.P. Azemi3, B.A. Francis4, V. Chopra2, B.B. Nguyen1, R. Varna1, 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. Sheppler2, C. VanAlstine3, S.K. Gardiner4, S.L. Mansberger1. 1Discoveries In Sight Laboratories, 2Devers Eye Institute, Portland, OR.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – † Refer to Program Number in the Clinical Trial (CT) Registration Index – © Travel Grant Awardee
Lin2.
6386 A Possible Link Between Glaucoma And Breast Hospital Population. Glaucomatous Disease Severity in a County Compliance with Recommended Follow-up and Degeneration Is Higher Than Predicted From The Patients Presenting Retinal Vein Occlusions Adams-Huet1B, K. Kooner1A.

6387 – 6388 Systemic Illnesses In Glaucoma: A Possible Link Between Glaucoma And Breast Cancer? Felse May Barte1, S. Mufahne1, B. Adams-Huet1B, K. Koone1B. Ophthalmology, 3Clinical Sciences, 4University of Texas Southwestern Medical Center, Dallas, TX.


6391 – 6392 Direct Cost Of Glaucoma Treatment For Patients With Primary Angle Closure Glaucoma Over 10 Years. Kailing Tong1, H.M. Hoon1, D.T. Quek1, V.W. Wang2, E.L. Lamourex, IP12, T. Aung2. Ophthalmology, Singapore National Eye Centre, Singapore; 3Statistica(Admin), Singapore Eye Research Inst, Singapore, Singapore; 4Center for Health Services Research, Singapore Health Services, Singapore; 5Ophthalmology, University of Melbourne, Melbourne, Australia; 6Singapore Eye Research Institute, Singapore National Eye Centre, Singapore; 7Glaucoma, Singapore National Eye Center, Singapore, Singapore.


6397 – 6398 Magno- And Dorsal Stream Processing Decline Slower Than Parvocellular Performance In Normal Aging. Maria F. Loureiro1, C. Mateus2, B. Oliveira2, R. Lemos2, A. Reis3, M. Castelo-Branco4. Ophthalmology, IBIL-Faculty of Medicine-University of Coimbra, Coimbra, Portugal; 5Ophthalmology, University Hospital of Coimbra, Coimbra, Portugal.

6399 – 6400 Cone Isolating Electrophoretograms In Individuals With A Mutant Opsin Allele Associated With Cone Dystrophy. James A. Kuchenbecker1, S.H. Greenwald1, J. Carroll2. Ophthalmology, 2Retinal Diseases, Chicago, IL.

6401 – 6402 Color vision of female carriers and color vision deficiency subjects evaluated with the Cambridge Colour Test. Daniela M. Bonci1, M. Neitz2, J. Neitz1. Ophthalmology, University of Washington, Seattle, WA; 3Ophthalmology, 4Cell Biology, 5Medical College of Wisconsin, Milwaukee, WI; 6Chicago Lighthouse for People Who Are Blind or Visually Impaired, Chicago, IL; 7Ophthalmology and Visual Sciences, University of Illinois - Chicago, Chicago, IL; 8The Pangere Center for Hereditary Retinal Diseases, Chicago, IL.


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

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


6411 — A304 Neuroprotective Effects Of Erythropoietin In Mouse Models With Retinal Degeneration. Jasmin Balmer1, M. Tschopp1, M. Menke1, M. Gassmann1, S. Wolf, 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. Pavlina A. Tsokai1A, I. Charalampopoulos1A, A. Gravanis1B, M.K. Tsilimbaris1A. 1Neurology & Sense Organs, 2Pharmacology, 1University of Crete, Heraklion, Crete, Greece; 3Ophthalmology-Research Acct, University of Crete, Heraklion, Greece.

6413 — A306 The Effect Of Ketone Bodies On The Synthesis Of Kynurenic Acid In Bovine Retinal Slices. Tomasz Zarnowski1, M. Tulidowicz2A, T. Choragiewicz1, R. Robert1, T. Kock1, W. Turski2A. 2Dept of Ophthalmology, 1Dept of Pharmacology and Toxicology, Medical University Lublin, Lublin, Poland.

6414 — A307 Neuroprotective Effects Of Sirna, Targeted Caspase9, And Ateloecollagen Complex On Rat Retinal Damage Induced By Transient Ischemic Injury. Shinichiro Ishikawa1, A. Hirata1, J. Nakabayashi1, R. Iwakiri1, S. Okinami1. 1Saga Univ Faculty of Medicine, Saga, Japan; 2Saga Memorial Hospital, Saga, Japan.

6415 — A308 Subretinal Electrical Stimulation Preserves Visual Acuity In Dystrophic RCS rats. Vincent T. Ciavatta1A, M.H. Aung1A, T.S. Obertone1B, J.K. Vous1, M.T. Pardo1B, A. Rehab R&D Center of Excellence, Atlanta VA Medical Center, Decatur, GA; 2Ophthalmology, Emory University, Atlanta, GA.

6416 — A309 Neuroprotection And Neurotoxicity Of The Sustained Intracocular Delivery Of Gdnf In Retinal Degeneration. Elodie Touchard1, P. Heiduschka2, M. Berdugo1, M. Kowalczuk1, P. Bigey3, S. Chahory4, C. Gandolphe1, F.-J. Jean1A, F. Behar-Cohen1A. INSERM UMRS 872, Paris, France; 2Univ Eye Hosp Muenster, Muenster, Germany; 3CNRS UMR8151, Paris, France; 4Ecole Nationale Vétérinaire d'Alfort, Maisons-Alfort, France.

6417 — A310 Increased Susceptibility to Retinal Stress in Mice Lacking Sigma Receptor 1 (σR1). Youn Ju Ha1A, A. Saut1A, C. Williams1A, E. Zorrilla2, V. Ganapathy1D, S.B. Smith1C. 1Scripps Research Institute, La Jolla, CA; 2University of California Irvine, Irvine, CA; 3Dorris Neurological Institute, The Scripps Research Institute, La Jolla, CA.

6418 — A311 Arginase2 Deficiency Reduces Hypoxia-induced Retinal Neurodegeneration through the Regulation of Polyamine Metabolism. S. P. Narayanan1A, J. Savanpradit1A, Z. Xie1A, T. Lentiats1A, N. Putluri2, A. Seekum2, R.W. Caldwell1B, R.B. Caldwell1B, 4Vascular Biology Center, 3Department of Pharmacology and Toxicology, 1Georgia Health Science University, Augusta, GA; 4Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX; 5VA Medical Center, Augusta, GA.

6419 — A312 The Protective Effects Of Brimonidine For ARPE-19 And Müller Cells Exposed To Hydroquinone In Vitro. Mohamed Tarek1, C.A. Ramirez1, M. Chwa2, A. Limb3, B.D. Kuppermann1A, C.M. Kenney1A. 1Ophthalmology, Gavirn Herbert Eye Institute, Irvine, 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. Xiyun Li1, A. Luo2, X. Xia3, Z. Wang3, P. Chen3, R. Wen4. Bascom Palmer Eye Institute, University of Miami, Miami, FL.

6422 — A315 Quantum Dots As Neuroprotective Factor In A Model Of Retinal Photoreceptor Degeneration. Raul Velaz-Montoya1A, A. Montemar1A, R. Brate1A, C.R. Stoldt1A, J.L. Olson1A. 1Ophthalmology, University of Colorado Health and Science Center., Aurora, CO; 2Rocky Mountain Lions Eye Institute, Aurora, CO; 3Mechanical Engineering, University of Colorado Boulder, Boulder, CO. *CR

6423 — A316 Up-regulation Of Soluble Amyloid Beta And Down-regulation Of Soluble RAGE In The Vitreous Of Age-related Macular Degeneration Patients. Frances Fan1B, A. Montemar1A, S. Rossit1A, P. Lamotte1B, F. Facchiano1C, G. Rampidis1B, M. Bartoli1A. 1Ophthalmology, 2Pharmacology and Toxicology, Georgia Health Sciences University, Augusta, GA; 3Experimental Medicine and Pathology, University of Rome La Sapienza, Rome, Italy; 4Hematology and Oncology, Istituto Superiore Di Sanita, Rome, Italy; 5Fondazione GB Bietti, Rome, Italy.


4626 — A319 DHA Restores HNE And PDE5 By Inhibiting Oxidative Damage In RPE At High Glucose Levels. Emma Arnal1, S. Johnsen-Soriano2, M. Miranda2, A. Navea1, J. Romero1,2. 1FOOM, Valencia, Spain; 2Dpto. Ciencias Biomédicas, UCH-CEU, Moncada, Spain; 3Facultad de Medicina, UCV, Valencia, Spain.

4627 — A320 Transferrin Delivery In The Eye Protects Photoreceptors From Light-Induced Retinal Degeneration. Emilie Picard1,2, M. Berdugo1,2, M. El Sanharawi1, J-C. Jeanny1,2, Y. Courtois1,2. F.F. 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, Universite Paris Descartes. INSERM UMR872, Paris, France.

4628 — A321 Iron Chelation Protects Against Murine Retinal Degeneration Induced Through Diverse Mechanisms. Joshua L. Dutuadie1,3, M. Hadzialmetovic1, D. Song1, Y. Song1,2, Y Li1,2, S. Greco1,2, S. Chu1, J. Connolly2, M. Spino2. 1EM Kirby Ctr/Ophthalmology, 2Dept of Ophthalmology, 3University of Pennsylvania, Philadelphia, PA; 4EM Kirby Ctr, Scheie Eye Institute Univ of Penn, Philadelphia, PA; 5Dept of Ophthalmology, Peking Union Med College Hosp, Beijing, China; 6ApoPharma, Inc., Toronto, ON, Canada. *CR

4629 — A322 Iron Accumulation In Animal Models Of Genetic Retinal Degeneration: Human Transferrin As A Protector For Photoreceptors. Jean-Claude P. Jeanny1, L. Jonet2, M-H. Vesvre3, C. Sergeant1, F. Guillou1, F.F. Behr-Cohen2, C. Yves1,2, E. Picard2. 1UMRS 872 team 17, INSERM Centre des Cordeliers, Paris, France; 2UMRS 872 team 17, Université Pierre et Marie Curie et Université Descartes, Paris, France; 3UMR 5084, Nuclear and Bio-environmental Chemistry, CNRS, Bordeaux, France; 4UMR 6175, Physiologie de la Reproduction et des Comportements, INRA, CNRS, Université de Tours, Paris, France.

4630 — A323 TUDCA Prevents Microglia Activation In The P23H Rat Retina. Laura Fernandez-Sanchez1, A. Noailles1, I. Pinilla1, J. Martin-Nieto1, P. Lax1, N. Cuencas2. 1Physiology, Genetix & Microbiolology, University of Alicante, Alicante, Spain; 2Ophthalmology, University Hospital Lozano Blesa, Aragon Health Sciences Institute, Zaragoza, Spain.


4632 — A325 Fixation Stability and Central Retinal Sensitivity after Intravitreal Autologous Bone-Marrow Stem Cells for Hereditary Retinal Dystrophy. Rubens C. Siqueira1, A. Messias2, J.C. Vollaret3, K.V. Messias1, R.S. Arcieri1, R. Jorge2. 1Retina, 2Bone Marrow Transplantation, 3Sao Paulo University, Ribeirao Preto, Brazil. *


4634 — A327 A Submicrovolt Focal ERG Technique for Evaluating Macular Function in Stargardt/FD Dystrophy: Clinical Assessment of Test Reliability. Benedetto Falsini1, M. Piccardi1, D. Marangoni1, A. Minnella1, M. Bertelli1, B. Falsini1. 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.

4635 — A328 The Expanded Clinical Spectrum of Enhanced S-cone Syndrome. Suzanne Yee1,2, S.H. Tsang1, L.A. Barbazetto1, R. Allikmets2, L.A. Yannuzzi1,2. 1Ophthalmology, Columbia University, New York, NY; 2Vitreous Retina Macula Consultants NY, New York, NY; 3LuEsther T. Mertz Laser Center, 1Univ of California, Irvine, Irvine, CA; 4Ophthalmology, University of California San Diego, La Jolla, CA; 5McGill Ocular Genetics Laboratory, McGill University Health Centre, Montreal, QC, Canada; 6Ophthalmology/Hamilton Eye Institute, Univ Tennessee Health Sci Ctr, Memphis, TN; 7Human Genetics, Raboud Univ Nijmegen Med Ctr, Nijmegen, The Netherlands; 8Ophthalmology, Erasmus Medical Center, Rotterdam, The Netherlands.


4637 — A330 Retinal Degeneration and Microglial Activation in Mouse Models of Neuronal Ceroid Lipofuscinoses. Myriam Mirza1, C. Volz1, L. Woltering1, C. Schaller1, H. Jägle2, T. Langmann1. 1Institute of Human Genetics, University of Regensburg, Regensburg, Germany; 2Department of Ophthalmology, University Eye Clinic Regensburg, Regensburg, Germany.

4638 — A331 Modeling Photoreceptor Interactions in the Presence of Retinitis Pigmentosa. Erika T. Camacho, S. Wirkus. Division of Math and Natural Sciences, Arizona State University, Glendale, AZ.

4639 — A332 Early S Cone Loss And L/m Cone Opsin Delocalization In The Canine Model Of Rpe65 Deficiency. Daniela Klein1, A. Mendes-Madeira1, B. Lorenz1, F. Rolling1, S. Haverkamp1, K. Stieger1. 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.

4640 — A333 Degenerative Changes At The Rod Photoreceptor Synaptic Ribbon In Aging Dba2/j Mice. Michael Scholz1, M. Fuchs2, J. Atorff1, R. Enz1, J.H. Brandstatter1. 1Anatomy 2, 3Biology, 4Biochemistry, 5Department of Biology, 6University of Erlangen-Nuremberg, Erlangen, Germany; 7Ophthalmology, University Hospital Erlangen, Erlangen, Germany.


4643 — A336 Retinal Histopathology in Eyes from a Patient with Autosomal Dominant Retinitis Pigmentosa caused by the Pro23His Rhodopsin Mutation. Mary E. Rayborn1,4, V.L. Bonilha1,4, B.A. Bell1,4, M.J. Mariano1,4, G.J. Pauer1,4, C.D. Beight1,4, E.J. Traboulssi1,4, S.A. Hagstrom4, J.G. Hollyfield1,4. 1Ophthalmology, 2Center for Genetic Eye Diseases, 3Cole Eye Inst/Cleveland Clin Lerner Coll Med, Cleveland, OH.

4644 — A337 Retinal Histopathology from a Patient with Autosomal Recessive Retinitis Pigmentosa caused by EYS Mutations. Meghan J. Mariano1, V.L. Bonilha1, M.E. Rayborn1, B.A. Bell1, G.J. Pauer1, C.D. Beight1, J. Jiang1, E.J. Traboulssi1, S.A. Hagstrom4, J.G. Hollyfield1. 1Ophthalmic Research, Cole Eye Institute, Cleveland Clinic, Cleveland, OH; 2Cayese Eye Institute Molecular Diagnostics Laboratory, Oregon Health Science University, Portland, OR.
6445—6463 – Thursday – Posters

**Hall B/C  A371-A388**

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

**Retina**

**545 Retinitis Pigmentosa III**

**Moderator: Hendrik P Scholl**


6446 — A372  Role of ER Stress-Induced Caspase3 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 Proinsulin On Vision And Retinal Structure In The Rd10 Mouse Model Of Retinitis Pigmentosa. Enrique J. de la Rosa1, N. Forns2, M. Marchena1, A. Hernandez-Pinto1, R. Steel1, Zieger1A, C. Schubert1A, P. Uhrin1B, P.K. Ahnelt1A. University of Alcala, Alcala de Henares, Spain; 3ProRetina Therapeutics SL, Madrid, Spain; 4CBA TEG, Universitat Autònoma 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, B. Rossmiller1A, W.W. Hauswirth1, A.S. Levin1. Molecular Genetics & Microbiology, University of Florida, Gainesville, FL; 2Department of Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX. *CR

6449 — A375  Mpp3 is Required for Maintenance of Adherens Junctions in the Retina during Light Exposure. Jacobs J. Duddok, A. Sanz Sanz, D. Lundvig1 V. Sotilhingam1, M. Garcia Garrido1, N. Tanimoto2, J. Klooster1, M. Janrich1, M. Seeliger1, W. Hauswirth1. Neurovascular Medicine, Netherlands Inst for Neurosci, Amsterdam, The Netherlands; 2Division of Ocular Degeneration, Ctr Ophthalm Instr Ophthalmic Research, Tuebingen, Germany; 3Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX.

6450 — A376  Altered Fractalkine Homeostasis In Rd10 Degradering Mouse Retina. Marina Zieger1, C. Schubert1A, P. Uhrin1B, P.K. Ahnelt1A. Neurophysiology and Neuropharmacology, Vascular Biology and Thrombosis Research, Medical 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 Rpgre gene. Jutta U. Schiegel1, D. Rolf1, M. Bergmann2, B. Lorenz3, K. Stieger4. 1Department of Ophthalmology, 2Department of Veterinary Anatomy, 3Justus-Liebig-University Giessen, Giessen, Germany.

6452 — A378  A Knock-in Mouse Model of Human Rpgre G173R Mutation Exhibits Retinal Dysfunction and Reduced Rpgre Protein Levels. Zhijian Wu, S. Mookherjee, S. Hiriyanva, R. Rachel, T. Li, L. Dong, A. Swaroop, P. Colosi. NNRL, NIH/NEI, Bethesda, MD.

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. Manhiom1, M. Miura1, 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. Gemma Esquivel1, P. Lu1, L. Fernandez-Sanchez1, A. Noailer1, J. Pinilla1, N. Cuevas1. 1Physiology, Genetics and Microbiology, University of Alicante, Alicante, Spain; 2Ophthalmology, Universitary Hospital Lozano Blesa, Zaragoza, Spain.


6456 — A382  Cbr1 And Cbr2 Controls Cell Division During Retina Development. Lucie P. Pellissier1, C.H. Alves1, D. Lundvig1, M. Garcia-Garrido1, V. Sotilhingam1, N. Tanimoto2, F. Richard1, A. Le Bivic1, M. Seeliger1, W. Hauswirth1. Neuromedical Genetics, Netherlands Inst for Neurosci, Amsterdam, The Netherlands; 2Division of Ocular Neurodegeneration, Institute for Ophthalinic 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. Lewin2, M.S. Gorbatyuk1. 1Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX; 2Molecular Genetics & Microbio, University of Florida, Gainesville, FL.

6458 — A384  Effects of Chlorin e6 on Retinitis Pigmentosa Rhodopsin Mutants in vivo. Fernanda Balem1,2, P.S. Akamine1, G.L. Ioshimoto1, B.V. Nagy1, D.F. Ventura1, J. Klein-Seetharaman1, D. Hamassaki1. 1Cell and Developmental Biology, 2Experimental Psychology, University of Sao Paulo, Sao Paulo, Brazil; 3Structural Biology, University of Pittsburgh, Pittsburgh, PA.

6459 — A385  siRNA preservation in rapidly progressing autosomal dominant retinitis pigmentosa, Brian P. Rossmiller1, A.S. Levin12. 1Molecular Genetics & Microbiology, 2Molecular Genetics & Microbio, University of Florida, Gainesville, FL; 3Department of Molecular Genetics and Microbiology, 4Department of Molecular Genetics and Microbiology, 5University 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 Lin1A, K. Wang1A, M.B. Youdim1. 1Anatomy, Eye Institute, 2Anatomy, University of Hong Kong, Hong Kong; 3Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel.

6462 — A388  Analysis Of Photoreceptor Abnormality In Guy2d (atj/+) Transgenic Pigs. Corinne Kostic1, T. King1, C. Sylvia1, S. Philippe1, S. Lillira1, C. Sarks1, J. Mallet1, Y. Arsenijevic1, B. White1. 1Gene Therapy & Stem Cell Biol, Jules-Gonin Eye Hosp, Unv Lausanne, Lausanne, Switzerland; 2Division of Developmental Biology, The Roslin Institute, University of Edinburgh, Scotland, United Kingdom; 3NewVexts, Paris, France; 4Team of Biotherapy and Biotechnology, CRCIM, 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.

*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 392
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. Kang⁴, H. Shin⁴, Y. Lee³, A. Hussain⁴. 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 oxysterol, 27-hydroxycholesterol, disrupts Estrogen Receptor and Liver X Receptor signaling in Retinal Pigment Epithelial Cells. Bhanu C. Dasari, O. Ghrivi. Pharmacology Physiology & Therapeutics, Univ of North Dakota, Grand Forks, ND.


6489 — A415 Identifying the Roles of Interferon-Gamma Inducible Chemokines in Progression of Age-related Macular Degeneration (AMD). Syeda F. Ahsar¹, D. Czyg³, A.D. Proia², M.T. Malik¹, P. Bev³, K. Lashkari¹. ¹Scheepens Eye Research Institute, Massachusetts Eye and Ear, Department of Ophthalmology, Harvard Medical School, Boston, MA; ²Department of Pathology, Duke University Medical Center, Durham, NC.


6491 — A417 Reactive Oxygen Species and p2X receptors are critical for Alu RNA induced RPE degeneration caused by NLRP3 inflammasome. Nagaraj Kerur¹, V. Tarallo², M. Aihwa Liu². ¹Cell and Developmental Biology, University of North Carolina, Chapel Hill, NC; ²Cellular and molecular medicine, Centre de Investigaciones Biologicas-CSIC, Madrid, Spain; ³Centre de Biologia Molecular CSIC-UMAM, Madrid, Spain; ⁴Centro de Nacional de Investigaciones Cardiovasculares, Madrid, Spain.

6492 — A418 8-CPT-2-O-Me-cAMP, a Rap1 activator, suppress laser-induced CNV in Mice. Eiichi Nishimura¹, M. McCloskey², Y. Jiang³, G.W. Smith⁴, H. Wang⁵, E.S. Witcher⁶, R. Koide⁶, M.E. Hartnett⁷. 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. Balcerkova², J.M. Samartin³, T. Suarez⁴, G. Terrados⁴, B. Escudero², A. Bernad², L. Blanco², P. de la Villa³, E. de la Rosa³. ¹Cellular and molecular medicine, ²Centre de Investigaciones Biologicas-CSIC, Madrid, Spain; ³Centro de Biologia Molecular CSIC-UMAM, Madrid, Spain; ⁴Centro de Nacional de Investigaciones Cardiovasculares, Madrid, Spain; ⁵Physiology, University of Alcala, Alcala de Henares, Spain.

6494 — A420 Ginseng Mediated Improvement In The Hydraulic Conductivity Of Human Bruch's Membrane: Potential For Preventive Therapy In AMD. Cheul Muu Sim¹, J. Seok¹, M. Kang¹, Y. Shin¹, H. Shin¹, Y. Lee³, A. Hussain³. ¹Neutron Science Department, Korea Atomic Energy Research Institute, Daejeon, Republic of Korea; ²GBioMix, Jeonju-si, Republic of Korea; ³Physics, JeonBuk University, Jeonju, Republic of Korea; ⁴Division of Molecular Therapy, UCL Institute of Ophthalmology, London, United Kingdom. *CR

6495 — A421 The Kinetics of Retinal Gene Expression Profile of Col2/Cx3cr1 Double Deficient Mice on rd8 Background. De Fen Shen¹, Y. Wang¹, K. Jin¹, J. Tao¹, M. Xiang¹, C-C. Chan¹. ¹Laboratory of Immunology, National Eye Inst/NHI, Bethesda, MD; ²Center for Advanced Biotechnology and Medicine, University of Medicine and Dentistry of New Jersey, Piscataway, NJ.

6496 — A422 Oxidative Stress Causes Activation of the ERK Signaling Pathway in Cultured Human Retinal Pigment Epithelial Cells. Piyush C. Kothary¹, M. Crofoot², A-M. Nae³, N. Lpes¹, T. Patel¹, N.B. Jeon¹, N. Shah¹, C. Yang¹, M.A. Del Monte¹. Ophthalmology, Univ of Michigan-Kellogg Eye Ctr, Ann Arbor, MI.


6498 — A424 Understanding The Mechanism Behind Enhancing Survival Of Photoreceptors In Culture And Regulation Of Photoreceptor Metabolism. Ken Lindsay¹A, T.A. Reh¹B, J.B. Harley¹A, D. Lamb¹A, J. Gust¹B. ¹Biochemistry, ²Biological Structure, University of Washington, Seattle, WA.


6500 — A426 Effect Of Divalent Metal Chelaton On The MMP System And Transport Characteristics Of Human Bruch’s Membrane. Yunhee Lee¹, A. Hussain¹, J. Marshall². ¹Ophthalmology, King’s College London, Lambeth Palace Rd, London, United Kingdom; ²Division of Molecular Therapy, UCL Institute of Ophthalmology, London, United Kingdom.


6502 — A428 Diet Can Influence Human Retinal n-3/n-6 VLC-PUFA Ratios. Aihwa Liu¹, R. Terry², K. Nelson², X. Sheng³, P.S. Bernstein³. 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.


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. Gaillard²A. ¹Chemistry and Biochemistry, Northern Illinois University, Sycamore, IL; ²Chemistry and Biochemistry, ²Northern Illinois University, DeKalb, IL.


6507 — A433 Arms2 In/del Polymorphism Predicts Response To Intravitreal Anti-vegf Therapy For Choroidal Neovascular Age-related Macular Degeneration (amd). Alan J. Franklin¹, M.F. Shuler¹, S. Gupta², J. Myers³, W.B. Latunel³. ¹Retina Specialty Institute, Mobile, AL; ²Retina Specialty Institute, Pensacola, FL. *CR
5608 — A434 Conditional Knock-Out of Ran-binding protein 2 (RanBP2)/Nucleoporin 358 (NUP358) in the Retinal Pigment Epithelium Results in the Activation of Membrane to Nuclear Signaling Pathways and Hallmark Features of Age-Related Macular Degeneration (AMD). Paulo A. Ferreira1A, A. Saha1, E. Haque1, Y.Z. Le1, M. Webb1. 1Ophthalmology, Duke University Medical Center, Durham, NC; 2Medicine, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK.

5609 — A435 Image Registration Reveals Sites of Injury from Mitochondrial Oxidative Stress in the Retinal Pigment Epithelium. Alfred S. Lewin1A, M.P. Krebs2, S. Soo1A, K. Jones1A, H. Mao1B, W. Weiss1B. 1Ophthalmology, Duke University Medical Center, Durham, NC; 2Medicine, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK.

5610 — A436 Genetically-related Inflammatory Priming and Failing Retinal Maintenance Predispose to Age-Related Retinal Degeneration in Mice. Debarschi Mustafi1A, H. Kohno1A, K. Palczewski1A, T. Maeda1B. 1Ophthalmology, Duke University Medical Center, Durham, NC; 2Medicine, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK.

547 — AMD Clinical Research VII

Moderator: Jordi M Mones

5611 — 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 Sasaki1A, R. Kasazuki2, A. Uchida1, T. Koto1, H. Mochimaru1, H. Shioda1, T.Y. Wong1, K. Tsubota1, Y. Ozawa1. 1Department 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, National University of Singapore, Singapore, Singapore.

5612 — A514 Initial Clinical Experience With RetnaGene AMDTM, A Genetic Test For Prediction Of CNV. Briana L. Sawyer1, D.Y. Harrison1, L. Perlee1, P.S. Bernstein1. 1Ophthalmology, John A. Moran Eye Center, Salt Lake City, UT; 2Sequenom, Inc, San Diego, CA.

5613 — A515 Genetics And Prevention Of Blindness: Risk Factors Associated With Age-related Macular Degeneration In A Brazilian Population. Priscila H. Rim1A, A.P. Marques-de-Faria1A, L.A. Magna1A. 1Ophthalmology, 2Medical genetics, 3Univ Estadual de Campinas, Campinas, Brazil.

5614 — A516 Do Ultraviolet Radiations Induce Earlier Aged Ocular Pathologies Among Mountaineer Guides? Hussain El Chehab1, C. Dot1, J. Blein1, J. Herry1, J. Giraud1, F. May1, J. Renard1. 1Department of Ophthalmology, Val de Grace Military Hospital, Paris, France; 2Desgnettes Military Hospital, Lyon, France; 3Ophthalmologist, Chamonix Mont-Blanc, France; 4Ecole Nationale de Ski et d’Alpinisme, Chamonix Mont-Blanc, France.

5615 — A517 Impact Of Visceral Fat, Serum Leptin Levels And High-sensitive Crp Levels On The Pathogenesis Of Age-related Macular Degeneration. Paulina Haas1A, K. Kubista1, W. Krugluger1, J. Huber1, S. Binder1. 1Ophthalmology, Rudolf Foundation Clinic, Vienna, Austria; 2Institute for Laboratory Medicine/SMZ-East, Vienna, Austria; 3Gynecology, Medical University of Vienna, Vienna, Austria.

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

5617 — A519 Plasma Homocysteine And Extracellular Soluble Receptor For Advanced Glycation End Products (esRage) In Aqueous Humor Of Patients With Age-related Macular Degeneration. Pinio Matoula1A, K. Ninios1A, N. Mones1A, A. Mones1A, N. Szentmáry1A, R. Ohe1A, B. Seitz1A. 1Department of Ophthalmology, 2Department of Clinical Chemistry and Laboratory Medicine, 3University of Saarland, Homburg, Germany.

5618 — A520 Visual Impairments In Age-related Macular Degeneration To Process Spatial Frequencies During Natural Scene Categorization. BuxandraHora1, B. Mase1, S. Chokron1, C. Ciquet1, J. Romanet1, J. Le Bas1A, P. Carole1. 1Ophthalmology, Hospital Albert Ranich, Grenoble, France; 2Laboratoire de Psychologie et Neurocognition, CNRS UMR 5105, Grenoble, France; 3Fondation Ophthamologique Rothschild, Unité Fonctionnelle Vision et Cognition, Paris, France; 4Université Joseph Fourier - Institut des Neurosciences, INSERM U836, Grenoble, France.

5619 — A521 Contrast Sensitivity As A Predictor Of Central Field Loss. Jennifer Wallis1, P.J. Bex1, L. Lesmes1, T.S. Wallis1, M. Jackson1. 1Vision Rehabilitation, Harvard Medical School/ Massachusetts Eye and Ear Infirmary, Boston, MA; 2Schepens Eye Research Institute, Harvard Medical School, Boston, MA.

5620 — A522 A Canadian Registry Of Lucentis Treatment To Collect Effectiveness And Safety Data In Patients With Neovascular Age-related Macular Degeneration Over 36 Months (LENS): Findings From A 12-month Interim Analysis. Sebastien Olivier1, A. Charbonneau1, M. Guinta1, P. Saurel1, M. Bense1, B. Relot1, F. De Takacsy1, R. Li1. 1Ophthalmology, Hospital MaisonneuveRosemont, Montreal, QC, Canada; 2Polyclinique de Trois-Rivières, Trois-Rivières, QC, Canada; 3Université de Sherbrooke, Sherbrooke, QC, Canada; 4Clinique ChirurgiVision, Drummondville, QC, Canada; 5Health Sciences Centre-Eye Clinic St John’s, St John’s, NL, Canada; 6Everest Clinical Research Services Inc., Markham, ON, Canada; 7Novartis Pharmaceuticals Canada Inc., Dorval, QC, Canada.

5621 — A523 The Impact Of Anti-vegf Treatment On Vision-related Quality Of Life In Age-related Macular Degeneration Outside Clinical Trials. Robert P. Finger1, J.B. Hassell1, F. Abed1, M.C. Gillies1, J.E. Keeffe1, R.H. Guymer1. 1Centre for Eye Research Australia, Melbourne, Australia; 2Save Sight Institute, Sydney, Australia.

5622 — A524 Outcome Study of Treating Neovascular age-related Macular Degeneration: Preliminary Results. Margriet I. van der Reis1, M. Elisbou1, Y. de Jong - Hess1, E.C. La Heij1, P.J. Ringens1, F. Hendrikse1, C.A. Webers1, J.S. Schouten1. 1Ophthalmology, University Eye Clinic Maastricht, Maastricht, The Netherlands; 2Ophthalmology, VU University Medical Center, Amsterdam, The Netherlands; 3Ophthalmology, University Medical Center Utrecht, Utrecht, The Netherlands.

5623 — A525 Spectral Domain Optical Coherence Tomography Treatment Guidance Of Monthly Follow-up Of Patients With Exudative Age-related Macular Degeneration. Roberto Gallego-Pinazo1, E. Sanz-Marco1, S. Martinez-Castillo1, R. Dols-Marco1, J. Arévalo1A, M. Díaz-Llopis1A. 1Ophthalmology, University and Polytechnic Hospital La Fe, Valencia, Spain; 2Retina, Wilmer Eye Institute. Johns Hopkins University School of Medicine, Baltimore, MD; 3King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia; 4Faculty of Medicine, University of Valencia, Valencia, Spain.

5624 — A526 A Review Of The Indications For And Subsequent Visual, Anatomic And Safety Results After Switching From One Anti-VEGF Therapy Agents To Another In AMD Patients. Jennifer A. Day1, S. Dev1. VitreoRetinal Surgery, PA, Minneapolis, MN.

5625 — A527 One year’s treatment with intravitreal Ranibizumab (lucentis®) and Verteporfin PDT combination Therapy at Month 2 for Neovascular Age-related Macular Degeneration (AMD). Eric Fourmaux1, M. Dominguez1, L. Rosier1, L. Velasque1. Retine Tourny, Bordeaux, France.
6526 – A528 Clinical Features Of Self-resolving Sub-foveal Choroidal Neovascularisation in ‘Wet’ Age Related Macular Degeneration. Sharmin Badiei1, N. Patel2, S. Walker2. Ophthalmology, William Harvey Hospital NHS trust, Ashford, United Kingdom; 1Medical 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. Roth2, A. Shah2, H. Fine3, J. Prener4, W. Feuer5. Ophthalmology, Robert Wood Johnson Medical School, New Brunswick, NJ; 2Bascom Palmer Eye Institute of the University of Miami School of Medicine, Miami, FL.


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. Christensen2, S.J. Chu3, S. Farsiu3, C.A. Toth3. Ophthalmic Engineering, 1R&D Optics Low Vision, Essilor International, Paris, France; 2Hospital La Timone, Low Vision Clinic, Marseille, France; 3Low Vision Rehabilitation, Pully, Switzerland; *SBRI, Inserm U 846, Université Lyon1, Lyon, France.


6531 – A533 Optical Coherence Tomography Characterization of Apparent Foveal Swelling in Patients with Foveal Sparing Secondary to Geographic Atrophy. Fabio M. Trindade, J. Mones, M. Biarnes. Institut de la Macula i de la Retina and Optic Department, Medical Retina Department, Royal Wolverhampton Hospitals NHS Trust, Wolverhampton, United Kingdom.

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


6534 – A536 Evaluation of Peripheral Fundusautofluorescence Changes in Patients with Wet ARMD: The OTELLO Study. Anita Zenger1, M.B. Rougier2, H.F. P.E. Stanga3, T. Schmitz-Valkenburg3, L. Reznicek4, U.E. Wolf-Schnurrbusch5,6,7,8,10, 1Bern Photographic Reading Centre, 2Ophthalmology, University Bern, Bern, Switzerland; 3Service d Ophthalmologie, CHU-Bordeaux Unis de Bordeaux, Bordeaux, France; 4Vitreoretinal Unit, Manchester Royal Eye Hospital, Manchester, United Kingdom; 5Ophthalmology, University of Bonn, Bonn, Germany; 6Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany.*CR

6535 – A537 Significance of Small Dense Particles During Treatment of Exudative Age-related Macular Degeneration. Randhir Chavan1,2, Anja C. Miege1. Ophthalmology, Royal Wolverhampton Hospitals NHS Trust, Wolverhampton, United Kingdom.


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. Birch1,2, J. Chandler3. Ophthalmology, University of Reading, Reading, United Kingdom; 2Research Unit, Centre for Eye Research Australia, East Melbourne, Australia.*CR

6538 – A540 Neuropeptide Y Protects Retinal Neuronal Cells From Glutamate-induced Toxicity Through The Activation Of NPY Y1 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. Chauhan1, W.H. Baldridge1. 1Retina and Optic Nerve Research Laboratory, Ophthalmology & Visual Sciences, 2Retina and Optic Nerve Research Laboratory, Ophthalmology & Visual Sciences, Anatomy & Neurobiology, *Retina 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 Notomi1,2, T. Hisatomi3, A. Takeda4, Y. Ikeda4, H. Enaida1, T. Ishibashi5. Ophthalmology, 1Dept of Ophthalmology, Kyushu University, Fukuoka, Japan; 2Department of Ophthalmology, Kyushu University, Fukuoka, Japan.

6541 – A543 Changes In P2X Receptor Activity During Retinal Degeneration. Aleksandra Polosukhina, A. Noblet, I. Tochitsky, R.H. Kramer. UC Berkeley, Berkeley, CA.

6542 – A544 Localization and Physiology of L-type Ca2+ Channels in Human RPE. Qin Wan, Y. Raghubram, 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. Anna E. Abu Khmaidakh1,2, K. Juntti-Uustialou1, K. Larsson1, H. Skottman1, J. Hyttinen1. 1Department of Biomedical Engineering, Tampere University of Technology, Tampere, Finland; 2BioMediTech, Tampere, Finland; 3Institute of Biomedical Technology, University of Tampere, Tampere, Finland.

6544 – A547 Alpha 2 adrenergic agonist receptor in chick retina. Gabriella V. Costa, M.K. Shigetomi1,2, R. Fleming3,4, V.V. Oliveira1,2, A.A. Costa2,3, P. Gardino1,4, A.M. Dantas1,2, A. Skottman1,4. 1Institute of Biophysics Carlos Chagas Filho, 2Department of Ophthalmology, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.

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


6548 – A550 Loss of Ife Leads to Progression of Tumor Phenotype in Primary Retinal Pigment Epithelial Cells. Jaya Pranava Gnana Prakasam1, R. Veeranan-Karmegam1, V. Coothankandavasamy1, S.K. Reddy1, P.M. Martin2, M. Thangaraju2, S.B. Smith2, V. Ganapathy3. Ophthalmology, 1Retina and Optic Nerve Research Lab, Ophthalmology & Visual Sciences, Physiology & Biophysics, 2Cellular and Molecular Biology, 3Biological and Anatomy, Georgia Health Sciences University, Augusta, GA.

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6549 — A551 Therapeutic Inhibition Of Retinoblastoma By Nanoceria. Kathryn E. Klump1A, S.V. Kissewa2, S. Seal2, M.A. Dyer3, J.F. McGinnis1A,2,4. 1Oklahoma Center for Neuroscience, 2Department of Ophthalmology, 3University of Oklahoma Health Sciences Center, Oklahoma City, OK; 4Mechanical Materials Aerospace Engineering, Nanoscience, and Technology Center, University of Central Florida, Orlando, FL. Effects of Developmental Neurobiology. St. Jude's Children Research Hospital, Memphis, TN; 1Howard Hughes Medical Institute, Chevy Chase, MD. 

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

6551 — A553 Absorption Of Spio Nanoparticles Using Different Media On Arpe-19 And Hect Cell Cultures. Gustavo T. Grottone1A, R.R. Loureiro1, J. Couvre2, L. Gamarra1, P. Cristovam1, J.P. Gomes1. 1Ophthalmology, UNIFESP/Santa Casa de Santos, Santos, Brazil; 2Ophthalmology, UNIFESP/Santa Casa de Santos, Santos, Brazil; 3Ophthalmology, UNIFESP, Santos, Brazil; 4Oncology, Instituto Israelita de Pesquisas Albert Einstein, São Paulo, Brazil.

6552 — A554 Secretion Of VEGF From Polarized RPE By Tnfa-Or Thrombin. Hiroto Terasaki1A, M. Shirasawa1A, N. Arimura1A, S. Sonoda1A, T. Sakamoto1B. 1Ophthalmology, 2Department of Ophthalmology, Kagoshima University, Kagoshima, Japan.

6553 — A555 CEP290 is Required for Photoreceptor Ciliogenesis and Ventricular Ependymal Cilia Function. Erin Tamamoto1, R. Rachel2, M. Devanajan3, J. Manasinghe2, T. Li1, L. Dong1, A. Swaroop1. 1Neurobiol-Neurodegenrtn & Repair, NEI, Bethesda, MD; 2NINDS, Bethesda, MD.

6554 — A556 Rapid Photoreceptor Degeneration Occurs In Zebrafish arl13b Mutants Following Suppression Of Pep Signaling. Brian D. Perkins, L. Dudianty. 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, J.R. Eide1, P. Askel1, T. Lyberg1, Y. Chen1, T.P. Utzheim1. 1Center for Clinical Research, 2Department of Ophthalmology, 3Ou University Hospital, Oslo, Norway; 4SyncLaser Kirurgi Oslo/Tromso, Oslo, Norway. 


6559 — A561 Changes In The Expression Of Genes Related To Oxidative Stress In Rd1 Mice. Violeta Sanchez-vallejo1, M. Flores-Bellver1, R. Alvarez-Nübling1, S. Johnsen-Soriano1, M. Miranda1, F. Romero Gomez1-2. 1Physiology, Univ CEU Cardenal Herrera, Valencia, Spain; 2Fundación Oftalmológica del Mediterráneo, Valencia, Spain; 3Universidad Católica ´San Vicente Mártir´, Valencia, Spain.

6560 — A562 The Cysteine Prodrug L-2-Oxothiazolidine-4-Carboxylic Acid (OTC) Elicits Potent Antioxidant and Anti-inflammatory Effects in RPE: Relevance to Treatment of Age-Related Macular Degeneration. Wanziva Promsote1A, S. Ananth1A, R. Veearan-Karmegam1A, N. Lambert1A, C-C. Char1, V. Ganapathy1A, P.M. Martin1A. 1Biochemistry and Molecular Biology, 2Pharmacology and Toxicology, 3Georgia Health Sciences University, Augusta, GA; 4Immunopathology 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. Nadel-Nicolás1,2, J. Jimenez-Lopez1, M. Salinas-Navarro1, L. Nieto-Lopez1, A. Ortu-Martinez1, C. Galindo-Romero1, M. Sanchez-Migéllor1, P. Sobrado-Culve1, M. Vidal-Sanz1, M. Aguado-Barriuso1. 1Unidad de Investigación, Hospital Universitario Virgen de la Arrixaca, Murcia, Spain; 2Dépto Oftalmología, Universidad de Murcia, Murcia, Spain.


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

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

6566 — A568 Subretinal gene therapy in Bbs1 mice. Arlene V. Drack, S. Bhattarai, S. Seo, D. Gratie, 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. Kieron S. Boochoo1A, J.T. Davis1A, J.C. Manarang1A, A.M. McDermott1A, W.J. Foster1A. 1Biology & Ophthalmology, 2Physics, 3Optometry & Vision Science, 4University of Houston, Houston, TX; 5Ophthalmology, Weill-Cornell Medical College, Houston, TX.

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


Thursday – Posters – 6549 – 6571

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, T. Nakamachi1B, K. Endo1A, T. Seki1A, S. Shioda1A, R. Koide1A. 1Department of Ophthalmology, 2Department of Anatomy, Showa University School of Medicine, Tokyo, Japan.

6571 — A209 Increased Neuro-retinal Injury After Intraocular Pressure Elevation In Xenonitochondrial Mice And Compensation By Ophthalmologist Complex IV. Ian A. Trounce1, N. Van Bergen1, G. Kong1, V. Chrysostomou1A, C.A. Pinkert1A, J.G. Crowston1A. 1Center for Eye Research Australia, University of Melbourne, Melbourne, Australia; 2College of Veterinary Medicine, Auburn University, Auburn, AL.

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6572 – A210 Elevated Intraocular Pressure Increases Serine Protease Levels In The Retina And Promotes Retinal Ganglion Cell Loss. Shrikanth K. Chinitala, X. Zhang, M. Cheng. Eye Research Institute, Oakland University, Rochester, MI.


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


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

6578 – A216 Effects Of 24S-hydroxycholesterol On Primary Glial Müller Cells. New Insights On Müller Cells Function And Cholesterol Homeostasis In The Retina. Cynthia Fourgeux1, L. Martine1, L. Leclere1, B. Buteau1, A. Broy1, C-G. Cather61, L. Brevillon1. 1INRA, University of Burgundy, Eye, Nutrition & Cell Signalling Res Grp, Dijon, France; 2Department of Ophthalmology, University Hospital, Dijon, France.

6579 – A217 Neuroprotective Effect of Resveratrol after Optic Nerve Transection. SeokHwan Kim1, J. Park1, M. Kim2, M. Kim2, D. Kim1, J. Jeoung2, T-W. Kim4, K. Park2. 1Ophthalmology, Boramae Hospital, Seoul, Republic of Korea; 2Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; 3Ophthalmology, Seoul National University Bundang Hospital, Kyunggi, Republic of Korea; 4Ophthalmology, 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. Shenhui Zhang, X. Sun, J. Wu. Eye & ENT Hospital, Fudan University, Shanghai, China.

6584 – A222 Acid Phosphomylineline Plays a Role in IR-induced Retinal Degeneration. H. Fan1, H. Wei1, Y.A. Hamman2, C.E. Crosson2. 1Ophthalmology-Storm Eye Inst, 2Biochemistry and Molecular Biology, Ophthalmology, Medical Univ. of South Carolina, Charleston, SC.

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

6586 – A224 Etanercept, A Widely Used Inhibitor Of Tumor Necrosis Factor-α (tnf-α), Prevents Retinal Ganglion Cell In A Rat Model Of Glaucoma. Min Roh1, Y. Zhang1, Y. Murakami1, A. Thanos2, D.G. Vavvas1, L. Benowitz2, J.W. Miller3. 1Ophthalmology, MEEI, Angiogenesis Research Institute, Boston, MA; 2Neurology, Laboratories for Neuroscience Research in Neurosurgery, F.M. Kirby Neurobiology Center, Children’s Hospital Boston, MA.

6587 – A225 a2-adrenergic Receptor Agonist Restores Mitochondrial Transcription Factor A And Oxidative Phosphorylation, And Protects Retinal Ganglion Cells Against Retinal Ischemic Injury. Won-Kyu Ju1, D. Lee1, K. Kim2, J. Kim1, Y. Koh1, R.N. Weinreb1A. 1Glaucoma & Retinal Neurodegnrtn Res Grp, UCL Institute of Ophthalmology, London, United Kingdom; 2Centre of Ophthalmology and Vision Sciences, IBILI, Faculty of Medicine, University of Coimbra, Portugal; 3Glaucoma & Retinal Neurodegnrtn Res Grp, UCL Inst Ophthal & Western Eye Hsp London, London, United Kingdom. *CR


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

6592 – A230 Down Regulation Of 14-3-3 Ab In Glaucoma Patients Could Lead To Loss Of Protective Effects. Katherina Bell, C. Wilding, N. Pfeiffer; F.H. Grus. Experimental Ophthalmology, Medical Centre University of Mainz, Mainz, Germany.


6594 – A232 Stretch-activated IL-3 Release From Retinal Ganglion Cells Is Protective And Involves The P2X7 Receptor. Jason C. Lim1, W. Lu1, J.M. Beckel1, M. Buell1, J. Xia1, E.J. Macarak1, A.M. Latties1, C.H. Mitchell1,2,3. 1Anatomy and Cell Biology, Ophthalmology, 2Physiology, 3University of Pennsylvania, Philadelphia, PA.


6596 – A234 ShH1A, A Novel Müller Glia Cell-specific AAV Vector, Expressing GDNF Promotes Retinal Ganglion Cell Survival Following Neuronal Injury In Thy1-YFP Mice. Chendong Pan1, L. Guo1, S. Gu1, T.W. Chalberg, Jr1, D. Schaffer1, J.G. Flannery1, A.M. Demetriades1. 1Glaucoma Research Laboratory, Dyson Institute, Weill Medical College of Cornell University, New York, NY; 2Avalanche Biotechnologies, Inc, Redwood City, CA; 3Helen Wills Neuroscience Institute, University of California, Berkeley, Berkeley, CA. *CR


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1Vanderbilt Eye Institute, 2Interdisciplinary Graduate Program, 3Vanderbilt University Medical Center, Nashville, TN.

6599 — A237 Alpha-1 Adrenergic Receptor Stimulation Induces Ocular Disease via TGF-β-Mediated Mechanisms. Jose L. Vega1, I. Agoulnik2, F. Mis2, D. Chen3, W. Bowden2, Y. Qiang2, E. Suarez2, P. Durand2,3.

2Department of Neurology, 3Department of Cell Biology and Pharmacology, 4Herbert Wertheim College of Medicine, Miami, FL; 5Ophthalmology, Schepps Eye Research Institute, Boston, MA; 6Department of Biophysics, Florida International University, Miami, FL. *CR


Ophthalmology/Vis Sci, Vanderbilt University Med Ctr, Nashville, TN.

6601 — A239 Slt2 Delays The Death Of Retinal Ganglion Cells After Optic Nerve Crush Injury. Thomas F. Sabljic, J.C. Lim1, A. Ball.

1Ophthalmology, University of Eastern Finland, Kuopio, Finland; 2Ophthalmology, University of Illinois at Chicago, Chicago, IL. *CR


1Ophthalmology, Northwestern University, Chicago, IL; 2Biomedical Engineering, 3Neurobiology, Northwestern University, Evanston, IL.

6603 — A241 Mechanosensitive Channels In Isolated Rat Retina Ganglion Cells: Response To Strain From Within Neurons. Jingsheng Xia1,4, J.C. Lim1, W. Lu1, J.M. Beckel1, A.M. Laties4, C.H. Mitchell1,2,3.

1Anatomy and Cell Biology, 2Ophthalmology, 3Physiology, University of Pennsylvania, Philadelphia, PA.

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. Cone1, M. Steinhardt1, M. Pease3, H. Quigley1.

1Ophthalmology, University of Eastern Finland, Kuopio, Finland; 2Ophthalmology, Johns Hopkins School of Med, Baltimore, MD.


6606 — A244 Alteration Of Lymphocyte Levels In An Autoimmune Model Of Retinal Ganglion Cell Loss. Sandra Kuehn1, R. Noristans1, M. Kuehn1, J. Schiewe2, F. Gras3, B. Dick2, S. Joachim1.

1Experimental Eye Research Institute, Ruhr University, Bochum, Germany; 2Experimental Ophthalmology, University Medical Center, Mainz, Germany.


Ophthalmology and Visual Sciences, Univ of Wisconsin-Madison, Madison, WI.

6608 — A246 Axonal Subtypes in Normal and Glaucomatous Retinas. Ye Zhou1, X. Zhao2, S. Williams2, 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 Cour3, S. Nielsen1, J.U. Praise1, S. Hamanne1, 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. Crisd1, D.J. Calkins.

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 Glial Reactivity 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; 2University of Ophthalmology, University of Cambridge, United Kingdom. *CR


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. Parauan1, A.F. Clark1, I. Grierson1.

1Eye and Vision Science, University of Liverpool, Liverpool, United Kingdom; 2Cell Biology & Anatomy, University of North Texas HSC, Fort Worth, TX. *CR

6615 — A253 TLRI-4 Innate Immune Differential Response To Three Dietary Fatty Acids Challenged With Low Molecular Weight Hyaluronic Acid, a TLRI-4 Ligand. Algis Grybauskas1, E. Wagner1, R. Burdi1, L. Walker1, P.A. Kneppe2.

1Ophthalmology and Visual Sciences, University of Illinois at Chicago, Chicago, IL; 2Ophthalmology, Northwestern University Medical School, Chicago, IL.


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. Weinstreb1, 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.

Hall B/C A607-A640

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

Lens

550 Cataract Surgery I

Moderator: Steven Bassnett

6618 — A607 In Vivo and In Vitro MRI of the Uvea in Pseudophakic Human Eyes. Susan A. Strein1, B.S. Tran1, L. Werner1, N. Manalis1, L.M. Strein1, 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

*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
A608 Aravind Pseudoxefoliation Study (APEX) I: Intraoperative Results. Alan L. Robin1,2, R. Venkatesh1, A. Hariripriya1, C. Shivakumar1, V. Prabhu1, M. Sekhar1, B. Talwar1, P. Sathyan1, D. Ramakrishnan1. Aravind Eye Hospitals and Post Graduate Institute of Ophthalmology, Madurai, India; 2Ophthalmology and International Health, Johns Hopkins University, Baltimore, MD.


A610 Reduced Laser Pulse Width Improves Cutting Efficiency in Laser Refractive Cataract Surgery. Simone Schneider1, H. Uy1, K. Edwards2, T. Olmstead2, V. Teuma3. 1Ophthalmology, EyeCare Partners, Salt Lake City, UT; 2Departement of Ophthalmology, University of California, Irvine, CA; 3UCLA, Los Angeles, CA.

A611 Morphology of Femtosecond Intrastromal Arcuate Incisions. Perry S. Binder1, B. Gray2, M. Brownell2, J. Martiz, MD1, A. Gwon, MD3, A. Gwon, MD4, J. Hill5. 1Departamento de Luminotecnia, ILA V, CONICET, Buenos Aires, Argentina; 2Abbott Medical Optics, Santa Ana, CA; 3Department of Ophthalmology, Vanderbilt University School of Medicine, Nashville, TN; 4University of California, Irvine CA, San Diego, CA; 5Department of Ophthalmology, University of Alabama at Birmingham, Birmingham, AL.

A612 Posterior Capsule Opacification of a 1-piece and a 3-piece Microincision Intraocular Lens - 1 year Comparison. Ana Prinz1, B. Weingessel1, O. Findi2, P.V. Vencei-Marlović1. 1Department of Ophthalmology, Hietzing Hospital, Vienna, Austria; 2Department of Ophthalmology, Hanusch Hospital, Vienna, Austria.


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. Malec1, N. Chave3, G. Ract-Madoix1, J. Giraud4. 1Ophthalmology, Hospital Desgenettes, Lyon, France; 2Department of Ophthalmology, Hospital Desgenettes, Lyon, France.


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. Esson2, K.J. Fritz3, R.R. Dubielzig1. 1Pathobiological Sciences, UW-Madison School of Veterinary Medicine, Madison, WI; 2Eye Care for Animals, Tustin, CA.

A617 Correlation Of Subjective Nuclear Sclerotic Cataract Grading And Intraoperative Cumulative Dispersed Energy During Phacoemulsification. Nakul Shekhwat1, A. Chomskey2,3,4. 1Vanderbilt University School of Medicine, Nashville, TN; 2VA Tennessee Valley Healthcare System, Nashville, TN.

A618 Asymtomatic Capsular Bag Distension 10 years after Cataract Surgery, 7 Case Reports. Eva Monestam. Clinical Sci & Ophthalm, UMEA University, Umea, Sweden.

A619 Objective Discrimination Between Operable And Non-operable Cataracts. Clemente Paz Filgueira1, R.F. Sanchez1, L.A. Iossio1, M. Vilaseca2, J. Pujol1, E.M. Colombo1. 1Departamento de Luminotecnia, ILAV, CONICET - UNT, San Miguel de Tucuman, Argentina; 2Optometria, Universidad Politecnica Catalunya, Terrassa, Spain.

A620 Subjective Outcomes Evaluation of Aspheric Diffractive and Apodized Diffractive Aspheric Multifocal IOls. Dwayne K. Logan1, E. Sadri2. 1Cataract and Refractive Surgery, Atlanta EyeCare, Long Beach, CA; 2Cataract and Refractive Surgery, Atlanta EyeCare, Newport Beach, CA.


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

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

A624 Randomized Comparison of a Transversal Ultrasound vs. a Torsional Handpiece in Phacoemulsification: A Contralaterally-Controlled Trial. Kerry Assil, W. Christian, L. Harris. Assil Eye Institute, Beverly Hills, CA.

A625 Continuous Intraocular Pressure Measurements During Small Incision Phacoemulsification Surgery In Porcine Eyes. Seunghyoun Jee1, M. Son1, T. Baek1, J. Lee1. 1Ophthalmology, GM St. Mary” eye center, Busan, Republic of Korea; 2Ophthalmology, Haeundae Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea.


A627 Intracameral Anesthesia For Cataract Surgery, A Population-based Study On Patient Satisfaction And Outcome. Inger M. Westborg1, E. Mönestam2. 1Ophthalmology, Eye Clinic, Sunderby Hospital, Lulea, Sweden; 2Clinical Sci & Ophthalm, UMEA University, Umea, Sweden.

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

A629 Viscoat Versus Visthesis During Phacoemulsification Cataract Surgery: Corneal And Foveal Changes. Marilùta M. Moschos1,2, E.P. Chatziralli1, T.N. Sergentanis2,3, I. Ladas4,5. 11st Department of Ophthalmology, 2Department of Epidemiology and Biostatistics, 3University of Athens, Athens, Greece.


A631 A Comparative Study of Phacoemulsification With the Ozil Intelligent Phaco(IP) handpiece and OZil handpiece:retrospective clinical study. Yoshinao Setoguchi1, H. lto1, H. Nakashiki1, K. Kuroda1, K. Anemiy1, M. Taniguchi1, Y. Okamoto1, A. Ootani1, Y. Tanaka1. 1Japanese Red Cross Wakayama Medical Center, Wakayama, Japan; 2Tanaka Eye Clinic, Wakayama, Japan.

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, J.J. van der Meulen2. 1Ophthalmic Research, Netherlands Inst for Neurosci, Royal Acad, Amsterdam, The Netherlands; 2Ophthalmology, Academic Medical Center, Amsterdam, The Netherlands.
6644 — A633 Comparison of surgically-induced astigmatism after a 2.2 mm vs. 2.6 temporal corneal incisions in more than 2 years follow-up. Lei Zheng, J.C. Merriam. Ophthalmology, Columbia Univ-Harkness Eye Inst, New York, NY.


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


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

6651 — A640 Refractive Outcomes Of Combined Cataract And Glaucoma Surgery At A VA Hospital. Christopher T. Shah, J. Zhu, A. Galor, A.K. Junk, C.W. See, S.R. Wellik. College of Human Medicine, Michigan State University, Grand Rapids, MI; Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL; Ophthalmology, Miami Veterans Affairs Medical Center, Miami, FL; Columbia University, New York, NY; Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Plantation, FL.


6656 — A645 Sutureless transcleral Intraocular Lens implantation after ocular trauma. Malek Khouani, D. Gaucher, T. Bourcier, C. Speeg, M. Montard, B.Y. Delbosc, M. Saleh. Ophthalmology, University Hospital of Besancon, Besancon, France; Ophthalmology, Hopital Civil de Strasbourg, Strasbourg, France; Ophthalmology Dept SMOH Pole, University Hospital, Strasbourg, France; Ophthalmology, University Hospital, Strasbourg, France; Ophthalmology, Centre Hospitalier Universitaire, Besancon, France; Ophthalmology, Univ Hosp, Besancon, France.


6658 — A647 Change In Central Corneal Volume After Cataract Surgery. Melissa M. Wong, A. Shadda, W.M. Moir. Ophthalmology, Boston Univ School of Med, Boston, MA; Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA.


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


6664 — A653 Shadowphotography of IOL Injectors and Clear Cornea Incision Size. Alejandro Arboleda, E. Arrieta, D. Nankivil, M.C. Aguilar, K. Sotolongo, S.H. Yoo, J-M.A. Pare. ‘Ophthalmic Biophysics Center, Dept. of Ophthalmology, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL; ‘Biomedical Optics and Laser Laboratory, Dept. of Biomedical Engineering, University of Miami College of Engineering, Coral Gables, FL. *CR


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


6669 — A658 Retrospective Evaluation of Tecnis Multifocal (ZM400 or ZM800) and ReSTOR (SN60D1) Intraocular Lenses Following Phacoemulsification. Gabriela Perez, J.A. Khell, A. Kshetrapal, W. Trattler, C. Buznego, F. Spokor. 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.


Hall B/C  D701-D729
Thursday, May 10, 2012, 11:15 AM-1:00 PM

Lens

552 Cataract Complications and Drugs

Moderator: Paul G FitzGerald

6681 — D701 Conjunctival Bacterial Flora And Antibiotic Resistance Patterns After Preoperative Application Of Topical Levofloxacin 0.3%. Herminia Mino de Kaspar1, L.E. Hoffmann1, L. He2, B. Li3, M.M. Nentwich1, C. Haritoglou1, D. Ko0k3, 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, G. Perez2, G. Factor for the Development of Intraoperative Floppy Iris Syndrome During Cataract Operation: Posterior Versus Anterior vitreoretinopathy? Chaerin Park1,2, S. Wool1, J. Hyon1, T. Kim1, K. Park1. 1Department of Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; 2Seoul Artificial Eye Center, Institutes for Biomedical Research, Seoul National University Hospital, Seoul, Republic of Korea; 3Department of Ophthalmology, Seoul National University Bundang Hospital, Seongnam, Republic of Korea.


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

6689 — D709 Laterality as a Risk Factor for Intraoperative Complications During Cataract Surgery. Danielle Trief1, P.A. Legotto3, M.K. Daly1. 1Ophthalmology, Veterans Affairs Boston Healthcare System, Boston, MA; 2Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 3Semphonic, Novato, CA; 4Ophthalmology, Boston University School of Medicine, Boston, MA.

6700 — 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. Erb3A, T.L. Comstock3A. 1Cornea Consultants, PC, McLean, VA; 2European Pharmaceutical Clinical Science, Bausch & Lomb, Montpellier, France; 3Biostatistics, 2Medical Affairs, Global Pharmaceutical, 3Bausch & Lomb, Rochester, NY. *CR, *
Thursday – Posters – 6691 – 6715


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


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


6705 — D725 The Effect of Tamsulosin (Flomax) on Iris Vasculature. Christopher T. Hood, M. Hussain, T.M. Cooney, Y.M. Elnor, R.M. Shtein. Kellogg Eye Center, University of Michigan, Ann Arbor, MI.


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

553 Cataract Training, Modeling, Pediatrics

Moderator: Paul G FitzGerald


6713 — D733 Determination of Endothoxin Concentration in Hyaluronic Acid by The Light Scattering Method. Taiki Ohiida, Y. Sugita, T. Asano, T. Hiroto, M. Sawa. Division of Ophthalmology, Department of Visual Sciences, Nihon University School of Medicine, Tokyo, Japan; Biophotonics Section, Research & Development Department, Electronics & Optics Division., Kowa Company, Ltd., Tokyo, Japan.


6719 – D739 Resident Cataract Surgery Outcomes with Toric Intraocular Lenses. Helen R. Moreira1A, B.P. Greenberg, MD1B. R & D, Abbott Medical Optics, Santa Ana, CA; *Imaging Insights, Santa Ana, CA. *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, T. Yoo, J-M. Parel. Ophthalmic Biophysics Center, Dept. of Ophthalmology, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL. *CR


6725 – D745 Validity of a Miniaturised Open-field Aberrometer with Surgical Application. James S. Wolfssohn1, U.K. Bhatt1, A.L. Sheppard2, S. Shah2, H. Dua2, T. Mihashi2, T. Yamaguchi2. 1School of Life and Health Sciences, Aston University, Birmingham, United Kingdom; 2Midland Eye Institute, Birmingham, United Kingdom; 3Ophthalmology, Nottingham University, Nottingham, United Kingdom; 4Topcon, Tokyo, Japan. *CR

6726 – D746 Technical Requirements For Adapting A Corneal Femtosecond Laser Workstation To Perform A Lenticular Capsulotomy. Michael Brownell1,2, H. Fu1, J. Hill1, P. De Guzman1, Z. Bor1, L.G. Vargas1, A. Dennisson1, J. Tümvik1. 1R & D, Abbott Medical Optics, Santa Ana, CA; *Imaging Insights, Santa Ana, CA. *CR

6727 – D747 In Situ Modification of Customized IOLs using the Phase Wrapping Algorithm. Ruth Sahler1, J.F. Bille2, R. Aguiler1, S. Zhou2, D. Schanzlin1. 1Medical Physics, University of Heidelberg, Heidelberg, Germany; 2Physics, University of Heidelberg, Mannheim, Germany; 3Aaren Scientific Inc, Ontario, CA; 4R&D, Aaren Scientific Inc, Irvine, CA; *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. Chon. Ophthalmology, Univ of S Carolina, School of Medicine, Columbia, SC.

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

6731 – D751 Biometric Parameters Before And After Mydriasis. Jonathan Shahkar, N. Fisher, E. Rosenfeld, S. Kurtz. Tel Aviv Medical Center, ophthalmology department, Sackler faculty of Medicine, Tel Aviv University, Tel Aviv, Israel.


6733 – D753 Evaluation Of A Warm-up Effect In Resident-performed Cataract Surgery. Mohsin Chowdhury1, J.B. Rosenberg2, J.G. Lee1, L.A. Eisen2, A.A. Madue1. 1Albert Einstein College of Medicine, Bronx, NY; 2Department of Ophthalmology and Visual Sciences, Division of Critical Care Medicine, Department of Medicine, Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY; 3Department of Ophthalmology and Visual Sciences, Case Western Reserve University, Cleveland, OH.


*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
**554 Oculoplastics III**

**Moderator: Francisco H Andrade**

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

1Ophthalmology, University of Washington, Seattle, WA; 2Ophthalmology, Roger John Vision Lab., Seattle Children’s Hospital / W-7729, Seattle, WA; 3Ophthalmology-W-4743, Seattle Children’s Hospital, Seattle, WA.

Mayo Clinic, Rochester, MN.

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

**6747 — D767** Muller’s Muscle-Conjunctiva Resection Outcomes And Phenylephrine Predictability In Ptosis From Horner’s Syndrome. Senad Osmanovic, J. Hou, V. Aakalu, P. Setabutr, A.M. Patterman.
Ophthalmology, University of Illinois at Chicago, Chicago, IL.

**6748 — D768** Characterization of Adrenergic Receptor Subtype Gene Expression in Human Muller’s Muscle using Laser-Capture Microdissection and Quantitative Polymerase Chain Reaction. Joshua H. Hou1, R. Singo1, S.J. Greer2, S. Jain1, V.K. Aakalu1, P. Setabutr1.
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, 2Oculoplastics, Pathology, Brown University, Providence, RI.

**6755 — D775** Gelatinous And Hard Silicone Spheres In The Rabbit Eviscerated Anophthalmic Cavities. Mayomi S. Kamamura, 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 Pointdujour1, J. Gutman1, C. Calderon1, P. Langer2, R. Shinder2.
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.

**6759 — D779** Cyanocarcinoid Pseudotorsophora: Presentation & Treatment Strategies. Matthew Gorski, R. Shinder.
Department of Ophthalmology, SUNY Downstate Medical Center, Brooklyn, NY.

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

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

**6762 — D782** Refractive Error in Preschool-Aged Children: Sydney Paediatric Eye Disease Study (SPEDS). Sonia Afsar1, K.A. Rose2, A. Pai1, J. Leone2, P. Mitchell1.
Ophthalmology, University of Sydney, Sydney, Australia; 2Discipline of Orthoptics, University of Sydney, Lidcombe, Australia.

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

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

**6765 — D785** Coagulopathy and Retinal Hemorrhage in Pediatric Head Trauma. Aida Bounama1, B.J. Forbes1, C.W. Christian2, J. Huang3, G-S. Ying4, K.E. Romero5, J.P. Antigua6, G. Binenbaum7.
1Ophthalmology, 2Pediatrics, 3Children’s Hospital of Philadelphia, Philadelphia, PA; 4Ophthalmology, 5Pediatrics, 6Children’s Hospital of Perelman School of Medicine, Philadelphia, PA; 7Pediatrics, University of California San Diego, San Diego, CA.

**6766 — D786** Evolution Of Axial Length In Congenital Glaucoma. Bruno Sautiere1, A. Duhamel1, A. Galet1, J-F. Rouland1.
1Ophthalmology, 2Anesthesiology, 3Hiruez Hospital, CHRU Lille, Lille, France; 4Biostatistics unit, CHRU Lille, Lille, France.

**6767 — D787** Central Corneal Thickness and Intraocular Pressure In Moderate-Late Premature School Aged Children. Lina H. Raffa1, J. Dahlgren1, A-K. Karlsson2, M.A. Gronland3.
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 IOLunnder 2: Outcomes Following Surgery With And Without Primary Intraocular Lens Implantation In Children under 2 Years Old. Lola A. Sotelo1, J.S. Rahi2, British Isles Congenital Cataract Interest Group. 1MRC Centre Epidemiology (Child Health), Institute Child Health, UCL, London, United Kingdom; 2Kingston Eye Hospital, London, United Kingdom; 3Moorfields Eye Hospital, London, United Kingdom.

6770 — D790 Eye Injuries in US High School Athletes: Results of a Six-Year Epidemiologic Study. Andrew W. Stacey1, C.N. Czyz2, J.A. Foster2, D. Comstock3, 1Department of Medical Education, Riverside Methodist Hospital, OhioHealth, Columbus, OH; 2Division of Ophthalmology, Section Oculofacial Plastic and Reconstructive Surgery, Ohio University, Doctor’s Hospital, Columbus, OH; 3Nationwide Children’s Hospital, Columbus, OH; 4Center for Injury Research and Policy, The Research Institute at Nationwide Children’s Hospital, Columbus, OH; 5Division of Epidemiology, The Ohio State University College of Public Health, Columbus, OH.

6771 — D791 Investigation on the reading ability in the hyperopic children at the Nishikasai Inouye Pediatric Eye Clinic. Mikio tsuruoka1, O. Katsumi1, M. Miyata1, Y. Aoki1, Y. Miyanaga1, K. Inoue4, K. Oda3. 1Nishikasai Inouye Eye Hospital, Tokyo, Japan; 2Nishikasai Inouye Pediatric Eye Clinic, Tokyo, Japan; 3Tokyo Woman’s Christian University, Tokyo, Japan; 4Inouye Eye Hospital, Tokyo, Japan.


6775 — D795 Consumer Digital Cameras: A Feasible Strategy for the Early Detection of Childhood Blindness. Tirth N. Patel1, A.C. Mailipatrun2, A. Merchant1, R. Batte3, K. Nischal1, R.W. Arnold1, V. Naresh1, J. Matula1, H. Dimaras4, B. Galle1. 1ophthalmology, 2Pediatric Ophthalmology, Narayana Nethralaya, Bangalore, India; 3Pediatric ophthalmology, Narayana Nethralaya, Bangalore, India; 4Pediatric Ophthalmology, Childrens Hospital of Pittsburgh, Pittsburgh, PA; 5Pediatric Ophthalmology and Strabismus, Ophthalmic Associates, Anchorage, AK; 6Hematology Oncology, 7Ophthalmology, 8Hospital for Sick Children, Toronto, ON, Canada.

6776 — D796 Natural History And Risk Factors Analysis For Retinopathy Of Prematurity In Premature Infants In Taiwan: A Prospective Study At The Post Beavicaidzum Era. Yi hsiung Chen1, W-C. Wu2. Ophthalmology department, Chang Gung Memorial Hospital, Taoyuan county, Taiwan; 2Ophthalmology, Chang Gung Memorial Hosp, Taoyuan county, Taiwan.


6779 — D799 The Impact Of Amblyopia And Strabismus On Child Development And Quality Of Life In Young Chinese Children. Audrey Chia1, Y. Char1, E. Lamoerreux2, J. Thumboo2, T. Wong2, S. Saw3, 1Pediatric Services, Singapore National Eye Centre, Singapore; 2National University Singapore, Singapore; 3University of Melbourne, Melbourne, Australia; 4Singapore General Hospital, Singapore; 5Singapore Eye Research Institute, Singapore.

6780 — D800 Sibling Motivation Cards - New Screening Initiative in South India for Pediatric Eye Disease. Brinda Mathusamy1, B. Dey2, V. Kannusamy2, F. Moutappa2, H-J. Park1. 1Pediatric Ophthalmology & Strabismus, The Wilmer Eye Institute, Johns Hopkins Hospital, Baltimore, MD; 2Pediatric Ophthalmology & Strabismus, Aravind Eye Hospital, Pondicherry, India.

6781 — D801 Secondary Glaucoma and Pediatric Traumatic Hyphema. Jeffrey SooHoo1, E. McCourt, R. Sands Braverman, R. Enzenauer. Ophthalmology, University of Colorado, Aurora, CO.


6783 — D803 Barriers to Care Following Failure of Population Based Vision Screening. Kristin Rarley, A. Summers, J. Vaughan, L. Reznick. Pediatric Ophthalmology, Casey Eye Institute, Portland, OR.

Hall B/C  D948-D986
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Cornea

556 Corneal Biomechanics II

Moderator: Cynthia J Roberts

6784 — D948 Corneal Biomechanical Properties and their Change with Corneal UV-Riboflavin Cross-linking from 2D Flap-Extensometry. Sabine Kling1, H.S. Ginis2, S. Marcos Celestino1. 1Instituto de Optica, Consejo Superior de Invest Cientificas, Madrid, Spain; 2Institute of Vision & Optics, University of Crete, Heraklion, Greece; 3Instituto de Optica, Consejo Sup de Investi Sci, Madrid, Spain.


6786 — D950 To Evaluate Patient Outcomes Following Epithelium-on CXL In Patients Who Received The Treatment In One Or Both Eyes. Ray Rubinfeld1, W. Trattler2, G. Perez1, C.J. Kaiser1, A. Koreishi2, P. Majnudar6, R.J. Epstein1, S. Bajna6, R. Malahova6. Washington Eye Physicians and Surgeons, Chevy Chase, MD; 1Cornea, 2Center For Excellence in Eye Care, Miami, FL; 6Ctr for Excellence in Eye Care, Miami, FL; 7Cornea Associates of Texas, Dallas, TX; 8Chicago Cornea, Chicago, IL; 9Cleveland Eye Clinic, Cleveland, OH; 6Ophthalmology Associates, St. Louis, MO. *CR, A

6798 — D952 Lack Of Influence Of Corneal Thickness On Biomechanical Waveforms And How That Impact In Distinguishing Candidates For Lasik Or Prk. Marconi R. Sanhiago1,2, R. Ambrosio, Jr.,1 W.J. Dupp1,2 D. Smadja1, E.M. Espana1, S.E. Wilson1. 1Ophthalmology, Cleveland Clinic Foundation, Cleveland, OH; 2Ophthalmology, University of Sao Paulo and Rio Laser, Sao Paulo and Rio de Janeiro, Brazil; 3Ophthalmology, Instituto de Olhos Renato Ambrosio, Rio de Janeiro, Brazil; 4Colec Eye Inst and Lerner Rsch Inst, BColec Eye Center, Durham, NC.

6799 — D961 Changes in Corneal Biomechanics after Descemet Stripping Endothelial Keratoplasty in Fuchs’ Dystrophy. Richard Y. Huang1, B. Goldhagen1, A.N. Kuo1, N.A. Afshari2. 1Ophthalmology, Vanderbilt University, Nashville, TN; 2Ophthalmology, Duke University Eye Center, Durham, NC.

6800 — D964 Changes After Collagen Cross-linking using Supersonic Shear Wave Imaging. David Touboul1, T. Nguyen1, J. Aubry1, J. Gennisson2, M. Tanter2, J.G. Galletti1,2. 1CHU de Bordeaux, Bordeaux, France; 2ECOS (Clinical Ocular Studies) Laboratory, Buenos Aires, Argentina; 3ECS (Clinical Ocular Studies) Laboratory, Buenos Aires, Argentina. ☎

6801 — D965 Natural history of Intacs in keratoconus and corneal ectasia. Jasmin R. Desai1, P.S. Hersh1,2. 1Ophthalmology, Ross Eye Institute, Buffalo, NY; 2Laservision.gr Institute, Athens, Greece.

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. Baur1, I.A. Karamshina1, A.B. Kachanov1, E.B. Voronkova1. 1Theoretical & Applied Mechanics, St Petersburg State University, St Petersburg, Russian Federation; 2St-Petersburg Branch INR &TC, 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 Das1,2, D Kamesh1, S. Morali1, A.A. Vincent1, R. Shetty1, H. Matalia1,8. 1Stem Cell Research Lab, 2Cornea and Refractive Surgery, 3Narayana Nethralaya Post Grad Inst of Ophthalmology, Bangalore, India. ☎

6805 — D969 Implications of New Absorption and Fluorescence Measurements of Riboflavin for Corneal Cross-linking. Pavel Kamaev1, R. Pertab1, M. Friedman1,2, D. Muller1. 1Research, 2Avedro, Waltham, MA. ☎


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

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


6813 — D977 Rapid Collagen Photocross-linking Method to Increase Corneal Mechanical Strength. Irene E. Kochever1, D. Cherfan2, T.E. Gisel1, E.E. Verter1, R.W. Redmond, S. Melki1. 1Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA; 2Medical Sciences Program, Boston University, Boston, MA; 3Boston Eye Group, Boston, MA. ☎


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

6817 — D981 Contralateral Eye Long-term Follow-up Of Prophylactic High-fluence Collagen Cross-linking Combined With Lasik For High Myopia. Kathy M. Traut1, S.L. Wang2, A.J. Kanellopoulos3,1. 1New York University School of Medicine, New York, NY; 2Laservision.gr Institute, Athens, Greece.
Thursday Posters

11:15 am – 1:00 pm

Harquel1A, A. Sauer1A, D. Gaucher1A, C. Speeg-Pterygium Excision. Center, Boston, MA.

Vinciguerra2. Schatz1A, P. Bourgin1B, T. Bourcier1A. of Ophthalmology, BDepartment of Pediatrics, of New Mexico, Albuquerque, NM.

Linda Rose, S. Rivera, J. Byrd. Surgery, University

Ranibizumab to Control Pterygium Recurrences. 6821 Istituto Clinico Humanitas, Milan, Italy.

1Geneva University Hospitals, Geneva, Switzerland.

Type 2 Diabetes.

6823 557 Blood

Hall B/C D1153-D1196

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

Physiology & Pharmacology

557 Blood Flow

Moderator: Leopold Schmetterer

6823 — D1153 Coronary And Retinal Reactivity To Hyperoxia In Prediabetes And Type 2 Diabetes. Mary E. Lott1, B. Smith1, J.E. Slocomb1B, V. Shikumar1, K. Bettermann1, Heart and Vascular Institute, 1Neurology, 1Penn State Milton S Hershey Med Ctr, Hershey, PA.


6825 — D1155 The Diameter Response To L-lactate And The Prostaglandin Analogue U46619 Is Different In Porcine Retinal Arteries And Capillaries In Vitro. Simon M. Pedersen, T. Bek. Dept of Ophthalmology, Aarhus University Hospital, Aarhus, Denmark.

6826 — D1156 Effect of Nitric Oxide Inhalation on Retinal Arteriolar Diameter in Minipigs. Ioannis K. Petropoulos1A, A-L. Martin1B, G. Schmetterer1A,1B. Dept of Ophthalmology, 1Clinical Pharmacology, 1Medical University of Vienna, Vienna, Austria.


6828 — D1158 Measurement of retinal blood flow using dual beam bi-directional Fourier domain Doppler OCT - comparison with laser Doppler velocimetry. Rene M. Werkmeister1A, N. Dragostinoff1A, S. Palkovits1A, R. Told1B, L. Schmetterer1B. Med Physics and Biomed Eng, Clinical Pharmacology, 1Medical University of Vienna, Vienna, Austria.

6829 — D1159 Role of Endothelin-1 in Optic Nerve Head Blood Flow Regulation during Isometric Exercise in Healthy Humans. Agnes Boltz1A,2B, D. Schmidli1, M. Lasta1, S. Kaya1, S. Palkovits1A, R. Told1B, G. Fuchsjaeger-Mayrl1A,2C, G. Garhofer1A, L. Schmetterer1B. Department of Clinical Pharmacology, 1Medical University of Vienna, Vienna, Austria.


6831 — D1161 In Vivo Adaptive Optics Imaging Of Retinal Pericedics And Capillary Blood Velocity In Mice. Jesse B. Schallek1A, Y. Geng1A,2B, D.R. Williams1A,2C. Center for Visual Science, 1The Institute of Optics, 1Flaum Eye Institute, 1University of Rochester, Rochester, NY. *CR

6832 — D1162 Changes in Choroidal and Optic Nerve Head Blood Flow Regulation during an Experimental Increase in Ocular Perfusion Pressure. Doreen Schmidli1, A. Boltz1A,2B, S. Kaya1, R.M. Werkmeister1A, N. Dragostinoff1A, M. Lasta1, E. Polski1, G. Garhofer1A, L. Schmetterer1A,2B. Department of Clinical Pharmacology, 1Center for Medical Physics and Biomedical Engineering, 1Department of Ophthalmology and Pharmacology, 1Medical University of Vienna, Vienna, Austria.

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

6834 — D1164 Hemodynamic and Micrcirculation to Acute Hypotension in Rabbits. Bruce I. Gaynes1, P-Y. Teng1, J.M. Wanek2, M. Shabidi1. Ophthalmology, Loyola University Chicago, Maywood, IL; 1Ophthalmology and Visual Sciences, University of Illinois, Chicago, IL.

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

6836 — D1166 Effect Of Breathing Pure Oxygen And A Mixture Of 92% O2 + 8% CO2 On Flicker Induced Vasodilatation. Stefan Palkovits1A, M. Lasta1, R. Told1B, G. Garhofer1A, L. Schmetterer1A,2B. Clinical Pharmacology, 1Center for Medical Physics and Biomedical Engineering, 1Medical University of Vienna, Vienna, Austria.

6837 — D1167 Quantitative Choroidal Blood Flow Measurement Using Doppler Optical Coherence Tomography With Pulse Synchronization. Masahiro Miura1, S. Makita1, T. Iwasaki1, Y. Yasuno1. 1Dept of Ophthalmology, Tokyo Med Univ, Ibaraki Med Ctr, Inashiki, Japan; 2Computational Optics Group, University of Tsukuba, Tsukuba, Japan.*CR

6838 — D1168 Assessment of Oxygen Saturation in Retinal Vessels of Normal Subjects and Diabetic Patients without Retinopathy using the Johns Hopkins Flow Oximetry System. Rachel E. Annam1, M.A. Ibrahim1, L. Lu1, Y.J. Sepah1, M.G. Bittencourt1, O. Aghedia1, H.S. Jang1, J. Yohannon1, J. Ramelia-Roman1, Q.D. Nguyen1. 1Johns Hopkins University, Wilmer Eye Institute, Baltimore, MD; 2Biomedical Engineering, Catholic University of America, Washington, DC; 3Diseases of the Retina, and Uveitis, Johns Hopkins Univ,Wilmer Eye Inst, Baltimore, MD.

6839 — D1169 Bloodflow Regulation In The Optic Nerve Head During Prolonged Elevation Of The Intraocular Pressure. John V.Lovasik1, H. Kergoat1, M. Parent1, M.G. Quigley1. 1School of Optometry, University of Montreal, Montreal, QC, Canada; 2Department of Ophthalmology, McGill Univ/Univ of Montreal, Montreal, QC, Canada.


6842 — D1172 Basal Blood Flow And Autoregulation Changes Within the Optic Nerve Head Of Rhesus Monkey With Idiopathic Bilateral Optic Atrophy. Chelsea Piper1, B Fortune1, G. Cull1, C.F. Burgoyne1, G.A. Cioffi1, L. Wang1. 1Optic Nerve Head Research Lab, 2Ophthalmal-Discoveries in Sight, 3Devers Eye Institute, Portland, OR; 4Devers Eye Institute, Legacy Health, Portland, OR; 5Devers Eye Institute, Legacy Research Institute, Portland, OR. *CR

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

7844 — D1174 Retinal Arteriolar Reactivity Response Characteristics Assessed Using a Sinusoidal Hyperoxic Provocation. Richard W. Cheng5, J.A. Fisher6, J. Duffin1A, J.G. Flanagan1A, T. Wong7, M. Jong7, S.R. Patel7, A. Adlemann7, C. Hudson4. 1Physiology, 2Ophthalmology and Vision Sciences, 3Medical Science, 4University of Toronto, Toronto, ON, Canada; 5Dept of Ophthalm & Vision Sci, Univ of Toronto,Toronto Western Hosp, Toronto, ON, Canada; 6Vision Science Division, University Health Network, Toronto Western Research Institute, Toronto, ON, Canada; 7School of Optometry, University of Waterloo, Waterloo, ON, Canada. ACRS

7845 — 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. Potts8, L. Kuo9, W. Xu10, T.W. Hein11. 8IBTM, Texas A&M Health Science Ctr, Temple, TX; 9Surgery, Scott & White Memorial Hospital, Temple, TX.

7846 — D1176 Correlation Of Retinitis Pigmentosa Disease Stage With Orbital Color Doppler Imaging. Amani S. Albakri, E. Al-Shahwan, S.R. Nowilaty. Vitreoretinal Division, King Khalid Eye Specialist Hospital, P.O Box 7191, Riyadh 11462, Saudi Arabia.

7847 — D1177 Theoretical Analysis Of Myogenic And Metabolic Responses In Retinal Blood Flow Autoregulation. Julia Arciero1A, A. Pickrell2B, B. SieksylB, A. Harris3. 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.


7849 — D1179 Caffeine Affects Ocular Microrcirculation In Young Healthy Subjects. Naim Terai1A, E. Spoor1B, R.P. Stodtmieer1, L.E. Pillunat4. 1Ophthalmology, 2Dept of Ophthalmology, 3University of Dresden, Dresden, Germany; 4Ophthalmology, University Hospital Carl Gustav Carus, Rodlaven, Germany.


7856 — D1186 Intracocular Vascular Communication Through Collateral Vessels In An Experimental Pig Model. Hakan Moren1A, B. Gesslein1B, P. Uddren1B, S. Andreasson1A, M. Malmsjö1A. 1Ophthalmology, Retinal Vascular Research, Lund University, Lund, Sweden; 2Department of Neuroradiology, Skåne University Hospital, Lund, Sweden.

7857 — D1187 Dorzolamide-induced Vasorelaxation of Porcine Ciliary Arteries is Mediated by Nitric Oxide, SGLTase Inhibitors, T. Beki, T. Simonsson2A, T. Bökl. 1Department of Ophthalmology, Aarhus University Hospital, Aarhus C, Denmark; 2Department of Biomedicine, Aarhus University, Aarhus C, Denmark.


7859 — D1189 Relationship between Subfoveal Choroidal Thickness and Choroidal Circulation in Response to Increased Systemic Blood Pressure Induced by Cold Pressure Test. Kenji Sogawa1, T. Nagaoaka1, T. Tani2, T. Tanano1, T. Omae2, A. Yoshida3. 1Ophthalmology, Asahikawa Medical University, Asahikawa, Japan; 2Ophthalmology, Asahikawa Medical College, Asahikawa, Japan.


7861 — D1191 Time of Collapse of Spontaneous Venous Pulsation. Fabrice Moret4, W.A. Lagrèze5, C.M. Poloschek6, M. Bach7. 4Dept. Visual Function and Electrophysiology, 5Dept. Neuroophthalmology, 6Eye Hospital, University of Freiburg, Freiburg, Germany.


7864 — D1194 Optic Nerve Head Capillaries Blood Oxygenation Following Dynamic Exercise in Human. Vasilie Diaconu, P. Sauvageau, V. Vucea. École D’optometrie, University of Montreal, Montreal, QC, Canada.

7865 — D1195 Age Effects on Retinal Blood Flow Assessed Using Spectral-Domain Optical Coherence Tomography Doppler. Firdaus Yusof2, F. Tayyari3, J.G. Flanagan4, C. Hudson5. 2School of Optometry and Vision Sciences, University of Waterloo, Waterloo, ON, Canada; 3Department of Optometry and Visual Science, International Islamic University of Malaysia, Bandar Indera Mahkota, Kuantan, Malaysia; 4Department of Ophthalmology and Vision Sciences, University of Toronto, Toronto, ON, Canada. ACRS

7866 — D1196 Effect of Slow Releasing Hydrogen Sulfide Donor GYY4137 on Isolated Bovine Ciliary Artery. Madhura S. Kulkarni1, Y. Njie-Mbye2A, C.A. Opere2, M. Whiteman3, S.E. Ohia4. 1School of Pharmacy and Pharmaceutical Sciences, University of Houston, Houston, TX; 2Pharmacy Sciences, Creighton University, Omaha, NE; 3University of Exeter, Peninsula Medical School, Exeter, United Kingdom.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – Refer to Program Number in the Clinical Trial (CT) Registration Index – Travel Grant Awardee
Hall B/C  D1197-D1214

Thursday, May 10, 2012, 11:15 AM-1:00 PM
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 Palioura1A, Y. Gobin, S.E. Brodie1B, I. Dunkel, 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.


6869 — D1199  Intraocular Treatments of a New Orthotopic Primary Human Retinoblastoma Xenograft. Nathalie Cassoux1A, F. Assayag1B, O. Chouchane-Mlik1C, F. Nemat1A, A. Thueau1C, J-J. Fontaine1A, I. Acts1A, L. Desjardins1C, F. Doz1C, D. Decaudin1C. 1Ophthalmology, 2Laboratory of preclinical investigation, 3Department of pathology, 4Ophthalmology, 5Laboratory of pathology, 6New York Eye & Ear Infirmary, 7New York, NY. *CR

6870 — D1200  RXRG Agonist Bexarotene Suppresses Retinoblastoma Growth by Enhancing TRB1 and p53 Tumor Suppressor Activity. Xiaoliang L. Xu1, R. Jia1A, H. Huang1A, W. Joseph1A, N. Zhou1B, D.H. Abramson1A, X. Fan1, S.C. Hsuan1A. 1Department of Pathology, 2Ophthalmic Oncology Service, 3Memorial Sloan Kettering Cancer Center, New York, NY; 4Department of Ophthalmology, Shanghai Jiaotong University, Shanghai, China.

6871 — D1201  The Protein Kinase C (PKC)/Protein Kinase D (PKD)/Steroid Receptor Coactivator (SRC)-3 pathway is an important therapeutic target in Gu-mutant Uveal Melanomas. Vassiliki Poulaiki1, S. Chew1B, B. He2B, V. Eedum1B, D. Bedoya3, M.J. Jager2B, W.W. O’Malley1B, N. Mitsiades3A. 1Ophthalmology, VA Boston Healthcare System, Boston University, Boston, MA; 2Medicine/Molecular and Cellular Biology, 3Molecular and Cellular Biology, 4Youth Institute of Medicine, Houston, TX; 5Graduate Center of Biological Research, New Orleans, LA; 6Ophthalmology, Leiden University Med Center, Leiden, The Netherlands.

6872 — D1202  Periocular Tissue Concentration of Propanolol after Delivery with a Gel-forming Solution. Michael B. Yang1, J. Hao1B, H. Liu1B. 1S. Li1B, 2Abramson Pediatric Eye Institute/ Ophthalmology, Cincinnati Children’s Hospital, College of Medicine, 3Division of Pharmaceutical Sciences/Winkle College of Pharmacy, 4University of Cincinnati, Cincinnati, OH. *CR


6874 — D1204  Nicotinamide Treatment Decreases Secretion of Angiogenic and Inflammatory Cytokines in Uveal Melanoma Cell Lines. Shawn C. Maloney1, S. Hari1, T. Grammer1, E. Antecka1, C. Miyamoto1, M.N. Burnier1B. 1Ophthalmology, 2Department of Ophthalmology, McGill University, Montreal, QC, Canada.


6876 — D1206  Therapeutic Efficacy By Targeting Correction Of Notch1-induced Aberrants In Uveal Tumors. Xiaolin Huang1, L. Wang1, H. Zhang1, Y. Jia1, H. Wang2, X. Zhao1B, G. Qian1A, A.D. Singh1A, S. Ge1, X. Fan1. 1Ophthalmology, Ninth People’s Hospital, Beijing Jiaotong University School of Medicine, Beijing, P.R., China; 2Department of Ophthalmology, Ninth People’s Hospital, Beijing Jiaotong University School of Medicine, Beijing, P.R., China; 3Department of Biochemistry and Molecular Biology, Shanghai Jiaotong University School of Medicine, Shanghai, P.R., China; 4Coe Eye Institute, Cleveland, OH.

6877 — D1207  Towards a Novel Therapy for Uveal Melanoma: Targeting Oncogenic Gaq. Timothy W. Corson1, K. Sishita1. 1Glick Eye Institute, Department of Ophthalmology, Indiana University School of Medicine, Indianapolis, IN.

6878 — D1208  Topical Timolol for the Treatment of Benign Vascular Periocular Lesions. Raymond G. Areaux1, D. Yoo. 1Ophthalmology, Loyola University Chicago, Maywood, IL. *CR

6879 — D1209  Association Of Ocular Findings And Preventive Therapy With Onset Of Cerebral Involvement In Patients With Primary Intracranial Lymphoma. Noriyasu Hashida1, K. Nakai1, N. Oghara1, K. Nishida1. 1Dept of Ophthalmology, Osaka University, Suita, Japan; 2Department of Ophthalmology, Osaka Koseinenkinkai, Osaka, Japan.


6881 — D1211  Precise Modeling of the Eye for Proton Beam Radiotherapy of Intraocular Tumors. Michael B. Rueeggsegger1A, J.H. Kowal1A, 2S. Wolf1A. 3ARTORG Center Ophthalmic Technologies, 4Department of Ophthalmology, 5University of Bern, Bern, Switzerland.

6882 — D1212  In Vivo Confocal Microscopy Study Of Conjunctival Intraepithelial Neoplasia Treated With Interferon-alpha2b. Hyunjoo J. Lee1,2A, D. Dunphy1, M. Daly1, D. Siracuse-Lee1A. 1Ophthalmology, Boston Medical Center / Boston University School of Medicine, Boston, MA; 2Ophthalmology, 3Optometry, 4Veterans Affairs Boston Healthcare System, Boston, MA.

6883 — D1213  Expression Of N-glycolyl Gm3 In Retinoblastoma, A Promising Candidate For Targeted Therapies. Ana Vanesa Torbidoni1, A. Scursoni1, C. Camarero1, G. Chantada1, M.T. de Davila1. 1Hospital de Pediatria Prof. Dr. Juan P. Garrahan, Capital Federal, Argentina.

6884 — D1214  Sulindac Protects RPE Cells Against Oxidative Damage but Enhances the Killing of Retinoblastoma Cells Exposed To Oxidative Stress. Arunoday Sur1A, H.M. Prentice1B, H. Weissbach1B, J.C. Blank1A. 1Integrative Biology Phd Program, Dept of Biology, 2Charles E Schimdt College of Medicine, 3Center for Complex Systems & Brain Sci, 1Florida Atlantic University, Boca Raton, FL; 2Center For Cellular and Molecular Biology, Florida Atlantic University, Jupiter, FL.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures -  Refer to Program Number in the Clinical Trial (CT) Registration Index -  Travel Grant Awardee
Thursday, May 10, 2012, 1:15 PM-3:00 PM
Retinal Cell Biology / Genetics Group

559 AMD/Retinal Degeneration Models

**Moderators:** Martin Paul G Agbaga and William A Beltran


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

**6887** — 1:45  Ibedenone Prevents Retinal Pigmentepitheliومة (RPE) Cells from Oxi


**6889** — 2:15  Integration, Survival and Function of Transplanted RPE Stem Cells into Mouse Models of Geographic Atrophy. C Nathaniel Royal, S.S. Sarfari, C.X. Ruan, H. Hu, S. Habib, J. Kong, G. Fan, S. Nusinowitz, D. Bok, G.H. Travis. 1Jules Stein Eye Institute, 2Human Genetics, 3UCLA School of Medicine, Los Angeles, CA.

**6890** — 2:30  STGD3 Mutant Exerts A Dominant Negative Effect On ELOV4 Enzymatic Activity During VLC-PUFA Biosynthesis. Sreemathi Logan, M-P.G. Agbaga, M.D. Chai, R.S. Brush, R.E. Anderson. 1Cell Biology, 2Ophthalmology, 3University of Oklahoma HSC, Oklahoma City, OK; 4Dean A. McGee Eye Institute, Oklahoma City, OK.

**6891** — 2:45  Cell Death in rd2/rd3 Retina: An Apoptotic Process? Francois Paquet-Durand, S. Bernhard-Kurz, B. Arango-Gonzalez, E. Zrenner, M. Ueffing. 1Experimental Ophthalmology, Institute for Ophthalmic Research, Tuebingen, Germany; 2Experimental Ophthalmology, 3Institute for Ophthalmic Research, 4Centre for Ophthalmology, Tuebingen, Germany; 5Institute for Ophthalmic Research, University Eye Hospital, Tuebingen, Germany.

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Floridian BCD

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


**6895** — 2:00  Numerical analysis of the influence of Intraocular Pressure on the photorefractive keratotomy for myopia correction. Maria A. del Buey, E. Lanchares, J.A. Cristóbal, B. Calvo, F.J. Ascaso, L. Lavilla, C. Palomino, N. Cruz, P. Casas. 1Ophthalmology, Lozano Blesa University Clinic Hospital, Zaragoza, Spain; 2Quiron Hospital, Zaragoza, Spain; 3Mechanical Engineering, University of Zaragoza, Zaragoza, Spain; 4Ophthalmology, Quiron Hospital, Madrid, Spain.


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**Room 114**

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

561 Inflammatory Tissue Damage and Immunoregulation

**Moderators:** Justine R Smith and Henry J Kaplan

**6899** — 1:15  Corneal Transplant Rejection In NIH Miniature Swine Is Associated With Donor-recipient Mismatches In A Region Containing The Homologue Of The Mouse Zfp106 Gene Encoding The H3a Antigen. Susan M. Nicholls, 2012. 1Section of Immunology, National Institutes of Health, Bethesda, MD.

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**7000** — 1:30  In Vivo Imaging Of T Cell Trafficking In Eyes During Spondyloarthritisis. Ellen J. Lee, H. Kim, S.R. Planck, J.T. Rosenbaum, H.L. Rosenzweig. 1Casey Eye Institute, Oregon Health & Science Univ, Portland, OR; 2Ophthalmology, Inje University, Pusan, Republic of Korea.

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**7001** — 1:45  Ifn-γ Is Critical For Disease Pathogenesis In A Spontaneous Mouse Model Of Autoimmune Uveitis. Jun Chen, R. Horai, P. Silver, C-C. Chan, R. Caspi. Lab of Immunology, National Eye Inst/NIH, Bethesda, MD.
6902 — 2:00 Different Subsets Of Tumor-infiltrating Lymphocytes Correlate With Macrophage Influx And Monosomy 3 In Uveal Melanoma. Inge H. Bronkhorst1, T. Vu1, E.S. Jordanova2, G.P. Layten1, S.H. van der Burg1, M.J. Jager1. 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. Nicholson1, A.D. Dick1. 1School of Cellular and Molecular Medicine, University of Bristol, Bristol, United Kingdom.


6905 — 2:45 Decreased Interleukin-27 Expression is Associated with Active Uveitis in Behcet’s Disease. Peizeng Yang1, C. Wang1, Y. Tian1, Z. Ye1, A. Kijlstra1. 1Ophthalmal, The 1st Hosp, Congqing Medical University, Congqing, China; 2Ophthalmal, University Hospital Maastricht, Maastricht, The Netherlands.

Room 305
Thursday, May 10, 2012, 1:15 PM-3:00 PM

Lens

562 Signaling and PCO

Moderators: John W McAvoy and Ales Cvekl


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, Columbus, MO.

6908 — 1:45 Genome-wide Identification Of Genes And MicroRNAs Regulated By Fgfl During In Vitro Lens Fiber Cell Differentiation. Louise V. Wolf1, C.C. Gar1, K. Gueta1, N. Podduttari1, P.S. Zelenka1, R. Ashery-Padan1, J. Zavadil1, A. Cvekl1. 1Ophthalmology & Visual Sciences and Genetics, Albert Einstein College of Medicine, Bronx, NY; 2LMDB, NEI, Bethesda, MD; 3Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel; 4Lanogae Center, NYU, New York, NY.


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

6911 — 2:30 Cataract EPFA2 SAM Domain Mutations Alter Receptor Stability and Function. Jeong Eun Park1, A.I. Son1, R. Hua2, X. Zhang2, R. Zhou1. 1Department of Chemical Biology, Susan Lehman-Cullman Laboratory for Cancer Research, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ; 2McKusick-Zhang Center for Genetic Medicine and State Key Laboratory of Medical Molecular Biology, Institute of Basic Medical Sciences, Chinese Academy of Medical Science & Peking Union Medical College, Beijing, China.

6912 — 2:45 Evaluation Of Doxorubicin Loaded Mepeg-pel Nanoparticle For Prevention Of Posterior Capsular Opacification. Aditya Konar1, R. Guha1, S. Chowdhary1, H. Palui2, A. Mishra2, G.K. Venuganti1, S. Basak1, T.K. Manda1, S. Hazra2, 1ICCB, Kolkata, India; 2Veterinary Surgery & Radiology, 3Veterinary Pharmacology & Toxicology, 4West Bengal University of Animal & Fishery Sciences, Kolkata, India; 5Dean, School of Medical Sciences, University of Hyderabad, Hyderabad, India; 6Eye Bank, Disha Eye Hospital, Barrackpore, India.

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. Eiler1. 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. Lipin1, W.R. Taylor2, R.G. Smith1. 1Department of Biomedical Sciences, Colorado State University, Fort Collins, CO; 2Casey Eye Institute, Ophthalmology, Oregon Health Sciences University, Portland, OR; 3Dept of Neuroscience, University of Pennsylvania, Philadelphia, PA.


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


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. Eiler1. 1BCCN / CIN, 2BCCN / CIN / MPI, University of Tuebingen, Tuebingen, Germany.

6921 — 1:30 Chloroidal thickness associated with spherical equivalent in healthy young adults: The Raine Eye Health Study. Alexander X. Tan1, H. Forward1, C. McKnight4, S. Yazaz1, C. Pennell2, J. Mountain1, T.L. Young2, A.W. Hewitt3, D.A. Mackey1, F.K. Chen1. 1Lions Eye Institute, 2Telethon Institute for Child Health Research, University of Western Australia, Perth, Australia; 3Ophthalmology, Duke University Eye Center, Durham, NC; 4Department of Ophthalmology, Centre for Eye Research Australia, Surrey Hills, Australia.

6923 — 2:00 Central and Peripheral Outer Nuclear Layer Thickness Differences between Myopes and Hyperopes/Emmetropes using Spectral Domain Optical Coherence Tomography. Christopher A. Clark1, A.E. Elsner2, T.Y. Chui3. 1School of Optometry, University of Indiana, Bloomington, IN; 2Optometry, Indiana University, Bloomington, IN; 3Optometry, Indiana University, Bloomington, IN.

6924 — 2:15 Choroidal Changes in Myopic Eyes Affected by Choroidal Neovascularization. Mario R. Romano1,2, M. Rinaldi3, F. Chiosi4, R. dell’Omo2, F. Parmeggiani1, F. Semeraro5, C. Costagliola2. 1Ophthalmology, Istituto Clinico Humanitas, Milan, Italy; 2University of Molise, Campobasso, Italy; 3Ophthalmology, Second University of Naples, Naples, Italy; 4Ophthalmology, university of Ferrara, Ferrara, Italy; 5Ophthalmology, University of Brescia, Brescia, Italy.

6925 — 2:30 Periferal Refraction During Accommodation In Children Treated By Orthokeratology. Zhi Chen, X. Zhou. Ophthalmology & Visual Science, Fudan University EENT Hospital, Shanghai, China.

6926 — 2:45 Association of Paired Box 6 gene with High Myopia in Japanese. Masahiro Miyake1, K. Yamashiro1, H. Nakashishi1, H. Hayashi1, I. Nakata1, Y. Akagi-Kurashige1, A. Tsujikawa1, K. Ohno-Matsui2, M. Mochizuki2, N. Yoshimura1. 1Department of Ophthalmology, Kyoto University Graduate School of Medicine, Kyoto, Japan; 2Department of Ophthalmology, Tokyo Medical and Dental University Graduate School of Medicine, Bunkyo-Ku, Japan.


6928 — 1:30 Long Term Evaluation of the Visual Prognosis in Patients Treated With Dexamethasone Intravitreal Implant (Ozurdex) for Macular Edema Due to Retinal Vein Occlusion. Elad Moisseiev1, M. Goldstein2, M. Waisbourd1, A. Barak1, A. Loewenstein3. 1Ophthalmology, Tel Aviv Medical Center, Tel Aviv, Israel; 2Ophthalmology, Tel-Aviv Medical Center, Tel-Aviv, Israel; 3Ophthalmology, Tel-Aviv Medical Center, Tel Aviv, Israel.

6929 — 1:45 Intravitreal Afiblercept Injection for Macular Edema in Central Retinal Vein Occlusion: 1-year Results of the Phase 3 GALILEO Study. Frank G. Holz1, Y. Ogura2, J. Roider1, J-F. Korobelnik3, B. Stemper5, R. Vitti6, D. Molina1, M. Waisbourd1, A. Barak1, A. Loewenstein3. 1Ophthalmology, Ivey Clinic, University of Bonn, Bonn, Germany; 2Ophthalmology, Nagoya City University Graduate School of Medicine, Nagoya, Japan; 3Klinik fur Ophthalmologie, University of Kiel, Kiel, Germany; 4Service d’Ophthalmologie, Hopital Pellegrin, Bordeaux, France; 5GCD TA NOHI, 6Khayan HealthCare, Berlin, Germany; 7Ophthalmology, Regeneron, Tarrytown, NY; 8Bayer Health Care, Berlin, Germany; 9Global Clinical Development, Bayer HealthCare AG, Berlin, Germany.

6930 — 2:00 Macular Edema After Uneventful Phacoemulsification Detected By Ocular Coherence Tomography (OCT). Luiz Felipe Q. Silveira1, G.A. Pellegrini1, M. Harasawa1, G.A. Carlos1, J.C. Souza1, T. Leite1, G.S. Pierozzi1, A.F. Bordon4. 1Retina, Hospital Oftalmologico de Sorocaba, Sorocaba, Brazil; 2Hospital Oftalmologico de Sorocaba, Indaiatuba, Brazil; 3Retina, Hospital de Olhos de Sorocaba, Sorocaba, Brazil; 4Ophthalmology UNIFESP-EPM, Federal Univ of Sao Paulo, Sao Paulo, Brazil.


6932 — 2:30 Incidence Of Macular Edema (ME) In Fingolimod (FTY720) Multiple Sclerosis (MS) Clinical Program. Marco A. Zarin1, A. Reder1, W. Collins1, G. Francis2, X. Zhang3, L.Y. Kappos1, J. Cohen3. 1Inst. of Ophthalmology & Visual Science, UMDNJ-New Jersey Medical School, Newark, NJ; 2Neurology, University of Chicago, Chicago, IL; 3Novartis Pharm AG, Basel, Switzerland; 4Novartis Pharma AG, Basel, Switzerland; 5University of Basel, Basel, Switzerland; 6Neurology, Cleveland Clinic Foundation, Cleveland, OH.

6933 — 2:45 C-REALITY (Canadian Burden of Diabetic Macular Edema Observational Study). John R. Gonder1, V. Walker2, N. Zaurz3, M. Barbeau1, E. Hemслey3, R. L1, 1Ophthalmology, Ivey Eye Institute, London, ON, Canada; 2OptumInsight, Burlington, ON, Canada; 3Novartis Pharmaceuticals Canada Inc, 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

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Grand A
Thursday, May 10, 2012, 1:15 PM-3:00 PM
Retina
565 Macular Edema

Moderators: Frank G Holz and Edeardo Miden

6934 — 1:15 Socioeconomic Disparity in Access to Eye Care Services among U.S. Adults with Age-related Eye Diseases Emerging during 2002 and 2008. Xinzi Zhang1, P. Nair1, G. Beckles1, C-F. Chou2, L. Geiss1, A. Ryskulova3. 1Division of Diabetes Translation, CDC/Ginn Group AVision Health Initiative, 2CDC, Atlanta, GA; 3AVision Health Initiative, CDC, Atlanta, GA.

6935 — 1:30 Affordability of Cataract Surgery using the Big Mac Index. Jan C. Lansingh1, M.J. Carter2, K.L. Windhop1, J.M. Furtado4. 1Agency for the Prevention of Blindness/VISION 2020, Weston, FL; 2Strategic Solutions, Inc, Cody, WY; 3Casey Eye Institute, Portland, OR; 4Casey Eye Institute, Oregon Health & Science Univ, Portland, OR.

6936 — 1:45 After Multiple Rounds of Mass Drug Administration for Trachoma, are there only “Trachoma families” left? Sheila K. West1, B.E. Munoz2, B.E. Munoz2, C. Gaydos3, T. Quinn1. 1Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD; 2Kongwa Trachoma Project, Kongwa, Tanzania, United Republic of; 3Department of Infectious Diseases, Johns Hopkins University, Baltimore, MD; 4National Institute of Allergy and Infectious diseases, National Institute of Allergy and Infectious diseases, NIH, Bethesda, MD.

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

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Grand B
Thursday, May 10, 2012, 1:15 PM-3:00 PM
Clinical & Epidemiologic Research
566 Health Care Delivery and Economic Research II

Moderators: Astrid E Fletcher and Vaping Jin
Grand D

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

Glucoma / Anatomy & Pathology

567 Molecular and Cellular Mechanisms

Moderators: Abbot F Clark and Rebecca M Sappington

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. Kuehn³, H.D. von Pein¹, B. Dick¹, F.H. Grus¹. ¹Experimental Eye Research Institute, Ruhr University, Bochum, Germany; ²Experimental Ophthalmology, University Medical Center, Mainz, Germany; ³Experimental Ophthalmology, Department of Neuroophthalmology, Mainz, Germany.

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


6944 — 2:00 Overstimulation of TRPV4 in vivo Induces Selective Apoptosis of Retinal Ganglion Cells. An Acute in vivo Experimental Model for Glaucoma. abner m. frye¹, D. Ryskamp², S. Chashan³, A. Jo⁴, D. Krizaj⁵. ¹Moran Eye Institute, The University of Utah, Department of Ophthalmology & Visual Sciences, Salt Lake City, UT; ²ophthal/ophthal Western Hosp, University Toronto, Toronto, ON, Canada.

6945 — 2:15 Anti-Connective Tissue Growth Factor Antibody Therapy Combats Expression of Fibrotic Genes in Glaucoma. Deborah M. Wallace¹, A.F. Clark², N. Oliver³, J.K. Crean⁴, C.J. O’Brien⁴. ¹School Medicine & Medical Science, ²School of Biomolecular & Biomedical Science, Conway Inst., ³University College Dublin, Dublin, Ireland; ⁴Dept. Of Ophthalmology, Mater Misericordiae University Hospital, Dublin, Ireland; ⁵Cell Biology & Anatomy, University of North Texas HSC, Fort Worth, TX; ⁶FibroGen Inc, San Francisco, CA; ⁷ophthal/ophthal Western Hosp, University Toronto, Toronto, ON, Canada. *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. Wood³, C.T. McKeever⁴, C.J. Murphy⁴. ¹School of Veterinary Medicine, ²School of Biomedical Engineering, ³School of Medicine and School of Veterinary Medicine, ⁴University of California Davis, Davis, CA.

6947 — 2:45 Defects In Whole Cell Respiration In POAG Lymphoblasts. Jonathan G. Crowston¹, L. Sheek¹, N.J. Van Bergen⁵, S. Lee⁶, V. Chrysostomou⁷, A.L. Vincent¹, I.A. Trounce¹. ¹Department of Ophthalmology, ²Glucoma Research Unit, ³Centre for Eye Research Australia, East Melbourne, Australia; ⁴Ophthalmology, University of Auckland, Auckland, New Zealand; ⁵Glucoma Research Unit, Centre for Eye Research Australia, Melbourne, Australia; ⁶University of Melbourne, Centre for Eye Research Australia, Melbourne, Australia.

Grand H

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

Retina

568 Retinal Prosthesis II

Moderator: Eberhart Zrenner

6948 — 1:15 Seeing With Subretinal Electronic Implants: Study in Ten Patients With Wireless Implant Alpha-IMS. Eberhart Zrenner¹, K-U. Bartz-Schmidt², F. Gekeler³, U. Greppmaier³, S. Hipp⁴, G. Hoerdt-derfer⁵, C. Kernstock⁶, A. Kusnerik⁷, H. Sachs⁸, K. Stingl⁹. ¹Institute for Ophthalmic Research, Centre for Ophthalmology, Tuebingen, Germany; ²Retina Implant AG, Reutlingen, Germany; ³Mobility Training, Tuebingen, Germany; ⁴Sennelweiss University, Budapest, Hungary; ⁵Städtisches Klinikum Dresden-Friedrichstadt, Dresden, Germany. *CR

6949 — 1:30 Cortical Responses to Repetitive Electrical Stimulation of the Retina using Suprachoroidal Virtual Prostheses. Sam E. John¹, M.N. Shivdasani¹, J.B. Falloni¹, 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. Lieby¹, J.G. Walker¹, A.F. Scott², V. Botea¹, N. Barnes¹. ¹Canberra Research Laboratory, NICITA, Canberra, Australia; ²Engineering, Australian National University, Canberra, Australia. *CR

6951 — 2:00 The influence of visual information on walking behaviour in the Graz Mobility Test. Thomas Georgii¹, D. Ivastinic², M. Brandner¹, R. Hornig¹, M. Velkay-Parel². ¹Ophthalmology, Medical University of Graz, Graz, Austria; ²MI 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. Stanga1,2, J.A. Sahel, Jr3, L. da Cruz4, F. Hafezi5, F. Merlini6, B. Coley7, R.J. Greenberg8, 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, f

6953 — 2:30 Results Update from Second Sight’s Argus® II Retinal Prosthesis Study.  
Mark S. Humayun1, L. da Cruz2, G. Dagnelie3, J.A. Sahel4, P.E. Stanga5, E. Filley6, D. Eliott7, J. Duncan8, R.J. Greenberg9, Argus II Study Group. 1Ophthalmology, Doheny Eye Institute - USC, Los Angeles, CA; 2Moorfields Eye Hospital, London, United Kingdom; 3Lions Vision Research and Rehab Center, Johns Hopkins University, Baltimore, MD; 4Centre Hospitalier National d’Ophthalmologie des Quinze-Vingts, Paris, France; 5Manchester Royal Eye Hospital, Manchester, United Kingdom; 6Retina Foundation of the Southwest, Dallas, TX; 7Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA; 8University of California, San Francisco School of Medicine, San Francisco, CA; 9Second Sight Medical Products, Sylmar, CA. *CR, f

6954 — 2:45 An Eye-surface Conformable Retinal Prosthesis using Liquid Crystal Polymers.  
Joonsoo Jeong1A,1B, S. Lee2, K. Min1A,1B, S. Shin1A,1B, S. Bae3, J-M. Seo3,1A, H. Chung3, S. Kim1A,1B. 1AElectrical Engineering & Computer Science, 1BInter-University Semiconductor Research Center, 1Seoul National University, Seoul, Republic of Korea; 2Department of Neurosurgery, Massachusetts General Hospital, Boston, MA; 3Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea.