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

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

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Download date: 26. Jan. 2020
Thursday
May 10, 2012
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### Thursday, May 10 • Posters

#### 8:30–10:15am

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

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

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

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

Room 114
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Physiology & Pharmacology
503 Gene Therapy and Delivery II

Moderators: Rajendra Kumar-Singh and Muna Naash

5576 — 8:30 A Comparative Evaluation Of Translational Read-through Inducing Drugs For Treatment Of Ush. Kerstin Nagel-Wolfrum1, T. Goldmann1, E. Müller1, N. Overlack1, V. Belakhov2, T. Baasov3, U. Wolfrum1, Cell and Matrix Biology, Johannes Gutenberg University of Mainz, Mainz, Germany; 5Edith and Joseph Fischer Enzyme Inhibitors Laboratory, Schulich Faculty of Chemistry, Technion-Israel Institute of Technology, Haifa, Israel.

5577 — 8:45 Gene Therapy For Choroideremia - Initial Report On A New Clinical Trial. Robert E. MacLaren1,2, M. Groppi1, A.R. Barnard3, T. Tolmachova1, M.J. Durning1, S.M. Downes1, A.J. Lotery4, G.C. Black5, A.R. Webster2, M.C. Seabra6. 1Nuffield Laboratory of Ophthalmology, University of Oxford, Oxford, United Kingdom; 2Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom; 3Molecular Medicine, Imperial College London, London, United Kingdom; 4Ohio State University Medical Center, Columbus, OH; 5Oxford Eye Hospital, Oxford University Hospitals NHS Trust, Oxford, United Kingdom; 6Ophthalmology - Eye Unit, Southampton General Hospital, Southampton, United Kingdom; 7Genetic Medicine, University of Manchester, Manchester, United Kingdom; 8UCL Institute of Ophthalmology, London, United Kingdom.*CR, F

Room 305
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Biochemistry & Molecular Biology
504 Retinal Biochemistry and Gene Expression

Moderators: Deborah Ferrington and Jerome E Roger

5583 — 8:30 The N-fatty Acyl Group In A Bovine Guanylyl Cyclase Activating Protein-1 Provides Intramolecular Tuning Of Its Calcium Sensitivity And Interaction With The Effector Enzyme. Igor V. Peshenko1, E. V. Oshevkaya2, S. Lim2, J.B. Ames3, A.M. Dizhoor4. 1Pennsylvania College of Optometry, Salus University, Elkins Park, PA; 2Department of Chemistry, University of California, Davis, CA.
5584 – 8:45 Alzheimer Retina Pathology in a Novel Animal Model of Neurorhopathy In Diabetes. Peter Frederikse1, R. Kaswala2, W. Klein1, C. Kasiathanan1. 1Pharmacology & Physiology, UMD New Jersey Medical School, Newark, NJ; 2Oral Biology, UMD New Jersey Dental School, Newark, NJ; 3Neurobiology & Physiology, Northwestern University, Evanston, IL.*CR

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


5589 – 10:00 Tet3 is an Essential Epigenetic factor for Eye development. Stephen P. Sugrue1, G. Xu2, Y. Kato1, Y. Xu1, Y. Shi1. 1Anatomy & Cell Biology, University of Florida, Gainesville, FL; 2Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences, Shanghai, China; 3Department of Biomedical Sciences, Florida State University College of Medicine, Tallahassee, FL; 4Endocrinology Division, Brigham and Women's Hospital, Boston, MA.

Room 315

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

505 Lens Cell Differentiation

Moderators: A.S Menko and Roy A Quinlan

5590 – 8:30 Deletion Of Cdk1 In The Ocular Lens Leads To A Disruption Of The Lens Epithelial Cell Proliferation, Differentiation, And Nuclear Retention. Blake R. Chaffee1, M.L. Robinson1, F. Shang1, T. Clement1, M. Eddy1, B. Wagner1, A. Taylor2. 1Zoology, Miami University, Oxford, OH; 2Human Nutrition Res Ctr on Aging, 3Nutrition & Vision Res-USDA-HNRCA, 4Tufts University, Boston, MA; 5National Institute of Environmental Health Sciences, NIH, Research Triangle Park, NC; 6National Institute of Environmental Health Sciences, Research Triangle Park, NC.


5592 – 9:00 Glutaredoxin (Grx2) Gene Knockout Suppresses Fiber Cell Differentiation and Delays De-nucleation of the Mouse Lens. Marjorie F. Loi1, S. Basu1, Y. Yu1, H. Wu1, A. S. Menko1. 1Veterinary Medicine & Biomedical Sciences, University of Nebraska-Lincoln, Lincoln, NE; 2Department of Ophthalmology, University of Nebraska Medical Center, Omaha, NE; 3Pathology Anatomy & Cell Biology, Thomas Jefferson University, Philadelphia, PA.

5593 – 9:15 K6W Mutant Ubiquitin Activates Calpain In Lens. Ke Liu1, A. Caceres1, J. Peng2, 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 Dig-1 and Scrib are Modulators of Wnt/PCP in the Mouse Ocular Lens. Shalini Shatadal1A, R. Rachel1B, A. Griep1A. 1Department of Ophthalmology & Visual Sciences and 2Cell Biology, 3Anatomy & Cell Biology, Thomas Jefferson University, Washington, DC.

5595 – 9:45 Post-translational Modifications of BFS1. 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 Smc2h/smca4 And Brug1/smca4 Are Independently Required For Mouse Lens Morphogenesis. Shuying He1, J. Sun1, J. Kokavec1, T. Stopecta1, A. Skoultchi1, J. Zavadil1, A. Cvekl1. 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 Yin1, A.H. Cetin1, Y. Geng1,2, R. Sharma1,2, K. Ahmad1,2, E.M. Callaway2, D.R. Williams1,2, W.H. Merigan3,4,5,6. 1Center for Visual Science, 2Institute of Optics, 3Flaum Eye Institute, University of Rochester, Rochester, NY; 4Systems Neurobiology Laboratories, Salk Institute for Biological Studies, La Jolla, CA.*CR

5598 – 8:45 In Vivo Chorio-Capillaries Imaging Using Adaptive Optics Optical Coherence Angiography. Kazuhiro Kurokawa, K. Sasaki, S. Makita, Y. Yasuno. Computational Optics Group, University of Tsukuba, Tsukuba, Japan.*CR

5599 – 9:00 Photoreceptor and RPE Disruptions Observed Outside Clinically Visible Geographic Atrophy Lesions in the Living Eye with Fluorescence Adaptive Optics Scanning Laser Ophthalmoscopy (FAOSLO). Ethan A. Rossi1,2, D.R. Williams1,2,3, A. Dubra1,2,4, H. Song1,2, M.A. Falwells1,2,3, L.R. Latchney2,3, M.M. Chang1,2,3,4. 1Center for Visual Science, 2Institute of Optics, 3Flaum Eye Institute, 4University of Rochester, Rochester, NY; 5Ophthalmology, 6Biophysics, 7Medical College of Wisconsin, Milwaukee, WI. *CR

Palm A

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

Visual Psychophysics & Physiological Optics / Multidisciplinary Ophthalmic Imaging Group / Retina

506 Innovative Approaches to Retinal Imaging

Moderators: Barry Cense and Stephen A Burns

5597 – 8:30 In Vivo Optical Recording From Mouse Retinal Ganglion Cells. Lu Yin1, A.H. Cetin1, Y. Geng1,2, R. Sharma1,2, K. Ahmad1,2, E.M. Callaway2, D.R. Williams1,2, W.H. Merigan3,4,5,6. 1Center for Visual Science, 2Institute of Optics, 3Flaum Eye Institute, University of Rochester, Rochester, NY; 4Systems Neurobiology Laboratories, Salk Institute for Biological Studies, La Jolla, CA.*CR

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5600 – 9:15 In Vivo Two-Photon Imaging Of Mouse Retina. Robin Sharma1,2, Y. Geng1,2, L. Yin1, W.H. Merigan1,2, D.R. Williams1,2. 1Center for Visual Science, 2Institute of Optics, 3Flaum Eye Institute, 4University of Rochester, Rochester, NY. *CR

5601 – 9:30 Imaging The Living Human Cone Inner Segment. Ravi S. Jonnali1, O.P. Kocaoğlu1, Q. Wang1, Z. Liu1, D.T. Miller1. 1Program in Vision Science, 2School of Optometry, 3Indiana University, Bloomington, IN.*CR

5602 – 9:45 Measuring Individual Cone Directionalities Using Scanning Laser Ophthalmoscopy. Diego Rativa Millan1, B. Vohsens1. 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, R. K. Sudi1, 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

*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
5610 — 10:00 Pre-operative Visual Acuity and Contrast Sensitivity Deficits in Children with Small, Partial, or Non-Central Cataracts. Eileen E. Birch1, V. Subramanian1, C.S. Cheng1, D. Stager, Jr.1. Retina Foundation of the Southwest, Dallas, TX; Ophthalmology, UT Southwestern Medical Center, Dallas, TX; Pediatric Ophthalmology & Adult Strabismus, Plano, TX.

5616 — 9:45 Invasion of Lymphatic Vessels into the Eye after Open Globe Injury. Ludwig M. Heindl1, J.M. Wessel2, C. Hofmann-Rummelt2, G.O. Naumann1, P.E. Kruse1, C. Carusien2. 1Department of Ophthalmology, University of Cologne, Cologne, Germany; 1Department of Ophthalmology, University of Erlangen, Erlangen, Germany.

5617 — 10:00 Molecular Histopathology Using Gold Nanorods And Optical Coherence Tomography. Jared L. Matthews1, S. Prabhulkar2, A. de la Zerda3, S. Gambhi3, R. Awdeh3. 1Bascom Palmer Eye Institute, Coral Gables, FL; 2Ophthalmology, Bascom Palmer Eye Institute, University of Miami, FL; 3Electrical Engineering and Radiology, 4Bioengineering & Materials Science and Engineering, Stanford University, Palo Alto, CA; 5Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.

Grand B
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Anatomy & Pathology

508 Tumors and Non-neoplastic Lesions: Expanding Frontiers from Histology to Molecular Histopathology and Gene Expression

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


5612 — 8:45 Multi-disciplinary Management Of Eyelid Merkel Cell Carcinoma. Qassem J. Nasser1A, A. Khan1A, W. Morrison1A, T. El-Sawy1A, S. Frank1B, B. Esmaeli1A. 1Section of Ophthalmology, Department of Head and Neck Surgery, 2Department of Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX.

5613 — 9:00 Mir211 Is Dysregulated In Conjunctival Melanocytic proliferations. Alexandre P. Moulin1A, M. Nicolas1, A. Heilpern1, M. Wobig1, J. Grossniklaus1, A. Abdelaziz1. Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.

5614 — 9:15 Lymphoid Enhancing Factor-1 (lef-1) Gene Mutation and Its Differential mRNA Expression in Eyelid Sebaceous Carcinoma. Perumal Jayaraj1A, S. Sen1A, A. Sharma1A, S. Kashyap1A, A. Rai1A, N. Pushker1A, M.S. Bajaj1A, S. Ghose1A, R. Azad1A. 1Department of Ocular Pathology, 2Department of Ocular Microbiology, 3Ophthalmoplasty service, 4Dr.R.P.Centre, 5I.A.I.M.S, New Delhi, India; 6National Centre for Disease Control, New Delhi, India.

5615 — 9:30 Primary Intraocular Lymphoma: A Twenty-year Review Of Incidence, Clinical Features, Treatment And Outcomes. Steve D. Levaesseur1A, L.A. Wittenberg1A, V.A. White1A. 1Department of Ophthalmology & Visual Sciences, 2Department of Ophthalmology & Visual Sciences, 3Department of Pathology, 4University of British Columbia, Vancouver, BC, Canada.

5616 — 9:45 Invasion of Lymphatic Vessels into the Eye after Open Globe Injury. Ludwig M. Heindl1, J.M. Wessel2, C. Hofmann-Rummelt2, G.O. Naumann1, P.E. Kruse1, C. Carusien2. 1Department of Ophthalmology, University of Cologne, Cologne, Germany; 1Department of Ophthalmology, University of Erlangen, Erlangen, Germany.

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5618 — 8:30 Peripapillary Nerve Fiber Layer and Retinal Pigment Epithelium Reflectance Ratio for Glaucoma Diagnosis. Ou Tari1, X. Zhang1, R. Varma1, D. Huang1. 1Casey Eye Institute, Oregon Health & Science Univ, Portland, OR; 2Ophthalmology, USC, Doheny Eye Institute, Los Angeles, CA. *CR, Log


5622 — 8:45 Successful Photoreceptor-Directed Gene Therapy with AAV2/5-hRPGR Reverses Post-Receptorial Remodeling in Canine Models of X-linked RP. Gustavo D. Aguirre1, A.V. Cideciyan2, A.S. Levit1, S. Iwabe1, H. Khamda1, A. Swaroop1, W.W. Hausrath4, S.G. Jacobson2, W.A. Beltran1.
1Clinical Studies, Univ of Penn Sch Veterinary Med, Philadelphia, PA; 2Dept of Ophthalmology, Scheie Eye Institute, Philadelphia, PA; 3Molecular Genetics & Microbio, 4Ophthalmology, University of Florida, Gainesville, FL; 5Ophthalmology, University of Massachusetts Medical School, Worcester, MA; 6N-NRL, Bldg 6, National Eye Institute, Bethesda, MD. *CR

5626 — 9:30 Agreement Between Contrast Sensitivity Perimetry (CSP) And Clinical Measures Of Glaucogamous Damage: Validation Of A Neural Model For A Longitudinal Study. William H. Swanson1, V.E. Malinovsky1, M.W. Duh2, J.K. Torbit1, B.M. Sutton1, R. Malik1. 1School of Optometry, Indiana University, Bloomington, IN; 2Clinical Sciences, SUNY College of Optometry, New York, NY; 3SUNY Eye Institute, New York, NY; 4Glaucoma Research Unit, NIHR Biomed Resrch Ctr for Ophthal, London, United Kingdom.

5623 — 9:45 Are Certain Eye Movement Patterns Linked To Better Face Recognition Performance In Patients With Central Glaucogamous Visual Field Loss? Fiona C. Glen1, D.P. Crabb1, N.D. Smith1, R. Burton1, D.F. Garway-Heath2,3. 1Department of Optometry & Visual Science, City University London, London, United Kingdom; 2NIHR Biomedical Research Centre for Ophthalomy, Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom; 3Institute of Ophthalmology, University College London, London, United Kingdom.

5624 — 10:00 Correlation of Brain Volumes and Functional Deficits in Glaucogamous. Alice L. Williams1, J. Lackey2, S. Wizov3, S. Gatla4, R. Sergot5, T. Chia6, S. Lai7, G.L. Spada8, 1Temple University School of Medicine, Philadelphia, PA; 2Department of Radiology, Thomas Jefferson University, Philadelphia, PA; 3William A. and Anna V. Goldberg Glaucogamous Service, 4Neuro-ophthalmology, 5Wills Eye Institute, Philadelphia, PA; 6Thomas Jefferson University School of Medicine, Philadelphia, PA. *P 10

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. Matsumoto1, M. Roh1, J. Suzuki1, K. Takeuchi1, D. Mantopoulos1, T. Hisatomi1, Y. Ikeda1, J.W. Miller1, D. Vavvas2. 1Angiogenesis Laboratory, Massachusetts Eye and Ear Infirmary, Boston, MA; 2Ophthalmology, Kyushu University, Fukuoka, Japan. *CR

5629 — 9:30 Phenotypic conservation in RPGR mutations. Kari E. Branham1, S. Zahid1, N.W. Khan1, M.I. Othman1, A. Moncrieff1, P.A. Sieving2, A. Swaroop3, K. Jayasundera4, J.R. Heckenlively5. 1Ophthalmology and Visual Sciences, University of Michigan, Ann Arbor, MI; 2N-NRL, Bldg 6, 3National Eye Institute, Bethesda, MD.

5630 — 9:45 CRB2 and CRB1 in Retinal Development and Maintenance. Celso H. Alves1, L. Pelliesser1, B. Park1, A. Sanz Sanz1, S. Beck2, G. Huber2, N. Tanimoto2, M. Garrido2, F. Richard2, 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 Otani1, C. Guo2, A. Oishi2, N. Yoshimura2. 1Ophthalmology, Japanese Red Cross Wakayama Med Ctr, Wakayama, Japan; 2Ophthalmology, Kyoto University, Kyoto, Japan.

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

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

5640 — 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. Lamoureux, III1, J-J. Wang1,2, P. Mitchell1, N. Cheung1, T. Auong1, S. Saw1, C. Cheng1.1 Singapore Eye Research Institute, Singapore National Eye Centre, Singapore, Singapore; 2Centre for Eye Research Australia, University of Melbourne, Melbourne, Australia; 3Centre for Vision Research, University of Sydney, Sydney, Australia; 4Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 5Saw Swee Hock School of Public Health, National University of Singapore, Singapore, Singapore.

5641 — A37 Epidemiology of Chinese Patients in the Ophthalmology Clinic of a New York City Public Hospital. Shie Hong1,2, L. G. Chen1, C. C. Teng1,2.1 Ophthalmology, NYU School of Medicine, New York, NY; 2Einhorn Clinical Research Center, New York Eye and Ear Infirmary, New York, NY.

5642 — A38 Genetic Determinants of Serum Lutein and Zeaxanthin Levels in the Carotenoids and Zeaxanthin Levels in the Carotenoids in Age-Related Eye Diseases. Chitra K. Karki1,5, S.K. Iyengar2, J. C. Kelly3, J. A. Mares2.1 Ophthalmology and Visual Sciences, Johns Hopkins School of Medicine, Baltimore, MD; 2Epidemiology & Biostatistics, Case Western Reserve University, Cleveland, OH; 3Jehn Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA; 4Cancer Prevention Research Program, Fred Hutchinson Cancer Research Center, Seattle, WA. *CR

5643 — A39 Genetic Testing for Myotonic Dystrophy in Early-onset Cataract – 10 years data. Shiao Wei Wong1,2, 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. Kavitha1, P. Sundaresan1, R. Jayathilaka1, D.S. Friedman1, R. Venkatesh1.1 Epidemiology, 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, C. Motter1, S. Szymczak2, D. Stambolian1.1 National 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 a Cone-Rich Retina with a Nocturnal Eye Design Enables Enhanced Resolution of the Retina. Melanie C. Campbell1, M.L. Kistlak1, K. Bunghardt1, E.L. Irving1, N. Gibson1, L. Emptage1, Y. Sause1, V. Choi1. 1Physics & Astronomy/Sch of Optom, 2Physics & Astronomy, 3School of Optometry, 4Psychology, 5University of Waterloo, Waterloo, ON, Canada; 6Dept of Ophthalmology, University of Alberta, Edmonton, AB, Canada.

5654 — A50 Characterization of Diabetic Retinopathy Lesions Using Adaptive Optics Scanning Laser Ophthalmoscopy, Sonja G. Prager1,2, S.H. Radwan1,2, H. Kow1, P.S. Silva1, S.A. Burns1, P.L. 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 retina using adaptive optics. Michel Paques1, 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


5657 — A53 In Vivo Investigation of the Retinal Microvasculature in Patients with Type 1 Diabetes Mellitus. Mariarista Parrantano1, M. Lombardo1, G. Lombardo1, B. Bocaccini1, 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. Akibito Uji1, M. Hangai1, S. Ooto1, T. Murakami1, N. Yoshimura1, H. Imamura1, K. Nozato1. 1Ophthalmology, Kyotou University 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. Krivtsov1, N. Chateau1, J.A. Sahel1, M. Paques1. 1Ophthalmology, Lariboisiere Hospital, University of 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-aoos) With Wide Field Of View. Yoshiyuki Kitaguchi1, T. Fujikado1, H. Kand1, T. Morimoto1, T. Yamaguchi1, T. Mihashi1, K. Nishida1. 1Ophthalmology, Sumimoto hospital, Osaka, Japan; 2Applied Visual Science, Osaka University, Suita, Japan; 3Topcon Rearch Institute, Itabashi, Japan; 4Ophthalmology, Osaka University, Osaka, Japan. *CR

5662 — A58 Foveal Microvasculature And Its Relationship To Retinal Thickness. Toco Y. Chui1, A.E. Elsner2, S.A. Burns4. 1Optometry, Indiana University, Bloomington, IN; 2Optometry, 3School of Optometry, Indiana University, Bloomington, IN.

5663 — A59 Variations Of The Eye’S Image Optical Quality And The Sampling Limit Of Resolution Of The Cone Mosaic With Axial Length. Marco Lombardo1, S. Serrao1, P. Ducoli1, G. Lombardo1. 1IRCCS Fondazione G.B. Bietti, Rome, Italy; 2CNR-IPCF Unit of Support Cosenza, LiCryL Laboratory, University of Calabria, Rende, Italy.

5664 — A60 Distribution of Outer Nuclear Layer Thickness in SD-OCT Images. Joel A. Papay1, C.A. Clark1, T.Y. Chui1, L. Zhao1, A.E. Elsner1. Ophthalmology, Indiana University, Bloomington, IN.

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

5666 — A62 In vivo Imaging of Photoreceptor Loss Associated with Dry Age-Related Macular Degeneration Using Adaptive Optics Scanning Laser Ophthalmoscopy. Adam Boretsky1, F. Khan1, G. Burnett1, R. Harris1, M. Stephens1, M. Chung1, M.M. Chung2, A. Dubra2, M. Stephens1, M. Stephens1, M. Stephens1. 1Flaum Eye Institute, 2Center for Visual Science, 3Institute of Optics, 4Tulane Eye Institute, 5University of Rochester, Rochester, NY; 6Ophthalmology, 7Biophysics, Medical College of Wisconsin, Milwaukee, WI.

5667 — A63 Adaptive Optics Scanning Laser Ophthalmoscopy With Amplitude Pupil Apodization. Jusufu N. Salut1, A. Dubra2, A. Dubra2. 1The Institute of Optics, 2Flaum Eye Institute, 3University of Rochester, Rochester, NY; 4Ophthalmology, 5Biophysics, Medical College of Wisconsin, Milwaukee, WI.


5669 — A65 The Repeatability of Photoreceptor Reflectance Changes in the Living Human Retina. Robert F. Cooper1, J. Rha1, A.M. Dubis2, A. Dubra2, J. Carroll3,4,28. 1Biomedical Engineering, Marquette University, Milwaukee, WI; 2Ophthalmology, 3Cell Biology, Neurobiology & Anatomy, 4Biophysics, 5Medical College of Wisconsin, Milwaukee, WI. *CR


5671 — A67 Retinal Structure and Visual Function in Patients with Blue Cone Monochromatism. Xinda Luer1, A.V. Cideciyan1, A. Samarak1, S.B. Schwartz1, A.J. Romani1, J.B. Goldberg1, B. Baumann1, B. Wissinger2, S. Koh1, S.G. Jacobson1. 1Department of Ophthalmology, Scheie Eye Institute, Philadelphia, PA; 2Center for Ophthalmology, Institute for Ophthalmic Research, Molecular Genetics Laboratory, Tubingen, Germany.

5672 — A68 Assessing the Relationship Between Cone Density and Foveal Morphology. Adam M. Dubis1, S.O. Hansen1, R.F. Cooper1, B.R. Hansen1, J. Carroll1,4,28. 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, E.A. Rossi1, W. Fischer1, A. Dubra2, M.M. Chung1, S.G. Jacobson1, P. Hruby1. 1Flaum Eye Institute, 2Center for Visual Science, 3Institute of Rochester, Rochester, NY; 4Ophthalmology, 5Biophysics, 6Medical College of Wisconsin, Milwaukee, WI.

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

5675 — A71 Fluorescence Adaptive Optics Scanning Laser Ophthalmoscopy Demonstrates Intraretinal Spots and Low Cone Density in Fundus Albinus. Hongxin Song1, D.R. Williams1, L. Latchney1, A. Dubra1, M.M. Chung1. 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 — *CR Refer to Program Number in the Clinical Trial (CT) Registration Index — Travel Grant Awardee
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

5684 — A99 Oscillatory Potential Contribution to the ERG: A New Mean to Identify Disease Onset. Nataly Trang1, M. Gauvin1, R. Koenekoop1, J. Little1, J-M. Lina1, P. Lachapelle1. 1Department of Ophthalmology, Neurology and Neurosurgery, McGill University-Montreal Children’s Hospital Research Institute, Montreal, QC, Canada; 2École de technologie supérieure, Montreal, QC, Canada.

5685 — A100 Topographic Mapping Of Functioning Cone And Rod System In Inherited Retinal Degenerations With Confirmed Gene Mutations. Ieva Sliesoraityte1, E. Troeger1, S. Kohl1, B. Wissinger3A, E. Zrenner3B. 1Department of Ophthalmology, University of Tuebingen, Tuebingen, Germany; 2Institute for Ophthalmic Research, Molecular Genetics Laboratory, Tuebingen, Germany; 3Molecular Genetics Laboratory, Institute for Ophthalmic Research, Tuebingen, Germany; 4Centre for Ophthalmic Research, University of Tuebingen, 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. Robson2,3, A.T. Moore2, A.R. Webster3, G.E. Holder2,3. 1OGVF; 2National Eye Institute, Bethesda, MD; 3Electrophysiology, Moorfields Eye Hospital, London, United Kingdom; 4Institute of Ophthalmology, University College London, 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 Gauvin1,2, J Race1, J. Daloze1, R. Koenekoop1, J. Little1, M. Hebert1, J. Lina1, 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.


5691 — A107 Two New Mutations in RPL11 Gene In Occult Macular Dystrophy Patients Associated with a Dopolaminergic Pattern of Focal Macular ERG. Shuhei Kameya1,2, J. Chung2, F. Hirose3, S. Chang1. 1Department of Ophthalmology, Glostrup Hospital, Glostrup, Denmark; 3Ophthalmology, Lund University Hospital, Odense, Denmark; 2Department of Ophthalmology, Lund University Hospital, Lund, Sweden.

5692 — A108 Cortical Impact of Genetic Retinal Degeneration of Ganglion Cell Origin and With Early Visual Loss. Catarina A. Mateus1, A.A. Reis1,2, J. Castelhano1, E. Silva2, M. Castelo-Branco1. 1Visual Neuroscience Laboratory, IBILI-Faculty of Medicine-University of Coimbra, Coimbra, Portugal; 2Ophthalmology, University Hospital of Coimbra, Coimbra, Portugal.

5693 — A109 Phenotypic Characterization in Two Patients with Identified Rhodopsin Gene Mutation: Impact of Retinal Degeneration on Cortical Structure. Andrea C. Pereira1, C. Mateus1, A. Reis1,2, B. Quendera1, S. Ferreira1, M. Almeida1, E. Silva2, 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.

5694 — A110 Environmental and Therapeutic Approaches to Limit the Consequences of Postnatal Hyperoxia. Allison L. Dorfman1, B. Campanaro1, K. Uy1, A. Polosa1, M. Djavari1, P. Wintermark1, S. Chemtob1, P. Lachapelle1. 1Ophthalmology, 2Neonatology, 3McGill University/Montreal Children’s Hospital, Montreal, QC, Canada; 4Pediatrics & Pharmacology, Research Centre/Ste. Justine Hospital, Montreal, QC, Canada.

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


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


5702 — A117 Effects of Nitric on Flicker ERGs: Application of DFT and T-Circle. Stefanie B. Varghese1, N. Naser1, T.P. Than1, B. Lei1, H. Peng1, J. Yin1, Q. Shi1,2. 1Ophthalmology, The First Affiliated Hospital of Zhejiang University, Hangzhou, China; 2School of Optometry, 1Univ of Alabama at Birmingham, Birmingham, AL, USA.

5703 — A118 The Characteristics Of Cone-driven Oscillatory Potentials In Human Electretinogram. Bo Le1, H. Peng2, J. You3, 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 Electretinograms Using A Chromatic-Achromatic Temporal Compound Stimulus. Neil R. Parry1, I.J. Murray2, A. Panorgas1, D.J. McKeefry1, B.B. Lee3, J.J. Kremer1. 1Vision Science Centre, Manchester Royal Eye Hospital, Manchester, United Kingdom; 2Optometry & Vis Sci, FLS, Univ of Manchester, Manchester, United Kingdom; 3School of Optometry and Vision Science, University of Bradford, Bradford, United Kingdom; 4Biological Sciences, SUNY College of Optometry, New York, NY; 5Dept of Ophthalmology, University of Erlangen, Erlangen, Germany.

5706 — A121 Scleral DepressionDepresses the Photopic ERG. Scott E. Brodie1, J.H. Francis2, B. Murr3, D.H. Abrahamson4. 1Ophthalmology, Mount Sinai School of Medicine, New York, NY; 2Ophthalmic Oncology, Memorial Sloan-Kettering Cancer Center, New York, NY.

5707 — A122 Reproducibility Of Visual Electrophysiology Recordings Between Laboratories: The Importance Of Regular Calibration. Richard P. Hagan1,2, K.J. Quinn1, L. Milner1,2, R.L. Robinson1,2, A.F. Taktak1, A.C. Fisher1,2. 1Department of Medical Physics & Clin Eng, Royal Liverpool Univ Hospital, Liverpool, United Kingdom; 2Clinical Eye Research Centre, Royal Liverpool University Hospital, Liverpool, United Kingdom.


5709 — A124 Temporal Interactions Between the b-wave and d-wave of the Human Electretinogram. pan Shi, K.A. Godwin, P.J. DeMarco. Psychological and Brain Sciences, Pomona, CA.

5710 — A125 Characterising Human L- and M-cone ERGs Using a Four Primary System. Declan J. McKeefry1, N.K. Challal1, I.J. Murray2, J.J. Kremer1, 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. Nagy2, 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. Shen2, X. Tao2, E.L. Smith, III3, Y.M. Chino3. 1College of Optometry, Nova Southeastern University, Plantation, FL; 2College of Optometry, University of Houston, Houston, TX.

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


5715 — A130 Mapping The Spatiotemporal (S-T) Domain And Gain Of Putative M- And P-dominated Lumbs Of The Human Cortical Contrast Response Function (CRF) Using The Sweep Vep (svep). Russell D. Hamer1,2, G.S. Souza1, T.L. Costa1, G.D. Gomes2, L.C. Silva2, D.F. Ventura1,2. 1Departamento de Psicologia Experimental, Instituto de Psicologia, São Paulo, Brazil; 2Smith-Kettlewell Eye Research Institute, San Francisco, CA; 3Instituto de Ciencias Biologicas, Universidade Federal do Para, Pará, Brazil; 4Nucleo de Medicina Tropical, Universidade Federal do Pará, Belém, Brazil.

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

Instituto de Ciencias Biologicas, Universidade Federal do Para, Belem, Brazil.

1Ferkau Grad School of Psychology, Yeshiva University, Bronx, NY; 2Psychology Department, Hunter College, New York, NY; 3VeriSci Corp., Raritan, NJ; 4Nathan Kline Institute for Psychiatric Research, Orangeburg, NY. *CR

5720 — A135 The Step VEP has a Consistent VA Relationship with Psychophysics for all VA, Age, and Aetiology and Increases the Completion Rate of Paediatric VA Assessment to 96%. Alison M. Mackay2, 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. Karouso2.
1Biomedical Sciences, University of New England, Biddeford, ME; 2Oral Biological Sciences, Niigata University, Fukushima, Japan.


5723 — A138 Stimulus Timing-Dependent Synaptic Modification in Rat Visual Cortex Induced by Training Stimuli Paired with Poststimulus Subthreshold Depolarizations. Xuefeng Shi1, K. Zhao1, 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. DiTomasso4.
1Ophthalmology, 2Center for Neuroscience, University of Pittsburgh, Pittsburgh, PA; 3Neurobiology, Harvard Medical School, Boston, MA; 4Dept. of Biomedical Engineering and Center for Cog. Neurosci., Duke University, Durham, NC.

Hall B/C A140-A152
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Visual Neurophysiology
515 Visual Electrophysiology in Disease and Drug Toxicity

Moderator: Carol A Westall, III

5725 — A140 Monitoring Of Patients On Hydroxychloroquine For At Least Five Years: A follow-up of 21 Patients. Daniella Aman1, I. Ingster-Moati2, E. Albuission2, 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-Ies-Nancy, France; 4Department of Ophthalmology, University Hospital, Besancon, France.

5726 — A141 Full-field Electroretinogram Changes In Patients In Therapy With Chloroquine And Hydroxychloroquine: Time And Dose Effect. Giulio Ruberto1, 2C. Tinelli2, R. Piccinni3, L. Bossolesi1A, M. Raimondi1A.
1Ophthalmology, 2Neurology, 3Catholic University, Rome, Italy.

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

5728 — A143 Ganzfeld-electroretinogram In Patients With Coronary Heart Disease. Katja Goebel1, A. Reffken1, H. Drexler2, C. Erb3.
1Ophthalmology, Schloss Park Clinic, Berlin, Germany; 2Ophthalmology, Hannover Medical School, Hannover, Germany; 3Eye clinic, Wittenbergplatz, Berlin, Germany.

5729 — A144 Electrophysiology And Fluorescein And Indocyanine Green Angiography In Susac Syndrome. Julia M. Promesberger1, A.F. Alex1, I. Kleffner1, J-M. Dörr2, N. Eter1.
1Ophthalmology, 2University hospital of Muenster, Muenster, Germany; 3NeuroCure Clinical Research Center, Charité, University hospital of Berlin, Berlin, Germany.

5730 — A145 Flash Electroretinogram In Children With Mitochondrial Disorders. Frederic Nicol1, A. Bron1, C. Creutz-Garcher1, F. Renaud1.
1Ophthalmology, CHU Dijon, Dijon, France; 2Neurophysiology Unit, Hôpital Armand Trousseau, Paris, France.

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. McFarlane1, T. Wright1, C. Westall1.
1Institute of Medical Sciences, University of Toronto, Toronto, ON, Canada; 2Ophthalmology and Vision Sciences, Hospital for Sick Children, Toronto, ON, Canada. *CR

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. Antonello Fadda1, A. Di Renzo1, F. Martelli1, D. Marangoni1, A. Batocchi2, D. Giannini2, B. Falsini3.
1Technologies and Health, Istituto Superiore di Sanita, Roma, Italy; 2Ophthalmology, GB Bietti Eye Foundation-IRCCS, Roma, Italy; 3Ophthalmology, Neurology, Catholic University, Rome, Italy.

1Vision Science, 2Department of Optometry, University of Alabama at Birmingham, Birmingham, AL; 3Ferkau Grad School of Psychology, Yeshiva University, Bronx, NY. *CR

5736 — A151 Evaluation of visual function in patients with Clinical Isolated Syndrome using multifocal visual evoked potentials and optic coherence tomography. Roman Blanco1, C. Perez-Rico2, L. Rubio1, M. Roldan1, L. Ayuso1.
1Departamento de Oftalmologia, HUGU, Sescam/UAH, Spain; 2Departamento de Oftalmologia, Universidad Alcalì, UAH, Spain; 3Departamento de Neurologia, Hospital Principe de Asturias, Alcala de Henares (Madrid), Spain; 4Departamento de Oftalmologia, Universidad de Alcala, Alcala de Henares (Madrid), Spain.

1Ferkau Grad School of Psychology, Yeshiva University, Bronx, NY; 2Psychology Department, Hunter College, New York, NY; 3VeriSci Corp., Raritan, NJ; 4Nathan Kline Institute for Psychiatric Research, Orangeburg, NY. *CR
5738 – 5757 – Thursday – Posters

Clinical & Epidemiologic Research

516 Diabetic Retinopathy Epidemiology

Moderator: Robin D Hamilton

5738 — A256 Efficacy of Diabetic Retinopathy Screenings for Patients Who Were at High-Risk for Sight-Threatening Retinopathy in a County Healthcare System. Glen Y. Ozawa1, T. Litvin1, J.A. Cuadros2, S. Ramaswamy3, M.S. Muller3, A.E. Elicesn2, 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-Nwaobi1, A. Forbes1, S. Sivaprasad2. 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. Waxman1. 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. Kawasak1, T. Nicolaou1, S. Sammugasundaram1, J. Wang2, T. Wong2, E. Lamooreaux3. 1Department of Ophthalmology, Centre for Eye Research Australia, East Melbourne, Australia; 2Department of Ophthalmology, Centre for Vision Research, Sydney, Australia; 3National University of Singapore, Singapore Eye Research Institute, Singapore, Singapore.

5743 — A261 Telemedicine-based Digital Retinal Imaging Improves Diabetic Retinopathy Screening Compliance. Seema Garg1, B. King1, P. Jain1, S. Weir2, T. Kornowski3, S. Li4, E. Chaum1. 1Dept of Ophthalmology, University of North Carolina, Chapel Hill, NC; 2Oak Ridge National Laboratory, Memphis, TN; 3Hamilton Eye Institute, University of Memphis, Memphis, TN.


5746 — A264 An Edutainment Tool for Increased Compliance with DR Screening and Management, Part 2: Efficacy Study. Anne M. Edwards1, G. Zamora1, A. Matiella2, P. Soliz3. 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, G. Bartvasky1, J. Chihara, A. Thiagalingam1, P. Kovoork2, P. Mitchell3. 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. Hoffmann1, A. Green1, M. Nybo2, A. Spolje1, 2. 1Ophthalmology, Centre for Vision Research, Sydney, Australia; 2University of New South Wales, Sydney, Australia.

5750 — A268 Sight impairment certification amongst patients attending diabetic retinopathy screening in East London. Tunde Peto1, R. Bourkiza1, M. Subhash1, J. Da Costa1, D. Qatarneh1, C. Bunce2. 1NIHR Biomedical Research Centre, London, England; 2Dept. of Pathology/Cancer Center, SOM, University of New Mexico, Albuquerque, NM.

5751 — A269 Risk Factors for Prevalence, Incidence and Progression of Diabetic Retinopathy Among Non-insulin Dependent Diabetics in Taiwan. Shwa-Juan Shue1,2, W-L. Ho1,2, J-Y. Lin1, N-C. Liu1, S-C. Chen1, Y-H. Horng1, H-C. Lam1,2. 1Department of Ophthalmology, 2Department of Endocrinology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan; 3Ophthalmology, National Yang Ming University, Taipei, Taiwan.

5752 — A270 The Incidence Of Vitrectomy For The Complications Of Proliferative Diabetic Retinopathy. David H. Steel1,2, D. Veideanu3, S.S. Sandhu4. 1Sunderland Eye Infrmary, 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. Nwanyanwua1, N. Talwar1,2, T.W. Gardner1, J.S. Wrobel2, J.D. Stein1. 1Ophthalmology and Visual Sciences, 2Internal Medicine, University of Michigan, Ann Arbor, MI.

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Hall B/C — A272-A301

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

Retinal Cell Biology / Retina

517 Vascular Mechanisms in Diabetic Retinopathy

Moderator: Nader Sheibani

5754 — A272 Fractur-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 Kanda1,2,3, K. Noda1,2,3, W. Saito4, S. Ishi4,5,6, 2. 1Department of Ophthalmology, 2Laboratory of Ocular Cell Biology & Visual Science, 3Hokkaido Univ Grad Sch of Med, Sapporo, Japan.


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

5760 — A278  Role of Nrf2 in the regulation of diabetic retinopathy. Junsong Gong1, Z. Xu1, Y. Wei2, H. Huang, C. Eberhart1, R. Thimmulappa2, S. Biswal1, E.J. Duhi1. Wilmer Eye Institute, Johns Hopkins Univ School of Medicine, Baltimore, MD; 2Bloomberg School of Public Health, Baltimore, MD.

5761 — A279  Increased Oxygen Saturation In Retinal Vessels Of Patients With Diabetic Retinopathy Requiring Treatment. Christina M. Joergensen1, T. Bek1, S. Haraldson1. Department of Ophthalmology, Aarhus University Hospital, Aarhus C, Denmark; Department of Ophthalmology, University of Iceland/Landspitali, University Hospital, Reykjavik, Iceland.

5762 — A280  Thioredoxin Interacting Protein Is Required For S-glutathionylation And Redox Regulation Of VEGF Angiogenic Signal. Mohammed A. Abdelsaied1, A.B. El-Remessy2,3. 1Clin & Experimental Therapeutics, University of Georgia, Augusta, GA; 2Georgia Health Sciences University, Augusta, GA; 3Georgia Health Sciences University, Augusta, GA.

5763 — A281  Polyamines Contribute to Diabetic Retinal Edema. Bruce A. Berkowitz1,2, L. Hawel, IIF, C. Byus, D.P. Bissig2, R. Roberts1,6. 1Anatomy/Cell Biol & Ophthalmal, 2Anatomy & Cell Biol, 3Wayne State Univ Sch of Med, Detroit, MI; 4University of California, Riverside, Riverside, CA; 5Anatomy and Cell Biology, Wayne State Univ School of Med, Detroit, MI.

5764 — A282  Overexpression of IL-1 Receptor Antagonist in the Retina by a Retina-mediated Gene Transfer Prevents Capillary Loss in Experimental Diabetics. Chiara Gerhardinger1,2, Y. Lu,2, Z. Daghero1. 1Scheeps Eye Research Institute Massachusetts Eye and Ear, Boston, MA; 2Harvard Medical School, Boston, MA.

5765 — A283  Lipoprotein-associated Phospholipase Inhibition Regulates Retinal Vasopermeability During Experimental Diabetics. Alan W. Stitt1, P. Canning1, P.J. Luther1, J.V. Glenn1, L.-D. Allen1, V. Prise1, P.S. Adamson1. 1Centre for Vision & Visual Science, Queens University Belfast, Belfast, United Kingdom; 2Pathology, UCL Institute of Ophthalmology, London, United Kingdom; 3Ophthalmology Discovery Performance Unit, GlaxoSmithKline, Stevenage, United Kingdom. ©CR

5766 — A284  HFD-induced Retinal Microvascular Degeneration: Suggested Role Of Thioredoxin Interacting Protein (TXNIP). Islam N. Mohamed1,2, S. Hafez1,2, M. Abdelsaied2,3, S. Matragoon1,2, B. Pillai1,2, A. Ergul1,2, J.D. Imig3, A.B. El-Remessy1,2,4. 1Clinical and Experimental Therapeutics, University of Georgia, Augusta, GA; 2Vision Discovery Institute; 3Physiology, 4Georgia Health Sciences University, Augusta, GA; 5Pharmacology and Toxicology, Medical College of Wisconsin, Milwaukee, WI.

5767 — A285  Comparison of the Effect of Streptozotocin (STZ)-Induced Diabetic Retinopathy on the Early Electroretinogram (ERG) of Sprague Dawley and Long Evans Rats. Mark Vezina. Ocular And Neuroscience, Charles River Laboratories - Preclinical Services, Senneville, QC, Canada. ©CR

5768 — A286  Chemokine Mediated Monocyte Trafficking into the Retina: Role of Inflammation in Diabetic Retinopathy. Arup Das1,4, S. Rangasamy1, P. McGuire1,2,5. 1MSC10-5160 Surgery, 2Cell Biology & Physiology, 3Univ of New Mexico Sch of Med, Albuquerque, NM.

5769 — A287  Neural And Vascular Gene Expression Changes In The Diabetic Retin. Jennifer C. Lau1,2, R.A. Linsenmeier1,3, J.R. Moskal1,4. 1Pharmacology and Neurobiology, 2Falk Center for Molecular Therapeutics, 3Northwestern University, Evanston, IL.

5770 — A288  Overexpression of ProNGF Induces Apoptosis and Acellular Capillary Formation Via Activation of P75NTR. Azza B. El-Remessy1,2, M.M. Al-Gayyar1, S. Matragoon1, H. Saragovi1,2. 1Clin & Experimental Therapeutics, University of Georgia, Augusta, GA; 2Pharmacology, McGill Univ - Jewish General Hosp, Montreal, QC, Canada.

5771 — A289  Vitreous Biomarker Changes in the Progression from Nonproliferative to Proliferative Diabetic Retinopathy. Stephanie M. Ecker, A.O. Igbre, J.C. Hines, B.M. Glaser, P.M. Lesage, P. Sapieha. 1Oncology & Vascualar Science, 2Biology, 3Ophthalmology, Queens University, Kingston, ON, Canada.

5772 — A290  Intravitreal Anti-vegf Therapy Blocks Inflammatory Cell Infiltration And Microvascular Degeneration: Suggested Role Of Nrf2 in the regulation of Streptozotocin (STZ)-Induced Diabetic Retinopathy. Atsuko Nakazumi1, M. Fukumoto1,4,6, D.G. Purdy1,2,3. 1Ophthalmology & Visual Sciences, 2Molecular & Integrative Physiology, University of Michigan, Ann Arbor, MI.


5774 — A292  Endothelial Mesenchymal Transition in Human Diabetic Epiretinal Fibrosis. Ray Gariano1, L.L. Zheng2. 1Ophthalmology, Scripps Clinic, La Jolla, CA; 2Ophthalmology, Stanford University School of Medicine, Palo Alto, CA.

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

5776 — A294  VEGF B Prevents Tight Junctional Re-organisation In Retinal Pigmented Epithelial Cells Induced by VEGF. Nikita Vd7, J.W. Bainbridge7, D.O. Bates7. 1School of Physiology and Pharmacology, University of Bristol, Bristol, United Kingdom; 2UCL Institute of Ophthalmology, London, United Kingdom. ©


5779 — A297  Adult Endothelial Progenitor Cell Populations: Functional Differences in Diabetic Retinopathy. Sergio Caballero, Jr1, S. Hazrd2, A. Bhawadekar1, S. Li Calzi2, L.J. Paradisio1, L. Miller3, T.S. Kern3, M.B. Grant3. 1Pharmacology & Therapeutics, University of Florida, Gainesville, FL; 2America Stem Cell, Inc., Hotele, TX; 3Department of Medicine, Case Western Reserve University, Cleveland, OH. ©CR

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Thursday – Posters – 5758 – 5781
8:30 am – 10:15 am

Thursday Posters
5782 – 5804 – Thursday – Posters

5782 — A300  Loss of Neuronal Support to the Bone Marrow BM Promotes Increased Generation Of (C-C Motif) Receptor 2 (CCR2) Monocytes And Reduced Endothelial Progenitors (EPC): Implications For Diabetic Retinopathy (DR) Pathogenesis. Maria B. Grant1, A. Bhatwadekar2, P. Hu3, S. Hataz4, S. Caballero1, S. Mober1, S. F. Abcouwer5, D.R. Saban6, T. Channing7, J.V. Busik8.1Pharmacology and Therapeutics, University of Florida, Gainesville, FL; 2Department of Anatomy, University of Sydney, Camperdown, Australia; 3Department of Physiology, 4Physiology, 5Michigan State University, East Lansing, MI; 6Ophthalmology & Visual Science, Univ of Michigan Kellogg Eye Ctr, Ann Arbor, MI; 7Schepens Eye Research Institute, Harvard Medical School, Boston, MA; 8Anatomy, University of Sydney, Sydney, Australia.

5783 — A301  Caspase-14: A Novel Caspase With Potential Role in Diabetic Retinopathy. Sylvia Megyerd1, S. Ahmad1, S. Hsu1, Z. Gurel2, E.S. Shin3, N. Shebani1, M. Al-Shahrwan1,2,3,4.1Oral Biology and Anatomy, 2Ophthalmology, 3Georgia Health Sciences University, Augusta, GA; 4Ophthalmology and Visual Sciences, University of Wisconsin, Madison, WI.

Hall B/C  A338-A370
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Retina
518 Retinal Detachment II

Moderator: Cesare Mariotti

5784 — A338  Primary Repair of Rhegmatogenous Retinal Detachment with 23-Gauge Transconjunctival Vitrectomy. Ricardo Valdes1, O. Ramirez2, F. Ochoa3, J. Trujillo2.1Clinica Ver Bien, Pereira, Risaralda, Colombia; 2Clinica Ver Bien, Armenia, Quindio, Colombia.


5786 — A340  The Outcome of vitrectomy for chronic diabetic tractional retinal detachment. Muneeza A. Abuqamja1, H.N. Al-Shamsi2, H. Al-Dhibi3, N.G. Ghazzi4.1Ophthalmology Residency Program, King Saud University, Riyadh, Saudi Arabia; 2Vitreoretina, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia.

5787 — A341  Evaluation of Retinectomy in the Treatment of Severe Retinal Detachment. Thais S. Mendes1, A.M. Gomez1, H.V. Pazzos1, A. Baptista1.1Ophthalmology, Suel Abujama Institute, Sao Paulo, Brazil; 2Ophthalmology, University of Sao Paulo, Sao Paulo, Brazil.

5788 — A342  Influence Of Intracocular Tamponade On Unintentional Retinal Displacement After Standard Vitrectomy For Rhegmatogenous Retinal Detachment. Giovanni Fogliato1, M. Codenotti1, G. Maestranzi1, U. De Benedetto2, L. Iuliano1, G. Querques1, M. Prati1, A. Ramoni2, F. Bandello2. Department of Ophthalmology, University Scientific Institute San Raffaele, Milan, Italy; 3C.R.


5790 — A344  Sustained-release Intravitreal Dexamethasone As A Surgical Adjuvant In The Repair Of Complicated Retinal Detachment With Proliferative Vitrectoretinopathy. Ryan W. Shulz1, S. Bakri1, R. Iezzi1. Ophthalmology, Mayo Clinic, Rochester, MN.

5791 — A345  Triamcinolone-Assisted Intracapillary Membrane Peeling During Primary Rhegmatogenous Retinal Detachment Repair Reduces Postoperative Macular Pucker Formation. Rajesh C. Rao1, K.J. Blinder1, G.K. Shaht1. 1Ophthalmology and Visual Sciences, Washington University School of Medicine, The Retina Institute, Saint Louis, MO; 2The Retina Institute, Saint Louis, MO.

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

5793 — A347  Air as Tamponade for Retinal Detachments. Aranzazu Mateo Montoya1, M.A. de Smet2.1St Paul’s Eye Unit, Liverpool, UK; 2Ophthalmology, Doheny Eye Institute, Keck School of Medicine, University of Southern California, Los Angeles, CA.


5795 — A349  Hole Position In Rhegmatogenous Retinal Detachment: A Analysis Of Mustard, A Retrospective Interventional Case Series Of 4325 Participants In Relation To The Lincoff-rules1. Ulrich Thelen1, H. Gerding2.1Ulrich Thelen, H. Gerding. 1Private Practice, Munster, Germany; 2Department of Ophthalmology, Hospital S Joao Porto, Porto, Portugal; 3Ophthalmology, Hospital S Joao, Porto, Portugal.

5796 — A350  Retinal Detachment from Guttering also a Problem after Vitrectomy. Milad Hakimbashi1, P. Amini1, A. Khatebi1, M.H. Goldbaum1. 1Ophthalmology, Univ of California, San Diego, La Jolla, CA; 2Ophthalmology, Univ of California-San Diego, La Jolla, CA.

5797 — A351  Significant Compliance Improvement For Patients Lying Postoperatively In “Face-down-position” After Vitrectomy And Gas Tamponade. Henrik F. Schaef er1, P. Singh1, M. Koss1, F. Frank2. 1Retina department, Johann Wolfgang Goethe-University, Frankfurt am Main, Germany; 2C.R.

5798 — A352  The Effect Of Retinal Detachment On Retinal Oxygenation. Alexander Kyhnel1, III, S. Traustason1, J. Hajari1, J. Kiltgaard1, E. Stefanson2, M. La cour1. 1Ophthalmology, Glostrup University Hospital, Glostrup, Denmark; 2Department of Ophthalmology, Landskab University Hospital, Rokyvik, Iceland.

5799 — A353  Pockets of Subretinal Fluid after Retinal Reattachment Surgery: New Insights with SD-OCT. John B. Miller1, R.C. Rao2, N. Choudhry3, D.M. Wu4, G.K. Shaht5, D. Vavvas6, S. Mukai7, D. Eliott1. 1Harvard Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 2Department of Ophthalmology and Visual Sciences, Washington University School of Medicine/The Retina Institute, St. Louis, MO; 3Doheny Eye Institute, University of California, Los Angeles, CA; 4Barnes Retina Institute, Town and Country, MO.

5800 — A354  Macular Effects of Silicone Oil Tamponade: Optical Coherence Tomography Findings During and After Silicone Oil Removal. Danielle M. Lo1, L. Olmos, A.A. Fawzi. 1Ophthalmology, Doheny Eye Institute, Keck School of Medicine, University of Southern Ca, CA.


5802 — A356  Foveal Architectural Changes in Rhegmatogenous Retinal Detachment as Detected by Intraoperative Optical Coherence Tomography. Matthew P. Ohr1, S. Srivastava1, P. Kaiser1, G. Smith1, J.P. Ehlers1. Ophthalmology, Cleveland Clinic, Cleveland, OH.

5803 — A357  Investigation Of Subretinal Fibrosis In Rhegmatogenous Retinal Detachment With Spectral Domain Optical Coherence Tomography. Ping Hou1, X. Mai1, J. Zheng2, H. Chen3. 1Joint Shantou International Eye Center, Shantou, China; 2Ophthalmology, Shantou University Medical College, Shantou, China.

5804 — A358  Autofluorescence Image Intensity Segmentation And Analysis Of Macular Geometry Indices Against Microperimetry And Sdoct Ultra Structural Findings In Patients With Successfully Repaired Rhegmatogenous Retinal Detachments. Marco F. Vieira1, M. Falcao2, P. Brandao1, A. Brito1, A. Sousa1, P. Faria1, N. Gomes1, E. Brandao1, F. Falcão-Reis. 1Ophthalmology, Hospital S Joao Porto, Porto, Portugal; 2Ophthalmology, Hospital S Joao Porto, Porto, Portugal.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures  –  † Refer to Program Number in the Clinical Trial (CT) Registration Index  –  *CR Travel Grant Awardee  360

5806 — A360 Retinal Cell Layer Measurements in Patients After Successful Macula-off Retinal Detachment Repair and in Healthy Controls using a new OCT Sub-segmentation Algorithm. Marcel N. Menke1, J.H. Koval1, P. Dufour2, U.E. Wolf-Schnurrbusch1, L. Ceklic1, S. Wolf1. 1Dept of Ophthalmology, University of Bern, Bern, Switzerland; 2Ophthalmic Technologies, ARTORG Center, Bern, Switzerland.

5807 — A361 Foveal Thickness After Surgery In Eyes With Retinal Detachment, gaku terauchi1, C.S. Matsutomo1, E. Watanabe2, K. Shinoda1, H. Matsumoto1, T. Kondo1, A. Mizota1. 1Ophthalmology, Teikyo University School of Medicine, Tokyo, Japan; 2Ophthalmology, Teikyo University, Itabashi-ku, Japan; 3Matsumoto Eye Clinic, Tokushima, Japan; 4Ophthalmology, University Of West Verginia, Morgantown, WV.


5809 — A363 Prognosis Factors Of Rhegmatogenous Retinal Detachments Associated With Giant Tear. Mounir Benzerroug1, B. Chanaoui2, O. Genevois3, G. Brassier2, S. Milazzo1, M. Maraine1. 1Ophthalmology, Amiens University Hospital, Amiens, France; 2Ophthalmology, Rouen University Hospital, Rouen, France.


5812 — A366 Retinal Detachment In Coats’ Disease In Infants. Emmanuel L. Bui Quoc1, G. Dethorey2, E. Costantini1, J. Josger-Moati1. 1Ophthalmology, Hospital Robert Debry, Montrouge, France; 2Service 5, CHNO des 15-20, Paris, France; 3Ophthalmology, Univ Paris 7 Diderot, Hopital Necker, Paris, France.

5813 — A367 Use of Silicone Oil for Complex Retinal Detachment in Pediatric Population. Krishnapriya kalyan1, P. Emani1, D. Shah1, K. Gorakanti1, M.A. Zarbin1, N. Bhagat4. 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

519 Laser/Choroidal Neovascularization/Retina-RPE Transplantation

Moderators: Liithen Wu and Demetrios Varvass


5818 — A438 In vivo Retinal Laser Lesion Formation with Simultaneous Adaptive Optics Enhanced Confocal Scanning Laser Ophthalmoscopy (AOcSlO) and Spectral Domain Optical Coherence Imaging (AO-SDOCT). Ginger M. Pocock1, J.W. Oliver1, C.A. Harbert1, G.D. Noojin1, K.J. Schuster1, A. Shingledecker1, D.J. Stolarstki1. 1Air Force Research Laboratory, Fort Sam Houston, TX; 2Biomedical Engineering, The University of Texas at Austin, Austin, TX.


5820 — A440 Laser Titration Algorithm For Minimally-traumatic, Sub-visible And Sub-lethal Retinal Phototherapies. Daniel Lavinsky1,2,3, S. Sramek1, Y. Mandel1,2,3, P. Huie1, D.V. Pulanker4,6,2,3. 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. Mcclements3, R. Scott1, R.E. MacLaren4. 1Nuffield Laboratory of Ophthalmology, University of Oxford, Oxford, United Kingdom; 2Royal Centre for Defence Medicine Institute of Research & Development, Birmingham, United Kingdom.


5823 — A443 Image Guided Navigated Retinal Laser Treatments Using Multiple Image Modalities. Igor Kozak1, J. Chhablani2, G. Bartessell1, D.U.G. Bartsch1, W.R. Freeman1. 1Ophthalmology, University of California San Diego, La Jolla, CA; 2Ophthalmology, Shiley Eye Center, UCSD, La Jolla, CA; 3Ophthalmology, Univ of California-San Diego, La Jolla, CA; 4Ophthalmology, UCSD Jacobs Retina Center, La Jolla, CA. *CR

5824 — A444 Nd-yag Laser Arteriotomy For Central Retinal Artery Occlusion (crao). Clayton Scanlon1, M. Currie1, A. Grant1, E.N. Cetin1, L. Akduman1. 1Ophthalmology, Saint Louis University Eye Institute, Saint Louis, MO; 2Ophthalmology, Washington University, Saint Louis, MO. *CR

5825 — A445 Effects of LMP7 Subunit Knockout Immunoproteasome on the Laser-Induced Chorioretinal Neovascular Model in Mice. Justin C. Koh1, A.A. Rageh1, D.A. Ferrington1, S.R. Montezauna1. 1Ophthalmology, University of Minnesota, Minneapolis, MN.

5826 — A446 Impact of Endothelial-specific NFκ-B Signaling on Choroidal Neovascularization. Sousa Zandi1,2, S. Nakao1, D. Sun1, R. Schmidt-Ullrich1, A. Schering1, F. Hafezi1, 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. Kamei1, 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.

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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. Boosani3. 1Genetics' Retinal Cell Signaling, Boys Town Nati Res Hospital, Omaha, NE; 2Genetics, Boys Town Nth Research Hosp, Omaha, NE.

5830 — A450 Topical NPD1 Promotes Microglia Ramiﬁcation in Experimental CNV. Krishnamoorthy G. Sheets1,2, W.C. Gordon3, N.G. Bazan3. 1Neuroscience Center, 2Ophthalmology & Neuroscience Center, 3LSU Health Science Center, New Orleans, LA.

5831 — A451 Selective Cre/lox FLt-1 Ablation In RPE Induces CNV: A Novel Transgenic Murine CNV Model. Ling Lao1, T. Olsen1, X. Zhang1, S. Dus1, H. Uehara1, N. Singh1, T. Miyat, B. Archer2, Y.Z. Le2, B.K. Ambati1. 1Moran Eye Center, Salt Lake City, UT; 2Department of Ophthalmology, The 306th Hospital of PLA, Beijing, China; 3Department of Medicine and Harold Hamm Oklahoma Diabetes Center, University of Oklahoma Health Sciences Center, Oklahoma City, OK.


5833 — A453 Inhibitory Effect of CXCR4 Inhibitor (AMD3100) Combined with Anti-VEGF Antibody on Laser-induced Experimental Choroidal Neovascularization. Wenqiu Wang, E. Wang, X. Sun. Shanghai Key Laboratory of Ocular Fundus, Shanghai First People’s Hospital, Shanghai, China.


5835 — A455 Long Term Results of Photodynamic Therapy in Patients with Age Choroidal Neovascularization Secondary to Age Related Macular Degeneration. Amy Chawla1, J.T. Thompson2, R.J. Sjaarda1. 1Ophthalmology, University of Maryland, Baltimore, MD; 2Ophthalmology, Retina Specialist, Baltimore, MD. *CR

5836 — A456 Functional Recovery After Experimental RPE Debridement, mfERG Studies in a Porcine Model. Jens F. Killigaard2, N. Sorensen1, M.V. Kybör1, N. Lassotte1, J.U. Prasse1, M.D. de la Cour2. 1Dept of Ophthalmology, Rigshospitalet, Copenhagen, Denmark; 2Dept. of Ophthalmology, Glostrup Copenhagen Univ. Hospital, Glostrup, 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, Bioocomplexity Institute, Bloomington, IN.

5838 — A458 Transplantation of Human ESC-derived RPE into Rodent Models of Retinal Degeneration. Madalena Carido1, Y. Zhu2, T. Benker2, T. Kurth1, T. Munch1, E. Tanaka1, M. Ader1. 1Center for Regenerative Therapies Dresden, Dresden, Germany; 2Werner Reichardt Center for Integrative Neurosciece, Tusingen, Germany.

5839 — A459 Transplantation of Human Embryonic Stem Cell-derived Retinal Cells Into the Subretinal Space of a Non-Human Primate. Jennifer R. Chao1, D.A. Lamba2, T. Klesert1, K. Sertiha, R. Taylor1. 1University of Washington, Seattle, WA; 2Buck Bioengineering, CDept of Biological Structure, University of Washington, Seattle, WA; 3Buck Institute for Research on Aging, Novato, CA; 4Ophthal, 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. Sheridan1, V. Kearns2, R. Williams1, D. Wong2, K. Vasilyev2, A. Bachula3, A.C. Lo2, W.W. Lau2. 1Eye Institute, 2Research Centre of Heart, Brain, Hormone and Healthy Aging, 3The University of Hong Kong, Hong Kong, Hong Kong; 4Eye and Vision Science, University of Liverpool, Liverpool, United Kingdom; 5Mawson Institute and School of Advanced Manufacturing, University of South Australia, Mawson Lakes, Australia.

5841 — A461 Cell-based Therapy In A Mouse Model Of Leber Congenital Amaurosis. Yi-Sheng Chang1, W. McIntosh Ambrose2, C. Lin1, H. Qian1, T. Li1, T. Cogniat1, A. Swaroop1. 1National Eye Institute, National Institutes of Health, Bethesda, MD; 2Department of Ophthalmology, National Cheng Kung University, Tainan, Taiwan.


5844 — A464 Repeated Ab-Externo Catheterization of the Sub-retinal Space Using a Microcatheter for Targeted Delivery of a Cell Therapy Product in a Pig Model. Marc D. de Smet1, S. Wyse1, M. Vezina2, S. Conston3, C. Sachs4, S.H. Popma1. 1Ophthalmology, Clnique de Montchoisi, Lausanne, Switzerland; 2Preclinical Services, Charles River Laboratories, Montreal, QC, Canada; 3Science Interventional, Menlo Park, CA; 4Janssen Pharmaceuticals Companies of Johnson & Johnson, Radnor, PA. *CR

5845 — A465 Correlation Of The Detection Of Blood Flow In An RPE-chorioid Graft With Phase-resolved Doppler OFDI, With The Revascularization Steps Found On SD-OCT. Elsbeth J. Van Zeeburg1,2, B. Braaf, M.G. Cereda, J.C. van Meurs3, J.F. de Boer4. 1The Rotterdam Eye Hospital, Rotterdam, The Netherlands; 2Rotterdam Ophthalmug 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 Navigas 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 Thumman, 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. Mandep S. Singh1, E.J. Lee, H.E. Jones, B. Ahmed1, I.M. Andolina1, P.M. Munro3, K.L. Grieve4, G.W. Aylward1, A.M. Sillito, R.E. MacLaren2. 1University of Oxford & Oxford Eye Hospital NHIR Biomedical Research Centre, Oxford, United Kingdom; 2UCL Institute of Ophthalmology & Moorfields Eye Hospital NHIR Biomedical Research Centre, London, United Kingdom; 3Faculty of Life Sciences, University of Manchester, Manchester, United Kingdom.
Thursday Posters

5876 – 5887 – Thursday – Posters

5876 — A487 Outcome of Laser Treatment of AP-ROP in Extremely Premature Infants. Glen A. Gold1,2, D.J. Guan1, D. Cartwright1.
Ophthalmology, Royal Childrens Hospital, Brisbane, Australia; 2 Paediatrics and Child Health, University of Queensland, Brisbane, Australia; 3 Neonatology, Royal Brisbane and Women’s Hospital, Brisbane, Australia.

5878 — A489 New Insights in Retinal Vascular Morphology in Neontates with Congenital Heart Disease. Axel Orozco-Hernandez1, F. Schooneveld2, J. Mercado2, R. Chan3, V. Morales-Canton1, G. Garcia-Aguirre1, M. Martinez-Castellanos1. 1Retina, APEC, Mexico City, Mexico; 2 Neonatal Intensive Care Unit, Instituto de Salud del Estado de Mexico, Toluca, Mexico; 3 Retina, New York Presbyterian Weill Cornell Medical College, New York, NY.

5879 — A490 Analysis of Postnatal Weight Gain for the Prediction of Severity of Retinopathy of Prematurity. Patricia Butke.
Ophthalmology, San Antonio Military Medical Center, San Antonio, TX.

5877 — A491 Smedrop - A National Quality Register For Retinopathy Of Prematurity - Makes It Possible To Improve Screening Criterias forROP in Sweden. Gerd Holmstrom1, A. Hellstrom1, P. Jakobsson1, P. Lundgren1, K. Tornqvist5, A. Wallin6. 1Ophthalmology, Uppsala University, Uppsala, Sweden; 5 Ophthalmology, Linkoping University, Linkoping, Sweden; 6 Ophthalmology, Norrland’s University Hospital, Umea, Sweden; 2 Ophthalmology, Lund University Hospital, Lund, Sweden; 3 Ophthalmology, St Eriks Eye Hospital, Stockholm, Sweden.

5872 — A492 Improving The Fit In Logistic Regression Models Of Retinopathy Of Prematurity: The Square Of Birth Weight As A New Covariate Of Risk. Simon Dubik1, C.N. Igle1, R.L. Holder1, L. Butler2. 1 Birmingham & Midland Eye Centre, City Hospital, Birmingham, United Kingdom; 2 Department of Primary Care, University of Birmingham, Birmingham, United Kingdom.

5873 — A493 Macular Pigment Imaging in Infants and Children Using the RetCam. Paul S. Bernstein1, M. Sharifzadeh2, A. Liu1, J. Ernakov2, K. Nelson1, X. Sheng2, C. Panish1, B. Carlstrom1, R.O. Hoffman1, W. Gellermann1. 1 Ophthalm and Visual Sciences, Univ of Utah/Moran Eye Center, Salt Lake City, UT; 2 Physics, 3 Pediatrics, 4 Univ of Utah, Salt Lake City, UT. 3 CR

5874 — A494 Description Of A Technique To Make Stereo Ocular Images And Retina Angiograms Using The Retcam II In Pediatric Patients. Victoria Gonzalez1, F. Schooneveld2, Y. Morales-Canton1, M.A. Martinez-Castellanos1. 1 Ophthalmology, Asociacion Para Evitar la Ceguera, Mexico, D.F., Mexico; 2 Retina, Assoc para Evitar la Ceguera, Mexico, Mexico; 3 Retina, Assoc para Evitar la Ceguera, Mexico, Mexico; 4 Ophthalmology, Instituto de Salud del Estado de Mexico, Toluca, Mexico; 5 Retina, New York Presbyterian Weill Cornell Medical College, New York, NY.


5876 — A496 Digital Imaging Identification Of Skip Lesions In Laser Treatment Of Retinopathy Of Prematurity. Robison V. Chan1, K.B. Kang2, A. Orlis1, M.F. Chiang1, T.C. Lee1. 1 Ophthalmology, Weil Cornell Medical College, New York, NY; 2 Ophthalmology and Medical Informatics, Casey Eye Institute, Oregon Health & Science University, Portland, OR; 3 Ophthalmology, Childrens Hospital Los Angeles, Los Angeles, CA. 3 CR

5877 — A497 Comparison Of Neurodevelopmental Outcomes In Two Retinopathy Of Prematurity (ROP) Cohorts: Standard vs Revised Oxygen Saturation Protocol Groups. Tamara J. Lee1, J. Bernardo1, C. Code1, E. Kim1B, Y. Chang1B, S. Kim1A. 1Ophthalmology, Catholic University of the Sacred Heart, Rome, Italy; 2 School of Optometry & Vision Science, University of the Sacred Heart, Rome, Italy.


5882 — A502 Arginase 2 Deficiency Limits Microglia/Macrophage Activation and Prevents Hyperoxia-induced Vascular Injury in the Mouse Retina. Junatam Sianwanpradit1, Z. Xu2, S.P. Narayanan2, R.W. Caldwell3, R.B. Caldwell1,2. 1 Vascular Biology Center, 2 Department of Pharmacology and Toxicology, 3 Georgia Health Sciences University, Augusta, GA; 4 VA Medical Center, Augusta, GA.

5883 — A503 Genetic Deletion or Pharmacological Inhibition of Aldose Reductase Protects the Retina in a Mouse Model of Ischemia-induced Retinopathy. Zhongjie Fu1, S-Y. Li1, S. Chung1,2, D. Wong1, A.C. Lo1,2,3. 1 Eye Institute, 2 Anatomy, 3 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.


5886 — A506 Dark Rearing (DR) as a means of mimicking ‘Physiological Hypoxia’: A rationale for non-invasive treatment of Retinopathy of Prematurity. Samuel J. Adamsom1, P. Kozulin2, R. Maccarone1, S. Yun1, P. Hu3, S. Bist1, J. Provist4, M.C. Madigan1, J. McColm5, T. Chan-Ling6. 1 Department of Anatomy & Histology, The University of Sydney, Sydney, Australia; 2 ARC Centre of Excellence in Vision Science, Australian National University, Canberra, Australia; 3 Biomedical & Science Technology, University of L’Aquila, L’Aquila, Italy; 4 School of Optometry & Vision Science, University of NSW, Sydney, Australia.

5887 — A507 Role of the Krebs Cycle Metabolites in Retinal Angiogenesis: Implication of α-KG and its Receptor GPR99. Francois Duhame1, S. Tremblay1, K. Zanololi1, S. Papiha1, S. Chenot1. 1 Pharmacology, Ste-Justine Hospital Research Center, Montreal, QC, Canada; 2 Ophthalmology, University of Montreal, Montreal, QC, Canada; 3 Pediatrics & Pharmacology, Research Ctr/ Hosp Ste Justine, Montreal, QC, Canada.

*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures  * Refer to Program Number in the Clinical Trial (CT) Registration Index  * Travel Grant Awardee
5890 | A Novel Model Of Retinopathy In Normobaric Hyperoxia


1Ophthalmology, Isparta Military Hospital, Isparta, Turkey; 2Biochemistry, Ophthalmology, 3Biophysics, School of Medicine, Gulhane Military Medical Academy, Ankara, Turkey; 1Immunology, Gazi University of Medicine, Ankara, Turkey.

5891 | Nitric Oxide and Signal Loss in the “ROP Rat” Retina. Tari L. Favazza1, DeWalt2, N. Zhang1, R.M. Hansen1, A.B. Fulton1, W.D. Eldred1, J.D. Akula2.

1Ophthalmology, Children’s Hospital Boston, Boston, MA; 2Biological Science, Boston University, Boston, MA; 3Ophthalmology, Harvard Medical School, Boston, MA.

5892 | The Retina and Refractive Outcome in the Rat Model of ROP. Tao N. Zhang1, T.L. Favazza1, A. Bagilieri1, A.B. Fulton1, R.M. Hansen1, P.M. Juvone1, J.D. Akula2.

1Ophthalmology, Children’s Hospital Boston, Boston, MA; 2Ophthalmology, Harvard Medical School, Boston, MA; 3Ophthalmology and Pharmacology, Emory University School of Medicine, Atlanta, GA.

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. Hiroaki Kamo1,2, M. Mandai1, A. Suga1, J. Kiryu1, M. Takahashi1.

1Laboratory for Retinal Regeneration, RIKEN Ctr for Devlptmt Biology, Kobe, Japan; 2Ophthalmology, Kawasaki medical school, Okayama, Japan.


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. Sadikov1, N. Askensy2, 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; 3Department of Pediatric Ophthalmology, Schneider Children’s Medical Center of Israel, Petch Tikva, Israel.


1University of Southern CA Doheny Eye Institute, Los Angeles, CA.


1University of Wisconsin - Madison, Madison, WI; 2Cook Biotech, West Lafayette, IN; 3University of Louisville, Louisville, KY.


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 Construct. Brandon M. Menke1, V.B. Joshi2, A. Wonggrakpanich1, K.R. Anfinsen1, M.R. Sreb1, M.E. Eyeston1, A.K. Salem1, B.A. Tucker1.

1Ophthalmology, 2Pharmacy, University of Iowa, Iowa City, IA.


Ophthalmology, University of California, Los Angeles, JSEI, Los Angeles, CA.
5908 — A587 Engraft Of Hyaluronic Acid-based Hydrogel Loaded Mesenchymal Stem Cell Into The Vitreous Body Of The Ischemic Retina. Su-Ju Oh1, J. Lee2, J. Shin2, C. Yoon2, G. Chae2, M-H. Chun2. 1Department of Anatomy, 2Institute of Hansen’s Disease, 3Coll of Med Catholic Univ of Korea, Seoul, Republic of Korea.

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

5910 — A589 Directing Virus-free Human Induced Pluripotent Stem Cells To Differentiate Into Retinal Cells. Xufeng Zhong1, C. Hampton1, T. Park1, D.M. Gamm1, E. Zambridis2, V. Cantor-Soler1. 1Wilmer Eye Inst, Johns Hopkins Univ Sch, Baltimore, MD; 2Institute for Cell Engineering, Johns Hopkins Univ Sch, Baltimore, MD; 3Stem Cell Research Program at Waisman Center and Ophthalmology and Visual Sciences, University of Wisconsin-Madison, Madison, WI.

5911 — A590 BDNF and DNA Demethylation Increase Expression of Pluripotent and Retinal Neural Genes in ImM10 Müller Glia-Derived Retinal Stem Cells. Deborah C. Otteson1, J. Phillips1, T.D. Petkova1. 1Optometry, University of Houston, Houston, TX; 2University of Wisconsin, Madison, WI.

5912 — A591 Transcriptomic Comparison of RPE Derived From Two Human Embryonic Stem Cell Lines with Human Fetal RPE. Lawrence J. Rizzolo1, G. Gan1, S. Peng1, T.A. Van Zyl1, L.S. Edrissi1, H. An1B, M. Zhong1B, C. Qiu1B, R.A. Adelman1. 1Surgery/Ophthalmology, BCell Biology, University of California-Santa Barbara, Santa Barbara, CA; 2Massachusetts Eye & Ear Infirmary, Boston, Massachusetts, MA.

5913 — A592 Retinal Differentiation Of Human Es Cells Maintained In Chemically Defined, Xeno-free E8 Culture Medium. Kyle Wallace1, A. Gerner1, J. Martin1, Z. Hou1, D.M. Gamm1. 1Waisman Center, University of Wisconsin, Madison, WI; 2Waisman Center, Department of Ophthalmology, Eye Research Institute, 3University of Wisconsin Madison, Madison, WI; 4Morgridge Institute for Research, Madison, WI.

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

5915 — A594 Transfection of IGF-1 and IGFBP-1 in Neuronal Progenitor Cells from Human Persistent Fetal Vascular for Neuroprotection. Jie Ma1, C. Guo1, G. Chen1, D. Cyr1, K. Lashkari1,2. 1Scheepens Eye Research Institute, Boston, MA; 2The Second Xiangya Hospital, Central South University, Changsha, China; 3Massachusetts Eye & Ear Infirmary, Boston, MA.

5916 — A595 Evaluation of Matrigel Degradation by MMP Secretion of hESC-RPE. Kenrick Kuwahara1, D. Zhu1, M. Humayun2, D. Hinton1, A.K. Ahuja. Doheny Eye Institute, Los Angeles, CA.

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

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


5920 — A599 Evaluation of hESC-Derived Retinal Pigment Epithelial Cells Cultured as a Monolayer on Polymer Substrate Transplanted in RCS Rats. Padmaja B. Thomas1, B.B. Thomas2, L. Liu1, Y. Hu1, D. Zhu1, E. Barron1, D.O. Clegg1, D.R. Hinton1, M.S. Humayun1. 1Ophthalmology, 2Doheny Eye Institute-USC, Los Angeles, CA.

5921 — A600 Activated Omental Stromal Cells Protect Against Light-Induced Retinal Injury. Evan B. Price1,2, P. Bu1,2, P. Sethupathi1, E.B. Stabbs, Jr1,2, J.J. Perlman1,2, S. Peng1,2. 1Surgery, 2Research, 3Edward Hines, Jr. VA Hospital, Hines, IL; 4Ophthalmology, 5Microbiology and Immunology, 6Loyola University Medical Center, Maywood, IL.

5922 — A601 Embryonic Stem Cell Derived Retinal Pigment Epithelium Stem Cell Transplant: Survival And Lack Of Tumor Formation In Athymic Nude Rats. Bruno Diniz, Sr1,2, R. Ribeiro1, Y. Hui1, P. Thomas2, B. Thomas2, D. Hinton1, M. Humayun1. 1Doheny Eye Institute, University of Southern California, Los Angeles, CA; 2Ophthalmology, Universidade Federal de São Paulo, São Paulo, Brazil; 3Department of Ophthalmology, Peking University Third Hospital, Beijing, China; 4Keck School of Medicine, Los Angeles, CA.

5923 — A602 Comparison Of Barrier Properties of RPE Derived From Two Human Embryonic Stem Cell Lines to the Properties of Human Fetal RPE. Shaoin Peng1,2, G. Gan1, C. Qiu1, L. Li1, R.A. Adelman1, L.J. Rizzolo1. 1Surgery/ Ophthalmology, 2Cell biology, 3Ophthalmology, 4Yale University, New Haven, CT; 5Ophthalmology, 2nd Hospital of Harbin Medical University, Harbin, China.

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


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

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


9598 — A173 Outcome and Structural Evolution of Mitomycin-Assisted Trabeculectomy in Inflammatory Glaucoma. Friederike Mackensen1, B.C. Dobner1, A.B. Knoll1, A.F. Scheurer1, K. Rohrschneider1. Department of Ophthalmology, Interdisciplinary Uveitis Center, University of Heidelberg, Heidelberg, Germany; Department of Ophthalmology, University of Heidelberg, Heidelberg, Germany.


9601 — A176 Single Digit Intraocular Pressure in Post-Trabeculectomy Patients and Its Effects on Visual Field Progression. Ana C. Toro1, C. Fernandez2, G. Hernandez2. Ophthalmology, University of Puerto Rico, San Juan, PR; Ophthalmology, Hospital Metropolitan, San Juan, PR.

5953 – A178 The Influence Of Sceral Flap Thickness, Shape, Suture Number And Position On Pressure Change And Aqueous Flow Direction In A New Trabeculectomy Model. Amir Samsudin1,2, S. Brocchini3,4, P.T. Khaw1, J. Eames4. 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 Occulusable Angles Despite Patent Iridotomy: How Efficient Is Laser Iridoplasty In These Cases? Vitor G. Prado1, P.A. Moreno2, E.D. Almeida, Jr1, A.S. Sousa1, T.S. Prata2. 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 Narayanawasamy1, S.A. Perera2, C. Ho3, C.K. Leung3, P.T. Chew1. 1Department of Ophthalmology, University School of Medicine, Boston, MA. 2Ophthalmology, University of Hong Kong, Hong Kong, China; 3UCL School of Ophthalmology and Visual Sciences, University College London, London, UK.

5957 – A182 Excimer Laser trabeculoplasty (ELT) combined with Phacoemulsification and Lens Implantation: 5 Year Post-OP Observations. Ulrich F. Giers1, L. Kleineberg2, R.P. Stodmeister2, M.S. Berlin1, L.E. Pillmnan1. 1Detmold Eye Clinic, Detmold, Germany; 2Ophthalmology, University Hospital Carl Gustav Carus, Rodalben, Germany.


5959 – A184 Primary and Repeat Selective Laser Trabeculoplasty in Pseudophakic Eyes: 2 year follow-up. Tamara L. Berezi1, A.S. Khouri1, B.A. Maltzman1, K. Shah1, R.D. Fechtner1. 1Ophthalmology, UMDNJ-New Jersey Medical School, Newark, NJ; 2Drexel University, Philadelphia, PA.

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

5961 – A186 The Effectiveness of Selective Laser Trabeculoplasty on Eyes of Different Corneal Thicknesses. Joseph A. Donnelly1, E. Migliano1, L.F. Jindra1. 1Albert Einstein College of Medicine, Bronx, NY; 2Floral Park Ophthalmology, Floral Park, NY; 3Ophthalmology, Columbia University, Floral Park, NY. *CR

5962 – A187 Transscleral Micropulse Diode Laser Cyclophotocoagulation as Effective Adjunctive Treatment prior to Glaucoma Surgery. Maria Cecilia D. Aquino1, A. Tan1, S. Lood1, P.T. Chew2. 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. Mamma Shah, B. Eliaissi-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, III1, T.A. Shachy2, A. Porta3, F. Ferentini4, M.A. Latina4. 1Ophthalmology, Massachusetts Eye and Ear Infirmary, Reading, MA; 2Ophthalmology, MEEI / HMS, Reading, MA; 3Ophthalmology, Eye Unit, Ospedale “C. Cantu”, Abbiategrasso, Italy; 4Reading Health Center, Reading, MA. *CR

5967 – A192 Subsequent Slt Can Be Effective After Initially Less Responsive Slt: 4 Year Follow-up. Albert S. Khouri1, T.L. Berezi1, B. Maltzman2, K. Shah1, R.D. Fechtner2. 1Ophthalmology, UMDNJ, New Jersey Medical School, Newark, NJ; 2Ophthalmology, Hadassah University Hospital Ein Kerem, Jerusalem, Israel; 3Ophthalmology, New Jersey Medical School, Newark, NJ; 4Drexel University, Philadelphia, PA.


5969 – A194 Baseline Intraocular Pressure Strongly Predicts Response to Selective Laser Trabeculoplasty for Open Angle Glaucoma. J D. Nussdorf, A C. Janot, D W. Hanson, P J. DeMarco. 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 Bowler1, H. Saedon1, R. Thomas2, W. Chan3. 1Ophthalmology, Princess Royal University Hospital, Orpington, United Kingdom; 2Ophthalmology, University Hospitals Coventry Warwickshire & Warwick Medical School, Coventry, United Kingdom; 3Ophthalmology, Croydon University Hospital, Croydon, United Kingdom; 4Ophthalmology, Great Ormond Street Hospital, London, United Kingdom.

5971 – A196 Repeat SLT In Comprehensive Ophthalmology Practices. Jeffrey D. Henderen1, E.S. Sung1, A. Johnston2, S.K. Luminais3,4, R. Sherry1, J.P. Gaughan1. 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. Barretto1, L. Trancoso1, M. Cot2, L. Biteli1, T. S Prata2. 1Glaucoma, Hospital Medicina dos Olhos, Sao Paulo, Brazil; 2Glaucoma, Complexo Hospital Padre Bento, Sao Paulo, Brazil.

5973 – A198 Efficacy of Transscleral Diode Laser Cyclophotocoagulation on Neovascular Glaucoma: Vein Occlusion versus Proliferative Diabetic Retinopathy. Neha Sangad1, A. Anhalt1, T.D. Patriankos2,3. 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. Fossarello. Eye Clinic, University of Cagliari, Cagliari, Italy.


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


5981 — A206  Scanning Electron Microscopy Findings In Rabbit Eyes Undergoing Ultrasonic Cyclocoagulation. Florent Apie1,2, A. Béglé1, T. Charrel1,2, C. Lafon1,2, J-Y. Chapelon1,2, P. Denis1,2, F. Romano.1 Grenoble University Hospital, Grenoble, France; *Inserm U1032, Lyon, France; 2EyeTechCare, 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. Shieh1, O.S. Faridi1, C.K. Gupta1, M.S. Juzych1, M.E. Citron1, M.J. Siegel1, L.I. Siegel1. 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; 5Glaucome Center of Michigan, Southfield, MI.

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

523 Corneal Endothelium

Moderator: Ula V Jarkunas


5987 — D808  Genetic screen of African-Americans with Fuchs endothelial corneal dystrophy. Natalie A. Afshari1, M.A. Minear2, J. McLaren1A, K. Kittleson1A, S. Patel1A. 1Department of Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 2Anterior Segment/ Ophthalmic Pathology, Med, Willowbrook, IL.

5988 — D809  Successful Culture Of Human Corneal Endothelial Cells Isolated From Patients With Fuchs Endothelial Corneal Dystrophy. Marie-Claude Perron1, K. Zanizol2, C. Bostan1, O. Rochette Drouin1, A. Deschambeauté1, I. Brunette2, S. Proulx2. 1Maisonneuve-Rosemont Hospital Research Center, Montreal, QC, Canada; 2Centre LOEX de l’Université Laval, Génie tissulaire et régénération; Centre de recherche FRSQ du CHA universitaire de Québec and Département of ophthalmology and ORL, Laval University, Quebec, QC, Canada; 3Department 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. Hamra, U. Jarkunas. Ophthalmology, Massachusetts Eye and Ear Infrmary, Boston, MA.


5992 — D813  Reconstruction of a Corneal Endothelium Using Cells From Patients With Fuchs Endothelial Corneal Dystrophy. Stephanie Proulx1, M. Haydar1, B. Goyer1, O. Roy1, S. Laprise1, O. Rochette Drouin1, I. Brunette2. Centre LOEX de l’Université Laval, Génie tissulaire et régénération; Centre de recherche FRSQ du CHA universitaire de Québec et Département d’ophthalmologie, Université Laval, Québec, QC, Canada; 2Département d’ophthalmologie, Université de Montréal and Centre de Recherche de l’Hôpital Maisonneuve-Rosemont, Montréal, QC, Canada.

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

5994 — D815  Fabricating Bioengineered Corneal Endothelial Cell Sheet Through Chitosan-polycaprolactone-blended Membranes. Tsung-Jen Wang1,2, I-J. Wang3,4, T-H. Young2. 1Department of Ophthalmology, Taipei Medical University Hospital, Taiwan; 2Department of Ophthalmology, Jules Stein Eye Institute, Massachusetts Eye and Ear Infirmary, Boston, MA.

5996 — D817  Kinetics of Intracellular Pro-apoptotic Bax Protein Inducing Cell Death in Corneal Endothelial Cells. Marko Pastak1, B.B. Singer2, A. Kovtun3, M. Czugała4, B. Seitz5, M. Epple6, K-P. Steuhl7, S. Ergin8, T.A. Fuchsburger9, 1Institute of Anatomy, 2Department of Ophthalmology, ‘Essen University Hospital, Essen, Germany; 3Institute of Inorganic Chemistry, University of Duisburg Essen, Essen, Germany; 4Department of Ophthalmology, Saarland University Hospital, Homburg/Saar, Germany; 5Department of Ophthalmology, Düsseldorf University Hospital, Düsseldorf, Germany.


5999 — D820  Rock Inhibitor Eye Drops Accelerate Corneal Endothelium Wound Healing In A Primate Model. Naoki Okumura1, N. Koizumi2, M. Ueno3, Y. Sakamoto3, Y. Takahashi4, K. Yamasaki5, R. Torii5, J. Hamuro6, S. Kinoshita6, 1Biomedical Engineering, Doshisha University, Kyotanabe, Japan; 2Ophthalmology, Kyoto Prefectural Univ of Med, Kyoto, Japan; 3Research Center for Animal Life Science, Shiga University, Shiga, Japan.

6000 — D821  Culture of Human Corneal Endothelial Cells (HCECs) for therapeutic purposes. Jessitha Navaratnam1, J.K. Slettedal2, E. Guliksen3, S. Boye1, M.C. Moe1, L. Drosbum1, B. Nicolaissen4, A. Shahdadfar1. 1Center for Eye Research, 2Oslo University Hospital, Oslo, Norway.

6001 — D822  Increased Proliferation and Replicative Lifespan of Isolated Human Corneal Endothelial Cells with L-Ascorbic acid 2-phosphate. Satoru Yamagami1,2, N. Shima1, M. Kimoto1, M. Yamazaki1, 1Department of Ophthalmology, University of Tokyo Graduate School of Medicine, Bunkyo-ku, Japan; 2Foundation for Biomedical Research and Innovation, Kobe, Japan.

0640 — D861 Reduced Hem-And Lymphangiogenesis Into A Fishscale-derived Collagen Scaffold Used As Biological Artificial Cornea (BioCornea). Deniz Hoc1, F. Bock2, B. Regenfuss3, J. Onderka4, C.C. Liu5, H.J. Lat6, C. Cursiefen7. 1Department of Ophthalmology, University of Cologne, Cologne, Germany; 2Department of Ophthalmology, University of Erlangen-Nuremberg, Erlangen, Germany; 3Aeon Astron Corp., Taipei, Taiwan; 4Aeon Astron Europe Erlangen-Nuremberg, Erlangen, Germany; 5Aeon Astron Ottawa Eye Institute, Ottawa, ON, Canada; 6GMP Laboratories, University of Pittsburgh School of Medicine, Pittsburgh, PA.*CR


0642 — D863 The Fate Of Collagen-based Hydrogels As Corneal Substitutes In “High Risk” Graft Recipients. Lucia Kuffova1, R. Fordyce2, M. Robertson1, M. Griffith2, J-J. 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 Erlangen-Nuremberg, Erlangen, Germany; 6Aeon Astron Corp., Taipei, Taiwan; 7Aeon Astron Europe Erlangen-Nuremberg, Erlangen, Germany; 8Aeon Astron Ottawa Eye Institute, Ottawa, ON, Canada; 9GMP Laboratories, University of Pittsburgh School of Medicine, Pittsburgh, PA.*CR

0643 — 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.


0645 — D866 Cosmetic And Refractive Results Of Lamellar Grafts In Corneal Dermoids. Fasika A. Woreta, A. Vedula, D. Goldman, R. Forster. Ophthalmology, Bascom Palmer Eye Institute, Miami, FL.


0649 — D870 Graft Failure And Intraocular Pressure Control After Keratoplasty In Iridocorneal Endothelial Syndrome. Desmond T. Quek1, S. Han2, T. Wong3, D. Tan4, J. Mehta5. 1Singapore National Eye Center, Singapore, Singapore; 2Singapore Eye Research Institute, Singapore, Singapore; 3Ophthalmology, Samsung Medical Centre, Sungkyunkwan University, Korea, Republic of Korea.


0653 — 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.

0654 — 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. Botze, P-J. Bertaux. Ophthalmology, Regional Hospital Center of Metz Bon-Secours, Metz, France.


0658 — D879 Femtosecond Laser-Assisted Mushroom Configuration Penetrating Keratoplasty And Deep Anterior Lamellar Keratoplasty In Advanced Keratoconus. Simon S. Fung1, F. Aiello2, A. Iovino1, C. Nicola1, V. Maurino1. 1Cornea and External Disease Service, Moorfields Eye Hospital, London, United Kingdom; 2Department of Biopathology, Ophthalmology Unit, University of Rome Tor Vergata, Rome, Italy.


0660 — D881 Optical Functional Properties Of The Osteo-odontokeratoprosthesis (ookp). Richard M. Lee1, G. Ong2, J. White1, F. Lam1, C.S. Liu1, C.C. Hall1. *Ophthalmology, Susse Eye Hospital, Sussex Eye Hospital, United Kingdom; 2Optometry & Visual Science, City University, London, United Kingdom.


0662 — D883 Field of View of Modified Osteo-Odontokeratoprosthesis. Victor M. Hernandez1, C. de Freitas1, G.C. Falcinelli1, Y. Sawatari2, V. Perez3, D. Sarthia1, F. Mann1, E.C. Alfonso4, J-M.A. Parel1, J-M.A. Parel2. 1Ophthalmology, 2Optical Biophysics Center, 3Department of Ophthalmology, 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.

0663 — D884 Poly(ethylene glycol diacrylate) - Poly(2-hydroxyethyl methacrylate) (PEGDA-PHEMA) Based Keratoprosthesis. Amelia L. Zellander1, M. Makhous1, M. Cho1. 1Bioengineering, University of Illinois at Chicago, Chicago, IL; 2Physical Therapy and Human Movement Sciences, Orthopaedic Surgery and Physical Medicine, Northwestern University, Chicago, IL.*CR

0664 — D885 Boston Type I Keratoprosthesis: Microbial Colonization and Antibacterial Resistance. Elie P. Eid1, M-C. Robert1, P. Saint-Antoine2, M. Harissi-Dagher3. 1Ophthalmology, 2Microbiology, 3Centre Hospitalier de l’Université de Montréal (CHUM), Hôpital Notre-Dame, Montréal, QC, Canada.

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Keratoprosthesis Type I Implantation in Aniridia

X. Qian1A, S. Hassanaly1B, M. Harissi-Dagher1B.

York, NY.
Ophthalmology, Weill Cornell Medical College, New York, NY.

Implanted Boston Type I Keratoprosthesis


Michael A. Klufas, K.K. Yin, N.M. Radcliffe, R.V.

Oftalmica de Medellin, Medellin, Colombia.

Obstruction in Boston Keratoprosthesis.

J. Kang, A.A. Aref, N. Allemann, M.S. Cortina, J.
de la Cruz.

New South Wales, Sydney, Australia.


Faculty of Life Sciences, #Eurosol Research, Faculty of Life Sciences, 1University of Manchester, Manchester, United Kingdom. *CR

Effects Of Multi-purpose Solutions On The Viability And Encystment Of Clinical Isolates Of Acanthamoeba Determined By Flow Cytometry. Masaki Imayasu4, K.T. Tchedrev5, H.D. Cavanagh. 5R&D Center, Menicon Co Ltd, Kasugai, Japan; 4Ophthalmology, Univ Texas Southwestern Med Ctr, Dallas, TX. *CR

Evaluation Of Commercially Available Novel Multi-purpose Contact Lens Care Solutions Effect On Membrane-associated Mucin Expression In The Rat Cornea. Kissou T. Tchedrev6, M. Imayasu4, Y. Horii, H.D. Cavanagh. 6R&D and Innovation Center, Menicon LTD, Kasugai, Japan; 4Ophthalmology, Toho University Sakura Medical Center, Sakura, Japan; 5Ophthalmology, Univ Texas Southwestern Med Ctr, Dallas, TX. *CR

Comparison Of Disinfection Efficacies Of Four Contact Lens Care Regimens Against Pseudomonas aeruginosa on Orthokeratology Lenses. Yoshie Ito4, N. Miyata6, T. Kawagoe, M. Nobuhisa6, E. Okada. 2Okada Eye Clinic, (Okada Eye Clinic, Yokohama, Japan; 3Department of Ophthalmology and Visual Science, Yokohama City University, Yokohama, Japan.


#Optical & Visual Science, #Microbiology, #Texas Tech University Health Sciences Center, Lubbock, TX; #Selenium Ltd., Lubbock, TX; #Selenium Ltd., Austin, TX. *CR


Antimicrobial Efficacy Of Melamine Covalently Bound To Contact Lenses. Debarun Dutta4, N. Cole4, M. Willcox5. Brien Holden Vision Institute, Sydney, Australia; School of Optometry and Vision Science, University of New South Wales, Sydney, Australia.

Organo-Selenium Coated Contact Lenses: Effect Upon Bacterial Biofilm Attachment. Phai Tran1A, A. Hamood8, C. Jarvis4, J. Thomas7, B. Lackey2, T. Mosley2, T. Reid6. 4Optical and Visual Sciences, #Microbiology, 5Ophthalmology, Texas Tech University Health Sciences Center, Lubbock, TX; #Selenium Ltd., Lubbock, TX. *CR

Non-Cultivable Bacterial Biofilm Communities In Used Contact Lens Cases. Judith L. Flanagan1, M. Allgeier1. M.D. Willcox3, P. Hugenholz1. Brien Holden Vision Institute, Sydney, Australia; #Joint Genome Institute, Walnut Creek, CA; #Brien Holden Vision Institute, Univ of New South Wales, Sydney, Australia; *Australian Centre for Ecogenomics, School of Chemistry and Molecular Biosciences & Institute for Mol, University of Queensland, Queensland, Australia.


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.

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Thursday Posters
8:30 am – 10:15 am

Thursday – Posters – 6065 – 6089

Thursday – Posters – 6065 – 6089

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Thursday – Posters – 6065 – 6089
**Thursday Posters**

**8:30 am – 10:15 am**

**6091 — D912** Cytotoxic Potential Assessment Of Contact Lens Care Solutions And Evidence For A Useful Rinse Step With Unpreserved Solution. Melody Dutot, J. Vincent, I. Fabre, C. Grasmick, R. Fagon, P. Rat.

**6092 — D913** Morning Cleaning or Replacement of Lenses Reduces Complications with Extended Wear of Contact Lenses. Jerome Ozkan, M.D. Willcox, P. Lazon De La Jara, F.M. Rathl, B.A. Holden.


**6094 — D915** Effect of Soft Contact Lens Storage Solutions on Lens Wettability In-Vitro. Rajed Fagehi, A. Tomlinson, Y. Manahilos: Vision Sciences, Glasgow Caledonian University, Glasgow, United Kingdom.


**6097 — D918** Protoglycan 4 (lubricin) Enhances the Wettability Of Model Conventional And Silicone Hydrogel Contact Lenses. Lakshman N. Subbaraman, T.A. Schmidt, H. Sheardown.


**6101 — D922** Ocular Delivery Of Ketotifen Fumarate By Silicone Hydrogel And Conventional Hydrogel Contact Lens Materials. Anthony Sohuri, A. Hui, L. Jones.


**6103 — D924** Surface versus Bulk Absorption of a Diblock Copolymer on in Silicone Hydrogels. Yuchen Huo, S.S. Perry, H.A. Ketelson.

**6104 — D925** Understanding Lens Shape Dynamics During Off-Eye Dehydration of Contact Lens Materials with Varying Water Content. Ian G. Cox, R.H. Lee.


**6108 — D929** Corneal Nerve Morphology In Soft And Orthokeratology Contact Lens Wear. Edward Lum, B. Golebiowski, H.A. Swarbrick.

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


**6111 — D932** Interfacial Interactions Of Cationic And Anionic Artificial Tears With Ionic Hydrogel Contact Lens Surface. Muhammad Abdulaziz, S. Benita.


**6115 — D936** Surface Segregation of Chemical Moieties in Silicone Hydrogels. Scott S. Perry, C. Argenbright, Y. Hoo, H.A. Ketelson.

Thursday – Posters – 6117 – 6140

6117 — D938 Evaluation of In Vitro Cytotoxicity Assays for Contact Lens Multipurpose Solutions. Mercedes Salvador-Silva1,4, L.C. Huang4, C.H. Powell5,6, L. Hoong4, R.M. Yetemeni3,1. 4R&D - Biological Sciences, 5Conceal R&D, 6Abbott Medical Optics (AMO), Santa Ana, CA. *CR

6118 — D939 Cytotoxic and Inflammatory Effects of Contact Lens Multipurpose Solutions on Human Corneal Epithelial Cells. Nir Erdinstit1, Y. Grossman1, R. Harari1, H. Ovadiah6, A. Solomon9. 6Ophthalmology, 9Neurology, 1Hadassah 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


6124 — D945 Study Of Novel Chitosan-coated Contact Lens As An Equivalent Substrate For The Therapeutic Delivery Of Rabbit Limbal Epithelium. Xiao-Wei Tan, D. Tan, R.W. Beuerman, 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 Hall1,4, L. Jones1, J.A. Forrest3,8. 1School of Optometry, 2Department of Physics & Astronomy, University of Waterloo, Waterloo, ON, Canada.

6126 — D947 Regenerated Cellulose Hydrogels with High Optical Transparency and Mechanical Strength for Corneal Applications. Marcia W. Patchan2, J. Graham3,2, Z. Xia2, J. Maranchi1, J. Elissieff1, O.D. Schein1, M. Trexler2. 1Milton Eisenhower Research Center, Johns Hopkins University Applied Physics Lab, Laurel, MD; 2Biomedical Engineering, Johns Hopkins University, Baltimore, MD; 3Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD. *CR

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

526 Cornea/Anterior Segment Infection and Inflammation I

Moderator: Ashok Kumar


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

6129 — D989 Cxcl Contributions To Host Resistance Following Pseudomonas Aeruginosa Corneal Infection But Not To Herpes Simplex Virus Type 1. Katie M. Hudson4, D.J. Carr5,6,7. 5Ophthalmology, 6Microbiology and Immunology, 7University of Oklahoma Health Sciences Center, Oklahoma City, OK.

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.


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, R. Sivaganesa Karthikeyan1, N. Venkatesh Prajna1, E. Pearlman1, A. Rietsch2, P. Lalitha3. 1Microbiology, Aravind Medical Research Foundation, Madurai, India; 2Ophthalmology and Visual Sciences, Case Western Reserve University, Cleveland, OH; 3Dept. of Molecular Biology and Microbiology, Case western Reserve University, Cleveland, OH.

6136 — D996 Interactions of Pseudomonas aeruginosa with human corneal fibroblasts in vitro. Ahmad Elsahn1,2, C. Heath1, M. Christoudoulides1, P. Hossaint2,3. Infection, Inflammation & Immunity, University of Southampton, Southampton, United Kingdom; 2Eye Unit, University Hospital Southampton NHS Foundation Trust, Southampton, United Kingdom.


6139 — D999 Genotypic Characterization of Staphylococcus aureus isolates from Eyes with Keratitis. Takashi Sузuki, 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. Diaz4, E. Alfonso5, D. Miller6. 1Ophthalmology, 2Bascom Palmer Eye Institute, 3University of Miami, Miami, FL.

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**Thursday Posters**

8:30 am – 10:15 am

**6141 — D1001** Involvement of Corneal Epithelial Cells in the TLR7 Response in an *In Vitro* Bacterial Inflammation Model. Isabel Arranz-Valsaíro1, U. Schulte1, L. Contreras-Ruiz1, L. García-Posadas1, A. Lopez-García1, F. Pauleen2, Y. Diebold3. 

1Ocular Surface Group, IOBA-University of Valladolid, Valladolid, Spain; 
2Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Valladolid, Spain; 
3Department of Anatomy and Cell Biology, Martin Luther University Halle/Wittenberg, Halle/Saale, Germany; 
4Department of Anatomy II, Friedrich Alexander University Erlangen/Nuremberg, Erlangen, Germany.

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

**6143 — D1003** Reprogramming Induced by TLR2/4 Agonists Regulates Corneal Immune Responses to Fungal Infection. Xinyi Wu1, J. Wang1, L. Wang1, Y. Li1. Ophthai QiLu Hosp/Ophthal, Shandong University, Jinan, Shandong, China.

**6144 — D1004** Analysis of Acanthamoeba cysts isolated from contact lenses with the Raman spectroscopy microscope. Pablo L. Goldschmidt1,2, D. Di Cave1, S. Degorge1,2, D. Benalaoua1, E. Borsali1,4, A. Le Bouter1,4, B. Larré1,4, V. Borderie1,4, L. Laroche1,4, C. Chaumeil1,4. Laboratoire, Service 5, Quinze Vints N°1 Ophthalmologic Ctr, Paris, France; 5Dep. of Public Health and Cell Biology, University of Rome Tor Vergata, Rome, Italy.

**6145 — D1005** Acanthamoeba Associated Microbial Communities. Darlene Miller1, J. Maestre-Mesa1, M. Diaz1, E. Perez1, V. Shastopadov1, R. Van Gelder2, E.C. Alfonso1. 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. Ledbetter4,5, E.C. da Silva1, L. Dong2, S.P. McDonough5. 4Clinical Sciences, 5Biomedical Sciences, Cornell University, Ithaca, NY.

**6147 — D1007** The Herpes Simplex Virus Type 1 Latency Associated Transcript Inhibits Phenotypic and Functional Maturation of Dendritic Cells. Lbachir BenMohamed1, A.A. Chentoufi1, D. Dervillez1, A.A. Chentoufi1, G. Dassypota1, K.W. Kabbara1, M.C. Villacres1, C. Nguyen1, S.L. Wechsler1, L. BenMohamed1. 1Gavin Herbert Eye Institute, University of California, Irvine, Irvine, CA; 2University of Southern California, Los Angeles, CA.

**6148 — D1008** Gene Transfer Of Hsv1-specific Megasquence To The Murine Cornea Using Electroporation. Antoine Rousseau1,2, A. Ergani3. 

1E.E. Gabison1, N. Huot2, M. Gailledrat4, C. Desseaux5, B. Chapelle1, J.R. Poy1, M. Labetouille1,2. 
2Ophthalmology, Hospital Bicetre, South Paris University, Le Kremlin Bicetre, France; 
3Laboratoire de Virologie Moléculaire et Structurelle, Centre National de la Recherche Scientifique, Gif-sur-Yvette, France; 
4Laboratoire de Virologie Moléculaire et Structurelle, Centre National de la Recherche Scientifique, Gif-sur-Yvette, France; 
5Institut de la Vision, Paris, France; 6Celllectis Therapeutics, Paris, France; 7OPiA Technologies SAS, Paris, France. 8*CR


1Ophthalmology, UT Houston Health Science Center (UHShC), Houston, TX; 
2Ophthalmology Section/Head and Neck Surgery, UT MD Anderson Cancer Center, Houston, TX. 8*CR

**6150 — D1010** Hsv1-specific Megasquence May Reduce Ocular Infection In A Mouse Model Of Herpes Keratitis. Marc Labetouille1,2, E.E. Gabison1,4, N. Huot1,2, A. Rousseau1, B. Chapelle1, A. Ergani1. 

1Ophthalmology, Hospital Bicetre, South Paris University, Le Kremlin Bicetre, France; 
2Ophthalmology, Therapeutics SAS, Paris, France; 
3Biotech Department of Analysis II, Friedrich Alexander University Erlangen/Nuremberg, Erlangen, Germany.

**6151 — D1011** CD8+ T Cells Inhibit Viral Replication but Become a Source of VEGF Expression During Corneal Herpes Simplex Type I Infection. Christopher D. Conroy1, M. Zheng2, D.U. Stone1, D.J. Carr1. 

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+ Cytotoxic T-Lymphocyte Epitopes Identified from Herpes Simplex Virus Glycoprotein B. Anthony B. Neshburn1, X. Dervillez1,2, A.A. Chentoufi1, G. Dassypota1, C.M. Villacres1, C. Chentoufi1, L. BenMohamed1. 

1Gavin Herbert Eye Institute, University of California, Irvine, Irvine, CA; 2University of Southern California, Los Angeles, CA.

**6153 — D1013** Non-Muscle Myosin IIa Mediates HSV-1 Entry Into the Cells of the Human and Pig Corneas. Thessicar E. Antoine1,2,3, D. Shukla1,2,3. 

1Microbiology and Visual Sciences, 2Laboratory, California Department of Public Health, Richmond, CA; 3Microbiology and Immunology, University of Oklahoma Health Science Center, Oklahoma City, OK.

**6154 — D1014** Corneal Dendritic Cells Suppress Local Corneal Damage and Mediate Systemic Viral Dissemination in Herpes Simplex Keratitis. Kai Hu1, H. Ghiasi1,2, U. Von Andrian1, P. Hamrah1,4. 

1Ophthalmology, St Louis University, St Louis, MO; 
2Institute of Immunology, Univ of Arizona, Tucson, AZ; 3Viral and Rickettsial Disease Section/Head and Neck Surgery, UT MD Anderson Cancer Center, Houston, TX; 
4Immune Disease Institute, Boston, MA; 5Immune Institute Disease Institute, Boston, MA.

**6155 — D1015** Efficacious Clinical Outcome of an Ophthamal Formulaion of Phosphatidylycerine- binding Monoclinal Antibody in a Rabbit Model of Acute HSV-1 Keratitis. Christian Clement1, S.H. Thompson1, P.S. Bhattacharjee1, H.E. McFerrin1, Jr, W.J. Lukiv1, K. Corbin-Liebert1, C.J. Empig1, K. Schlunegger1, J.M. Hill1. 

1Ophthalmology, 1School of Public Health, 1LSUHSC, New Orleans, LA; 2Biologie, Xavier University of Louisiana, New Orleans, LA; 3Neuroscience & Ophthalmology, Louisiana State Univ Hlth Sci Ctr, New Orleans, LA; 4Ophthalmology, Peregrine Pharmaceuticals, Inc., Tustin, CA; 5Peregrine Pharmaceuticals Inc., Tustin, CA. 8*CR


**6157 — D1017** Mistying of Human Adenovirus Type 19 Associated with Epidemic Keratoconjunctivitis. Xiaohong Zhou1, C.M. Robinson1, J. Rajata1, D. Seto1, M.S. Jones1, D.W. Dyer1, J. Chodosh1. 

1Ophthalmology, Mass Eye and Ear - Harvard Medical School, Boston, MA; 2School of Systems Biology, George Mason University, Manassas, VA; 3Viral and Rickettsial Disease Laboratory, California Department of Public Health, Richmond, CA; 4Microbiology and Immunology, University of Oklahoma Health Science Center, Oklahoma City, OK.

**6158 — D1018** Apoptosis and Expression of Antiviral Response Genes during Ocular HSV-1 Infection in TNFR1 or TNFR2 Knockout Mice. Wen Chen1, M. Zhang1, J. Covar1, N. Zhang1, S.S. Atherton. Cellular Biology and Anatomy, GHSU, Augusta, GA.


1Ophthalmology, 1University of California, Los Angeles, CA; 2University of Southern California, Los Angeles, CA.

**6160 — D1020** Neutralizing Kc (cex1L) Ameliorates Recurrent Hsk. Patrick M. Stuart1, D. West. Ophthalmology, St Louis University, St Louis, MO.

527 Cornerea/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. Barkar1, V. Tham2, A. Vinoya3, E. Esterberg1, N. Acharya4. 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. Misericordia1, I. Bianchi2, 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. Ali1, D. Liang2, 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 Cedillo Sarabia, Sr1, R. Velasco Ramos, II1, S. Perez Tapia, III1, A. Babayan Sosa, IV1, O. Baca Lozada, V1, O. Fernandez Vacaya, VI1, R. Suarez, Velasco, V1, G. Cortes Sanchez, V1, M. Navarro Pena, V1. 1Cornea, Fundacion Hospital de Nuestra Senora de la Luz, MEXICO DF, Mexico; 2Department of Immunology, National School of Biological Sciences ENCB-IPN, MEXICO DF, Mexico.

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 Fundacion Banco de Ojos “Fernando Oca del Valle” in Paraguay. Martin M. Montwich1, M. Bordan1, D. Sanchez Di Martino1, A. Ruiz Campuzano1, W. Martinez Torres1, S. Lichi1, M. Samudio2, N. Fariha2, F. Laspina1, H. Mino de Kaspar1. 1Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; 2Fundacion Banco de Ojos “Fernando Oca del Valle”. Instituto de Investigaciones en Ciencias de la Salud, Asuncion, Paraguay.

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


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

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


6175 — D1035 Rapid Identification of Microorganisms Using the Two-Photon Ophthalmoscope. YinHong Qu1,2, K.E. Thomas2, T. Reinhard3, Y.Y. Wu1, T.J. Parcell2, J.F. Bille1, D.J. Shachar1. 1Medical Physics, Heidelberg University, Heidelberg, Germany; 2Shiley Eye Center, UCSD, La Jolla, CA.

6176 — D1036 Reduced Corneal Inflammation By Birch Leave Extract In Combination With Sub-therapeutic Cyclosporin A. Katrin Wacker1, C. Gröndemöller1, R. Huber2, T. Reinhard3, J. Schwartzkopff1. 1University Eye Hospital, Freiburg, Germany; 2Department of Environmental Health Sciences, University Medical Center, Freiburg, Germany. CR

6177 — D1037 Topical sCD83 Induces Graft Tolerance In High-risk Corneal Transplantation. Felix Bock1, A. Steinkasserer2, C. Cursiefen1, E. Zinner1. 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. Oihua 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 Similarities among Meibomitis-Related Keratoconjunctivitis, Phlyctenular Keratitis and Ocular Rosacea in Childhood. Tomo Suzuki1,2, Y. Sano1, N. Yokoi1, S. Kinoshita1. 1Department of Ophthalmology, Kyoto Prefectural University of Medicine, Kyoto, Japan; 2Kyoto City Hospital, Kyoto, Japan.

6180 — D1040 I-CAM-1 is Necessary for Efficient Accumulation of CD11c+ Cells in Healing Corneal Epithelium. Yuan Gao1,2, Z. Li4, C.W. Smith4, A. Luedey Biology, 3Ped-Chidren’s Nutrition Rsrch Ctr, 4Baylor College of Medicine, Houston, TX.

6181 — D1041 Expression Of Adhesion Molecules During Development Of Conjunctiva-Associated Lymphoid Tissue. Uta Gehlsen1, S. Siebeltmann1, M.E. Sterri1, J.Y. Niederkorn1, P. Stever1. 1Ophthalmology, University Hospital of Cologne, Cologne, Germany; 2Biological Sciences, Allergan, Inc, Irvine, CA; 3Department of Ophthalmology, UT Southwestern Medical Center, Dallas, TX.


6183 — D1043 Peripheral Antigen Presenting Cells Are Differentially Distributed in Normal and Inflamed Murine Corneae. Albert H. Altamer1, U.H. von Andrian1, P. Hamrah1. 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.


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.


6197 — D1057 Heterogeneous Vancomycin-Intermediate Staphylococcal Isolates from Endophthalmitis. Paulo J. Bispo!, D. Miller?. Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; !Universidade Federal de São Paulo, São Paulo, Brazil.


6199 — D1059 Moxifloxacin Superior To Cefuroxime In Reducing Early-phase Adherence Of Staphylococcus Epidermidis To Hydrophobic Intracorneal Lenses. Fahdalah Benbouzid!, S.A. Bajil!, F. Renaud!, D. Hartmann!, P. Denis!, L. Kodjikian!. Ophthalmology, Lyon Croix-Rousse Hospital, Lyon, France; ?Ophthalmology, Saint Roch Hospital, Nice, France; !Microbiology laboratory, 0Department of biomatериалs and biological interactions, "Claude Bernard University, Lyon I, Lyon, France.


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

6205 — D1065 Treatment of Numular Keratitis with Intracorneal Ganciclovir. Eduardo Arenas!, A. Mielth!. *ophthalmology, Santa Fe Foundation, BOGOTA, Colombia; !Asocornea, Bogota, Colombia.

6206 — D1066 In Vitro Effectiveness Of Photodynamic Therapy Against Multi-resistant Pathogens. Katrin Winkler!, M. Finke!, J. Wang!, N. Szentmáry!, T. Eppig!, J-H. Foth!, D. Hüttenberger!, A. Langenburcher!, B. Seitz!, M. Bischof!. *Department of Microbiology, !Department of Ophthalmology, ?Experimental Ophthalmology, °Saarland University, Homburg, Germany; ºPhysics Department, University of Kaiserslautern, Kaiserslautern, Germany; "Apose Pharma GmbH, Bielefeld, Germany; *Experimental Ophthalmology, !Department of Ophthalmology, °Saarland University, Homburg/Saar, Germany. *CR


Hall B/C D1052-D1077

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

Immunology & Microbiology / Cornea / Retina / Retinal Cell Biology / Biochemistry & Molecular Biology

528 Anti-Infectives and Ocular Disease

Moderator: Ellen J Lee
Hall B/C  D1078-81087

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


6214 — D1074 The Effect of Low Concentrations of Benzonil Chloride on Acanthamoeba survival. Elmer Y. Tu, M.E. Shoff, C.E. Joslin. 1Ophthalmology, University of Illinois at Chicago, Glenview, IL; 3CDRH/OSEL/DB, FDA, Silver Spring, MD; 3Ophthalmology/Vision Sciences, University Illinois at Chicago, Chicago, IL.


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

6217 — D1077 Organo-selenium Coatings Inhibit Multiple Species Of Biofilm Formation On Different Types Of Ophthamlic Device Material. Kelly T. Mitchell, P. Tran, A. Arnett, T. Mosley, R. Hanes, C. Jarvis, A. Hamood, L. Dominguez, R. Reid. 2Ophthalmology, 3Microbiology and Immunology, Texas Tech University HSC, Lubbock, TX; 3Selenium Ltd., Austin, TX.

6218 — D1078 Risk Of Cataract In Persons With Acquired Immune Deficiency Syndrome And Cytomegalovirus Retinitis. Elizabeth A. Sugar, A.T. Lyon, R.A. Lewis, A.A. Jacobs, M.H. Heinemann, J.P. Dunn, J.H. Kemper. Studies of Ocular Complications of AIDS Research Group. 1Biostatistics, Epidemiology, Bloomberg School of Public Health, The Johns Hopkins University, Baltimore, MD; 1The Sidney Kimmel Comprehensive Cancer Center, 2Ophthalmology, 3The Johns Hopkins University School of Medicine, Baltimore, MD; 3Ophthalmology, Northwestern University, Chicago, IL; 3Ophthalmology, Medicine, Pediatrics, Molecular and Human Genetics, Baylor College of Medicine, Houston, TX; 3Ophthalmology, Internal Medicine, Mount Sinai School of Medicine, New York, NY; 3Ophthalmology, Weill Cornell Medical College, New York, NY; 3Ophthalmic Oncology Service, Department of Surgery, Memorial Sloan Kettering Cancer Center, New York, NY; 3Ophthalmology, Epidemiology, Center for Clinical Epidemiology and Biostatistics, The University of Pennsylvania School of Medicine, Philadelphia, PA. CR

6219 — D1079 The Best Functional Predictor of HIV Status in Relation to the Retinal Damage. Afsana Karim, I. Koszak, D-U.G. Bartschi, H. Lemos, L. Dustin, J. Chhablani, G. Barteselli, H. Wang, S.P. Azen, W.R. Freeman. 1UCSD Jacobs Retina Center, 2Ophthalmology, University of California San Diego, La Jolla, CA; 2Ophthalmology-Shiley Eye Ctr, Univ of California-San Diego, La Jolla, CA; 3Graduate School of Public Health, San Diego State University, san diego, CA; 2Biostatistics, University of Southern California, Los Angeles, CA; 3Vitreo-Retina, Shiley Eye Center, UCSD, La Jolla, CA; 3Preventive Medicine, USC Keck School of Medicine, Los Angeles, CA; 3Ophthalmology, UCSD Jacobs Retina Center, La Jolla, CA.


6221 — D1081 Association between HIV Microangiopathy and Systemic Complications in Patients with AIDS. Yuko Iwasaki, N. Yamamoto, T. Kawaguchi, N. Ozaki, M. Mochizuki, K. Murakami. 1Ophthalmology, Tokyo Metropolitan Cancer and Infectious diseases Center Komagome Hospital, Tokyo, Japan; 2Ophthalmology & Visual Science, Tokyo Medical and Dental University, Tokyo, Japan.


6223 — D1083 Ocular Manifestations in HIV/AIDS Patients with Concurrent Cryptococcal Meningitis, Ninni E. Coyne Kombol, O. Nkomazana, S.H. Forster, R.A. Adelman. 1Ophthalmology and Visual Science, Yale University School of Medicine, New Haven, CT; 2University of Botswana School of Medicine, Gaborone, Botswana.


6225 — D1085 The Caspase-1-induced Pyroptotic Cell Death Pathway (Pyroptosis) Is Upregulated During Progression Of Experimental Murine Cytomegalovirus (MCMV) Retinitis in Mice With Retrovirus-induced Immunosuppression (MAIDS). Hsin Chien, E.L. Blalock, L.R. Bushi, C.I. Alston, R.D. Dix. 2Department of Biology, Viral Immunology Center, Georgia State University, Atlanta, GA; 2Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA.

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

Moderator: Dale Gregerson

6228 — D1088 Intraocular Th1/Th17 Cells Coexpressing IL-10: Tregs that Prevent Recurrent EAU? Ulrike Kausmann, M. Diedrichs- Moehringer, G. Wildner. Section of Immunobiology, Ophthalmology, Clinic of the Ludwig-Maximilians-University, Munich, Germany.

6229 — D1089 Cd4+ Foxp3+ Cd25Bright T Regulatory Cells Population In Ocular Sarcoidosis. Alexis Pintel1A, A. Mathian1B,2, M. Miyara2a, C. Chapelon-Abric2, C. Parizot2c, D. Boatin2a, Z. Amoura2a, G. Gorochov2c, P. Lehoang2c, B. Bodaghi2b. 3Ophthalmology, 2Internal medicine, 4Ophthalmology, CHU Pitie-Salpetriere, Paris, France; 5INSERM UMR-S 945, Paris, France; 6U972 INSERM, Paris, France.


6232 — D1092 Clinical Course of Patients with Behçet's Uveoretinitis that Discontinued Infliximab Therapy. Tatsumi Kiwaguchi1, Y. Iwasaki2, 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. Bobut1, M.E. Wikstrom1, M.A. Degli-Esposti1, R.M. Steinman2, J.V. Forrester1. 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. Caspi1, M. Schwartz1. 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 (TGF-B). Paola A. Durand1, Y. Tan1, D. Fatni1, X. Xia1, E. Suarez1, V.L. Perez1, J.L. Vega1. 1Neurology, Herbert Wertheim College of Medicine-Florida International University, Miami, FL; 2Ophthalmology, Bascom Palmer Eye Institute, Miller School of Medicine, Miami, FL.

6236 — D1096 Effect Of P2Y2 Deficiency On Experimental Autoimmune Uveitis Development. Laure E. Caspers1, L.J. Relvas1, R. Desweselaere1, M. Makhoul1, D. Communi2, J-M. Boeynaems2, B. Robaye1, C. Bruny1, E. Willermain1. 1Ophthalmology, Univ of Brussels-St Pierre Hosp, Brussels, Belgium; 2Univ of Brussels-IRIBHM, Brussels, Belgium.


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

6239 — D1099 DAP-12, a Major Immunomodulator, Either Promotes or Suppresses EAU Development. Barbara P Vistica1, V. Montalvo-Reddin1, G. Shi1, L. Nugent1, L. Quigley1, D.W. McVicar1, J. Gery1. 1Lab of Immunology, National Eye Institute, Bethesda, MD; 2Cancer and Immunology Program, NCI-Frederick, Frederick, MD.

6240 — D1100 Inhibition of CdK5 Attenuates Experimental Autoimmune Uveitis. Zili Zhang1, J. Duan1, J.T. Rosenbaum2. 1Ophthalmology, Doheny Eye Institute, Los Angeles, CA; 2Ophthalmology, Austin, TX.

6241 — D1101 Immunological Inhibition of Pigment Epithelium-Derived Factor (PEDF)? Charles E. Thirkill. Ocular Immunology Research Lab 1220 Surgee III, UC Davis, Davis 95616, CA.
Moderators: Regis P Kowalski and Franz H Grus

531 Inflammation and Infection

Hall B/C  D1117-D1152
Thursday, May 10, 2012, 8:30 AM-10:15 AM
Physiology & Pharmacology

D1150 — Posterior Scleritis and Orbital Mass Associated to Positive Antineutrophil Cytoplasmic Autoantibodies Without Systemic Involvement. MaríA de los Angeles Ramos Cadena1, G. Aguilar Montes1, M. Ruiz Cruz1. 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.

D1151 — Uveitis In Patients With Diabetes Mellitus. Martha C. Fuentes, C.G. Sánchez-Balleza, M. Pedrero-Seres. Ocular Inflammation and Immunology, Conval, Mexico, Mexico.

D1152 — Risk Factors Associated with the Relapse of Uveitis in Patients with Juvenile Idiopathic Arthritis. Uyjwala H. Baheit1, A. Radwan2, C. Arcinue1, R. Parikh1, A. Mohamed2, C. Foster1. 1Ophthalmology, Massachusetts Eye Research and Surgery Institution, Cambridge, MA; 2Hyderabad Eye Research Foundation, L V Prasad Eye Institute, Hyderabad, India.

D1153 — Risk Factors for Loss of Visual Acuity among Patients with Uveitis Associated With Juvenile Idiopathic Arthritis: The SITE Study. Jennifer E. Thorne1, A. Gregory2, E. Danie3, C. Foster1, D.A. Jabs4, G.A. Levy-Clarke5, R.B. Nussenblatt6, J.T. Rosenbaum7A, E.B. Suhler7B, K. Hietala1, C. Foster1, J. Dekkers1B, L. de Visser1A, A.K. Eckstein1, E. Gulbins2. 1Department of Ophthalmology, Johns Hopkins University School of Medicine, New York, NY; 2Department of Ophthalmology, St. Louis University School of Medicine, St. Louis, MO; 3Department of Ophthalmology, Toho University Sakura Medical Center, Tokyo, Japan; 4Ophthalmology, Toho University, Tokyo, Japan; 5Department of Ophthalmology, Johns Hopkins University School of Medicine, Baltimore, MD; 6National Eye Inst/NIH, Bethesda, MD; 7Department of Ophthalmology, Johns Hopkins University School of Medicine, Baltimore, MD; 8Ophthalmology, BUveitis Clinic/Portland V AMC, Portland, OR; 9Shiley Eye Institute/UCSD, La Jolla, CA; 10Ophthalmology, Johns Hopkins University School of Medicine, Baltimore, MD; 11U.Medic, Johns Hopkins University School of Medicine, Baltimore, MD; 12Ophthalmology, Johns Hopkins University School of Medicine, Baltimore, MD; 13U. Puerto Rico, San Juan, PR; 14Department of Ophthalmology, UC Irvine School of Medicine, Irvine, CA; 15Ophthalmology, University of Pittsburgh, Pittsburgh, PA.

D1154 — In Search Of Intracellular Biomarkers In Uveitis Associated With Juvenile Idiopathic Arthritis (jia). Viera Kalinina Ayuso1,2, A. Sudano Roccaro1A, V. Papa1B, M. Mazzone1C. 1Ophthalmology, St. Victor Center, CHU Amiens, Picardie University, Amiens, France; 2Ophthalmology, CHU Clermont Ferrand, Clermont Ferrand, France; 3Ophthalmology, CHU Bordeaux, Bordeaux, France; 4Ophthalmology, CHU Strasbourg, Strasbourg, France; 5Ophthalmology/Saint Victor Center, CHU Amiens, University Jules Verne, Amiens, France. *CR, Travel Grant Awardee.
6269 — D1129 Increased Antibiotic Resistance Of Ocular Surface Flora After Repeated Use Of Prophylactic Topical Fluoroquinolone Post-Intravitreal Injection For Neovascular Age-related Macular Degeneration (amd). Vivian T. Yiu1, D. Weisbrod2, E. Mandelcorn3, C. Schwartz2, R. Kohly3, K. Eng3, W-C. Lam1,2, P. Kertes1,2. 1Department of Ophthalmology, University of Toronto, Toronto, ON, Canada; 2Sunnybrook Health Sciences Center, Toronto, ON, Canada; 3Toronto Western Hospital, University Health Network, Toronto, ON, Canada. *CR

6270 — D1130 Multicenter Comparison of Loteprednol 0.5% vs Prednisilone Acetate 1% in Patients Post-Phacoemulsification with IOL implants. Carlos Buznego1,2, E. Paschalis1, C.V. Regattieri1, R. Dana1, C.H. Dohlman2. 1Ophthalmology, University of Miami, Miami, FL; 2Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 3Wakasa Seikatsu Co., Ltd., Kyoto, Japan. *CR


6272 — C1132 Retinal Damage in Severe Chemical Burn and the Use of Inflitixim Therapy. Fabiano Cade2, E. Paschalis1, C.V. Regattieri1, R. Dana1, C.H. Dohlman2. 1Ophthalmology, University of Miami, Miami, FL; 2Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 3Baylor College of Medicine, Houston, TX. *CR

6273 — D1133 Topical Treatment With A Selective COX-2 Inhibitor Promotes Retinal Ganglion Cell Survival After Optic Nerve Crush. Oliver W. Gramlich1, H.D. von Pein1, A. Ziegler1, K. Biz1, N. Pfeiffer1, F.H. Grau1. 1Experimental Ophthalmology, Department of Neuropathology, University Medical Center, Mainz, Mainz, Germany.


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

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

6277 — D1137 Lutein-rich Marigold Extract Induces Gene Expression Of Phase II Antioxidants In The PC12D Neuronal Cells. Seiji Miyake1,2, M. Takahashi1, M. Sasaki1,2, S. Kobayashi1, K. Tsutoba1, Y. Ozawa1,2. 1Laboratory of Retinal Cell Biology, Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 2Wakasa Seikatsu Co., Ltd., Kyoto, Japan. *CR

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

6279 — D1139 Topical Application Of Inflimix (Remicade) In The Treatment Of Corneal Cautiation. Fabio Bignami1, G. Ferrari1, C. Giacomini1, S. Franchini1. 1Molecular Weight HA Polarizes LPS-Activated Macrophages toward M2 Phenotype via CD44-Mediated Suppression of TLR4 Signaling. Hua Regatieri2, R. Dana1, C.H. Dohlman2. 1Ophthalmology, University of Miami, Miami, FL; 2Ophthalmology, University of Tokyo, Tokyo, Japan; 3Schepens Eye Research Institute, Boston, MA; 4Ocular Surface Center, Ocular Sciences Foundation, Rome, Italy.

6280 — D1140 Identification of The Anti-Inflammatory Annexin-A1 Protein in Tears of Normal Subjects and Association of its Cleaved-Inactive Form with Active Vernal Keratoconjunctivitis Patients. samia Yazid1, J.A. Khell4, B. Henderson5. 1Molecular Therapy, UCL, Institute of Ophthalmology, London, United Kingdom; 2Medicine School, University of Cambridge, UK; 3Office of Ophthalmology, Keio University School of Medicine, Tokyo, Japan; 4Ophthalmology, University of Medicine and Dentistry of New Jersey, Newark, NJ; 5Ophthalmology, University of Kentucky, Lexington, KY.

6281 — D1141 HC-HA but not High Molecular Weight HA Polarizes LPS-Activated Macrophages toward M2 Phenotype via CD44-Mediated Suppression of TLR4 Signaling. Hua He6, S.C. Tseng7. 1TissueTech and Ocular Surface Center, Miami, FL; 2Ocular Surface Center, Ocular Surface Res & Edu Findn, Miami, FL. *CR

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


6284 — D1144 A Novel Peptide Inhibits Inflammation in Endotoxin-induced Uveitis by Suppressing NF-kappaB and MAPK Signaling Pathway. Xiao lu Yang, H. Jin, X. Xu. Ophthalmology, Shanghai First People’s Hospital, Shanghai, China.


6286 — D1146 Clinical Experience With Sustained-Release Intravitreal Corticosteroid Implants: A Comparison Between The Fluocinolone Acetone (Retisert) And Dexamethasone (Ozurdex) Implants In Uveitis. Cheryl A. Arcinue1, C. Foster1, O. Cerone1, L. Almulki1. 1Uveitis and Ocular Immunology, Massachusetts Eye Research & Surgery Institution, Cambridge, MA; 2Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA.

6287 — D1147 Cytokine Levels In The Vitreous Fluid Of Patients With Ocular Sarcoidosis And Patients With Diabetic Retinopathy. Kenji Nagata1, K. Maruyama1, K. Yoneda1, T. Yoshimura2, K-H. Sonoda1, S. Kinosita1. 1Ophthalmology, Kyoto Prefectural Univ of Med, Kyoto, Japan; 2Ophthalmology, Kyushu University, Fukuoka, Japan; 3Ophthalmology, Yamaguchi University, Ube, Japan; 4Ophthalmology, Kyoto Prefectural Univ of Med, Kamigyo-Ku, Japan.

6288 — D1148 Human Tears Reveal Insights Into Corneal Neovascularization. Nadia Zakaria1,2, S. Van Grassdorf1, J. Wouters1, J. Rozema1, N. Cools1, V. Van Tendeloo1, Z. Berneman1, M-J. Tassignon1. 1Ophthalmology, 2Statistics, Hematology, Center for Cell Therapy and Regenerative Medicine, 3University Hospital Antwerp, Antwerp, Belgium; 4Center for Cell Therapy and Regenerative Medicine, Antwerp University Hospital, Antwerp, Belgium.

6289 — D1149 Errors In Measuring VEGF Concentrations In The Presence Of Anti-VEGF Antibodies By Using ELISA. Hidenori Takahashi1, Y. Fujino1, Y. Yanagi2. 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 – 6309 – Thursday – Papers

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

532 Experimental ROP

Moderators: John Flannery and Faizah N Bhatti

6293 — 11:15 Tyrosinase Function Determines Retinal Vascular Regeneration and Retinal Vascular Endothelial Progenitor Cell Recruitment in the Oxygen-Induced Retinopathy Model. Robert C. Symons1, R.S. White2, B.E. O’Bryhim1. 1Ophthalmology, Kansas University Medical Center, Prairie Village, KS; 2Ophthalmology, Kansas University Medical Center, Kansas City, KS; 3Ophthalmology; Molecular and Integrative Physiology, Univ of Kansas Medical Center, Kansas City, KS.

6294 — 11:30 Tyrosinase Function Determines Bone Marrow and Blood Endothelial Progenitor Cell Numbers in Infant Mice in Normal Conditions and After Exposure to the Oxygen Induced Retinopathy Model. Bliss H. O’Bryhim1, R. White1, A. Symons2. 1Molecular & Integrative Physiology, Univ of Kansas Medical Center, Kansas City, KS; 2Ophthalmology, Univ of Kansas Medical Center, Prairie Village, KS.


6296 — 12:00 Activation of the Endothelin System in Models of Ischemic Retinopathy. Chintan Patel1, W. Zhang2, Z. Xu2, S.P. Narayan1, N-T. Tsai1, W. Caldwell1, R.B. Caldwell2. 1Vascular Biology Center, 2Pharmacology & Toxicology, Georgia Health Sciences University, Augusta, GA; 3Ophthalmology, The University of Texas Medical Branch, Galveston, TX.

6297 — 12:15 Progressive Central Photoreceptor Damages and Retinal Pigment Epithelium Abnormalities in Oxygen Induced Retinopathy. Zhubo Shao1, J. Rivera1, 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 Nitrin-1 Promotes Vascular Regeneration in a Mouse Model of Ischemic Retinopathy. Francois Binet1, G-S. Mawambo-Tagne1, S. Favret1, N. Sitaras1, N. Tétreault1, A. Cerani1, E. Lapalme1, F. Rezende1, T. Kennedy1, 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 Rate Of Progress Of Myopia: A 5 Year Vision Crc Study. Brien Holden1,2, P.R. Sankaridurg1,3, M. Markoulli1,3, E.L. Smith, D.F. Sweeney4,3, M. Millar1,2. 1Research Center, Maisonneuve Rosemont Hospital, Montreal, QC, Canada; 2Montreal Neurological Institute, McGill University Montreal, QC, Canada; 3Ophthalmology, University at Johns Hopkins, Baltimore, MD; 4The Wilmer Eye Institute at Johns Hopkins, Baltimore, MD; 5Department of Ophthalmology, Johns Hopkins University, Baltimore, MD.


6302 — 11:45 A Novel Method to Generate Precut Tissue for Decess Membrane Endothelial Keratoplasty (DMEK). Bjorn O. Bachmann1, U. Schlotzer-Schrehardt2, M. Börgel2, F.E. Kruse1. 1Ophthalmology, Universityhospital Erlangen, Erlangen, Germany; 2Deutsche Gesellschaft für Gewebetransplantation (DGFG), Hannover, Germany.

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

534 Ocular Immune Responses

Moderators: Holly L Rosenzweig and Paul G McMenamin

6307 — 11:15 The Role of Interleukin-17A in a Spontaneous Model of Autoimmune Uveitis Elicited by Retina-specific T Cells. Benjamin C. Chao1,2, R. Horai1, J. Chen1, C. Zárate-Blades3, R. Villasen4, C-C. Chan1,2, R.R. Caspi1,2. 1Laboratory of Immunology, 2Flow Cytometry Core, 3National Eye Institute - NIH, Bethesda, MD; 4Howard Hughes Medical Institute, Bethesda, MD.

6308 — 11:30 Abundant Il-17+ T Cells Induced In Immunized C57bl/6 Mice Are Not Autoreactive. Deming Sun1, D. Liang1, A. Zuo2, H. Shao1, H.J. Kaplan1, H. Nian1. 1DVRC-411, Doheny Eye Institute, Los Angeles, CA; 2Ophthalmic & Visual Sciences, University of Louisville, Louisville, KY; 3Ophthalm & Vis Science, University of Louisville, Louisville, KY.

6310 — 12:00 Thrombospondin Receptor CD47

6311 — 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.

6312 — 12:30 In vivo Imaging of Experimental Autoimmune Uveitis disease progression in Cx3cr1-GFP and CD11c-YFP mice. Xiangting Chen1, H.R. Chinnery2, J. Kezic1, M. Sidhu1, C. Bernard1, J.V. Forrester1, P.G. McMenamin1. 1Anatomy and Developmental Biology, 2Monash Medical School, Monash University, Clayton, Australia.

6313 — 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 of Glaucoma

Moderators: Michael A Walter and Tonja S Rex


6315 — 11:30 Hmg-b1 Induces Apoptosis In Retinal Ganglion Cells And Intraretinal Inflammation By Activation Of Trl4 And Cytokine Release. Maurice Schallenberg1, H. Melkonyan1, S. Thanso1. 1Department of Ophthalmology, University Hospital Essen, Essen, Germany; 2Institute of Experimental Ophthalmology, University of Muenster, Muenster, Germany.

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

6317 — 12:00 Amyloid fibril Formation By The Olfactomedin Domain Of Myocilin. Raquel L. Lieberman1, S.D. Orwig1, C.W. Perry2, L.Y. Kim3, K.C. Turnage4, R. Zhang5, D. Vollrath6, I. Schmidt-Krey7. 1School of Chemistry & Biochemistry, 2School of Biology, 3Georgia Institute of Technology, Atlanta, GA; 4Department of Genetics, Stanford University School of Medicine, Palo Alto, CA.

6318 — 12:15 Clusterin in Age-Related Ocular Exfoliation Syndrome. Jorge Ghiozo1, I. Doudavecksi1, M. Cowman1, J. Liebmann2, C. Tello2, C. Teng2, R. Ritch3, A. Rostagno1. 1Pathology, New York University School of Medicine, New York, NY; 2Chemical and Biological Sciences, Polytechnic Institute of New York University, New York, NY; 3Einhorn Clinical Research Center, New York Eye and Ear Infirmary, New York, NY.

6319 — 12:30 LOXL-1-Associated Pathomechanisms in Exfoliation Syndrome. Katalin Csiszar1, R. Lazkoz1, K. Molinaro Szuster1, R. Ritch1. 1John A. Burns School of Medicine, University of Hawaii, Honolulu, HI; 2Einhorn Clinical Research Center, New York Eye and Ear Infirmary, New York, NY.

6320 — 12:45 Analysis Of HSP70B As A Potential Direct Target Gene Of The FOXC1 Transcription Factor. Yoko Ito1, F. Berry1, M. Walter1. 1Medical Genetics, 2Surgery, 3Univ of Alberta, Edmonton, AB, Canada.

Room 315

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

536 Horizontal and Amacrine Cells: Structure and Function

Moderators: Z. Jimmy Zhou and Bryan W Jones

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


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

6327 — 12:45 Genetic Modulation of the Ratio of Cholinergic Amacrine Cells in the GCL and INL of the Mouse Retina. Irene E. Whitney, A. Rajender, M. Rama Rao1, B.E. Reese1, G. Yoon1. 1Molecular, Cellular, and Developmental Biology, 2Neuroscience Research Institute, 3Psychological and Brain Sciences, 4University of California, Santa Barbara, CA.

Palm A

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

537 New Directions for Bipocularity, Multifocality and Restoration of Accommodation

Moderators: Jim Schwiegerling and Sanjeev Kashturirangan

6328 — 11:15 Optimizing Modified Monovision to Improve Binocular Through-Focus Visual Performance. Leon Zheleznyak1, R. Sabesan1, S. MacRae1, G. Yoon1. 1The Institute of Optics, 2Flaum Eye Institute, 3University of Rochester, Rochester, NY.

6329 — 11:30 Depth Of Focus With Induced Coma At Different Orientations. Christina Schwarz1, C. Canovas2, S. Manzanera3. 1M.Prieto1, H.A. Weeber2, P.A. Piers2, P. Arai2. 1Laboratorio de Optica, Universidad de Murcia, Murcia, Spain; 2R&D, Abbott Medical Optics, Groningen, The Netherlands.

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

6331 — 12:00 Curvature Changing Accommodating IOLs. Jim Schwiegerling, N. Savidis, S. McCaffrey. Optical Sciences, University of Arizona, Tucson, AZ.
Thursday, May 10, 2012, 11:15 AM-1:00 PM

Clinical & Epidemiologic Research

539 Diabetes and Retinal Disease

Moderators: Tunde Petro and Gavin S Tan

6341 — 12:45 Sustained IGF-1 Treatment Improves Eye Alignment in Adult Strabismic Monkeys. Linda K. McLoon1, C.L. Willoughby1, S.P. Christiansen1, V.E. Das1, M.J. Mustard1. 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 Petro and Gavin S Tan

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

6343 — 11:30 Risk Factors Associated With Branch Retinal Vein Occlusion. Paula Anne Newman-Casey1, M. Stein2, N. Talwar3, T. Gardner4, J.D. Stein5. 1Ophthalmology & Visual Sciences, Kellogg Eye Ctr, Univ of Michigan, Ann Arbor, MI.

6344 — 11:45 Prevalence, Causes and Risk Factors for Visual Impairment in a Multi-ethnic Asian Population with Diabetes. Gavin S. Tan1, Y. Zheng1, W-L. Wong1, M.K. Ikrar1, E.L. Lamoureux1, P. Mitchell2, J.J. Wang1, T.Y. Wong1. 1Singapore Eye Research Institute, 2Singapore National Eye Centre, Singapore, Singapore; 3Singapore Eye Research Institute, Singapore, Singapore; 4Department of Ophthalmology, 5Department 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 Chipas (Mexico), Cape Town (South Africa), and Taif (Saudi Arabia). Adam Turpe1, S. Colman1, J.J. Saner1, N.M. Bressler2, R. Varma3, P. Lee4, C. Dollart1, J. Ward1, Y. Xu1. 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.

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 Turpe1, S. Colman1, J.J. Saner1, N.M. Bressler2, R. Varma3, P. Lee4, C. Dollart1, J. Ward1, Y. Xu1. 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.

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 Trabeceuoplasty In The Medicare Population. Henry D. Jampel1,2, S.D. Cassard1, D.S. Friedman3, H.A. Quigley4, E.W. Gower2. 1Glaucoma Center of Excellence, 2Dana Center for Preventive Ophthalmology, 3Johns Hopkins Wilmer Eye Inst, Baltimore, MD; 4Epidemiology and Prevention, Wake Forest School of Medicine, Winston-Salem, North Carolina, 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
Thursday – Papers – 6350 – 6362

6350 — 11:30 Transient Corneal Endothelial Changes Associated With Selective Laser Trabeculectomy, Andrew J. White3, A. Mukherjee1, I. Hanspal1, N. Sarkies1, R. Martin1, P. Shah4. 1Ophthalmology, Cambridge University Teaching Hospitals NHS Foundation Trust, Cambridge, United Kingdom; 2NIHR Biomedical Research Centre, University of Cambridge, Cambridge, United Kingdom; 3Ophthalmology, NIHR BRC for Ophthalmology, Moorfields Eye Hospital & UCL Institute of Ophthalmology, London, United Kingdom; 4Ophthalmology, University Hospitals Birmingham NHS Foundation Trust, Birmingham, United Kingdom.

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 Pseudoexfoliation. Francie F. Si1, S. Kent1, C.M. Hutnik1, K. Damji1, P. Harasymowycz2, W.G. Hodge1, Y.L. Pav2, A. Crickton3. 1Ophthalmology, University of Western Ontario, London, ON, Canada; 2Ophthalmic & Vis Sciences, University of Toronto, Toronto, ON, Canada; 3Ophthalmology, University of Alberta, Edmonton, AB, Canada; 4Ophthalmology, University of Calgary, Calgary, AB, Canada.


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. Costa1, D. Godfrey1, Y.M. Buys1. Ahmed Baerveldt Comparison Study Group. 1Ophthalmology, University of North Carolina, Chapel Hill, NC; 2Gliacoma Service, Moorfields Eye Hospital, London, United Kingdom; 3Biomterautics, Univ of Miami-Hascom Palmer, Miami, FL; 4Ophthalmology, Bascom Palmer Eye Institute, Miami, FL; 5Ophthalmology, University of Campinas, Sao Paulo, Brazil; 6Glacoma 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: Stanislao Rizzo and Howard F Fine


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 Gayt1, J. Arruga Ginebreda1, J. Garcia Arumi1. 1Ophthalmology, Hospital Universitari de Bellvitge, Barcelona, Spain; 2Epidemiology, Consorci Sanitari Integral, Barcelona, Spain; 3Ophthalmology, Hospital Vall d’Hebron, Barcelona, Spain.

6360 — 12:15 Retinal MMP12/MMP13 And TIMP1/TIMP2 Expression In Experimental Murine Retinal Detachment. Colleen M. Cebulla2, B. Kim2, T. Wang2, S. Pouy3, M.H. Abdel-Rahman4, A.J. Fischer1. 1Ophthalmology, 2Ophthalmology and Division Human Genetics, 3Neuroscience, 4Ohio 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. Cestari1, B.R. Ksander4, D. Yarvas1. 1Retina, 2Neuro-ophthalmology, 3Massachusetts Eye & Ear Infirmary, Harvard, Boston, MA; 4Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 5Cleveland Clinic, Cleveland, OH; 6Scheepens Eye Research Institute, Harvard Medical School, Boston, MA.

6362 — 12:45 A Mechanics Based Model Of A Detaching Retina. Howard F Fine1, J.L. Prender1, P.L. Bishay1, D.B. Roth1, W.J. Bottega1. 1Ophthalmology, Robert Wood Johnson Univ Hosp, New Brunswick, NJ; 2Mechanical and Aerospace Engineering, Rutgers University, Piscataway, NJ. *CR.
6363 — Thursday Posters

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

Clinical & Epidemiologic Research

542 Glaucoma III

Moderator: Nathan G Congdon

6365 — A1 Evaluation of Depression in Newly Diagnosed Patients of Glaucoma Before and After Starting Ocular Hypotensive Therapy. Neelima Aron1, V. Arora2, R. Sagar2, V. Sreenivas2, A. Rathi3, S. Kumar4, M. Wadhwa3, T. Dada1. 1Dr R P Centre for Ophthalmics, 2Department of Psychiatry, 3Department of Biostatistics, 4All India Institute of Medical Sciences, New-Delhi, India; 2Department of Ophthalmology, Government Medical College, Chandigarh, India.

6366 — A2 Metabolic Syndrome and the Risk of Developing Normal Tension Glaucoma. Mijin Kim1, J. Jeoung1, W. Oh1, H. Choi1, M. Kim2, K. Park3, S. Kim1, T-W. Kim1, D. Kim1. 1Department of Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; 2Department of Ophthalmology, Seoul National University Bundang Hospital, Seongnam, Republic of Korea; 3Kong Eye Clinic, Seoul, Republic of Korea; 4Department of Ophthalmology, Healthcare System Gangnam Center, Seoul National University Hospital, Seoul, Republic of Korea; 5Department of Ophthalmology, Seoul National University Boramae Hospital, Seoul, Republic of Korea.


6368 — A6 Relationship of Structural and Functional Asymmetry to Sleep Position in Primary Open Angle Glaucoma. Eberechi Nwogu1, S. Thomas2, C. Hamill1, J. Marcus2, N.A. Loewen1. 1Ophthalmology, 2Ophthalmology and Visual Science, 3Ophthalmology & Visual Science, 4Ophthalmology, 5Yale University School of Medicine, New Haven, CT; 6Ophthalmology, Yale School of Medicine, New Haven, CT.

6369 — A7 Glaucoma Patient Day: Involving Patients, Improving Care, Prioritizing Research. Ananth C. Viswanathan1, R. Mathew2, S. Gillani1, L. Ramskold1, C. Bunce1, N. Okhravi2. 1Glaucoma Service, NIHR Biomedical Research Centre for Ophthalmology, Moorfields Eye Hospital NHS Foundation Trust and UCL Institute of Ophthalmology, London, United Kingdom; 2Glaucoma Service, Moorfields Eye Hospital NHS Foundation Trust, London, United Kingdom; 3UCL Medical School, London, United Kingdom.


6371 — A9 Profile of Patients Assisted During the 2011 World Glaucoma Week in Araguari - Minas Gerais - Brazil. Fabia f. nogueria1, 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, 2School of Medicine, 3Presidente Antonio Carlos University (UNIPAC), 4Glaucoma Patients Is Bimodal and Robust in Newly Diagnosed Glaucoma Patients Using the Visual Field Questionnaire 33 (VFQ33). 1University of Sao Paulo (USP), Ribeirao Preto, Brazil; 2Ophthalmology, University of São Paulo (USP), Ribeirao Preto, Brazil; 3Glaucoma, 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. Jinapriya. 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. Bilionick1,2, H. Ishikawa1,2, G. Wollstein1, J.S. Schuman1,2. 1UPMC Eye Center, Eye & Ear Institute, 2Ophthalmology 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. Biotechnology, Swanson School of Engineering, U. Pittsburgh, Pittsburgh, PA. 5CR

6376 — A14 Intraocular Pressure and Central Corneal Thickness in a Multi-Ethnic Asian Population: The Singapore Epidemiology of Eye Disease (SEED) Study. Ching-Yu Cheng1,2, T. Aung1,2, Y. Zheng1, X. Li1, A.R. Anuar2, M. Chev1, B. Mani3, S-M. Saw1,2, T.Y. Wong3,4, SEED Study Group. 1Department of Ophthalmology, 2Saw Swee Hock School of Public Health, 3National University of Singapore, Singapore, Singapore; 4Singapore Eye Research Institute, Singapore, Singapore.

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). Taniy Dada1, V. Arora1, S.K. Gupta1, V. Sreenivas1, P. Vashist1, T. Agarwal1, A. Pandey2. 1Department of Ophthalmic Sciences, 2Centre for Community Medicine, 3All India Institute of Medical Sciences, New Delhi, India.

6378 — A16 Risk Factors for Four-year Incidence of Open-angle Glaucoma: The Los Angeles Latino Eye Study. Xuejuan Jiang1, S. Wu1, M. Torres2, S.P. Azeni3, B.A. Francis1, V. Chopra1, B.B. Nguyen1, R. Varma1. 4Los Angeles Latino Eye Study Group. 1Ophthalmology, Doheny Eye Institute, Univ. of Southern California, Los Angeles, CA; 4Preventive 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. Takusagawa1, C. Sheppler1, C. VanAlstine1, S.K. Gardiner1, S.L. Mansberger1. 1Discoveries In Sight Laboratories, 2Devers Eye Institute, Portland, OR.


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


6385 — A23 The Association Between Compliance with Recommended Follow-up and Glaucomatous Disease Severity in a County Hospital Population. Yokho Murakami1, C. Ung1, E. Zhang2, T. Affaro2, M.I. Seidler2, K. Singh1. Ophthalmology, Stanford University, Stanford, CA; Ophthalmology, University of California, San Francisco, San Francisco, CA. *CR

6386 — A24 Systemic Illnesses In Glaucoma: A Possible Link Between Glaucoma And Breast Cancer? Felise May Barte1A, S. Mahasneh1A, B. Adams-Huet1B, K. Koerner2A. Ophthalmology, 1Clinical Sciences, 1University of Texas Southwestern Medical Center, Dallas, TX.


6388 — A26 Direct Cost Of Glaucoma Treatment For Patients With Primary Angle Closure Glaucoma Over 10 Years. Kailing Hoon1, H.M. Hoon1, D.T. Quek1, V.W. Wang1, E.L. Lamoureux, HP1, T. Aung1. Ophthalmology, Singapore National Eye Centre, Singapore, Singapore; Statistic(Admin), Singapore Eye Research Inst, Singapore, Singapore; ‘Center for Health Services Research, Singapore Health Services, Singapore; ‘Ophthalmology, University of Melbourne, Melbourne, Australia; ‘Singapore Eye Research Institute, Singapore National Eye Centre, Singapore; ‘Glaucoma, Singapore National Eye Center, Singapore, Singapore.


Hall B/C A80-A98

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

Visual Psychophysics & Physiological Optics

543 Color Vision

Moderators: Dora F Ventura

6390 — A80 Learning to Name Colors Altered by Colored Filters. Thomas Kuyk1, A. Smith1, S. Kummu2. 1TASC, Inc, Ft Sam Houston, TX; 2Air Force Research Laboratory, Ft Sam Houston, TX.


6395 — A85 Color Contrast Sensitivity Estimated With Two Different Psychophysical Methods. Luiz Carlos L. Silveira1, C.D. Perry1, E.C. Lacerda1, M.M. Jacob1, G.S. Souza1, R.D. Gomes1, M.E. Fitzgerald1. "Nucleo de Medicina Tropical, 1Instituto de Ciencias Biologicas, 1Universidade Federal do Para, Belem, Brazil; 2Biology, Biology Xavier University of Louisiana, New Orleans, LA; 3Anat & Neurobiol & Ophthalmol, University of Arizona, Tucson, AZ.

6396 — A86 Color Discrimination Task Using Pseudoisochromatic Stimulus; Luminance Noise Variation Provides Better Sensitivity Than Noise Mean Luminance. Bruno D. Gomes1, T.L. Carmichael1, M.M. Jacob1, E.C. Lacerda1, G.S. Souza1, M.E. Fitzgerald1. "Instituto de Ciencias Biologicas, "Nucleo de Medicina Tropical, 1Universidade Federal do Para, Belem, Brazil; 2Natural Science, 2Biology, 3Christian Brothers University, Memphis, TN; 4Anat & Neurobiol & Ophthalmol, UTHSC, Memphis, TN.

6397 — A87 Magno- And Dorsal Stream Processing Decline Slower Than Parvocellular Performance In Normal Aging. Maria F. Loureiro1, C. Mateus1, B. Olivereos1, R. Lemos1, A. Reis1, M. Castelo-Branco1. "Visual Neuroscience, IBILI-Faculty of Medicine-University of Coimbra, Coimbra, Portugal; "Ophthalmology, University Hospital of Coimbra, Coimbra, Portugal.

6398 — A88 Binocular Enhancement of Color Contrast Sensitivity. Jeff C. Rabin1, B. Stewart2, V. Wong1, J. Boster1, M. Rue1, L. Tran1, J. Gooch1, S. Wright1. "Ophthalmology, UIW Rosenberg School of Optometry, San Antonio, TX; "Ophthalmology, USAF School Aerospace Medicine, Dayton, OH.


6400 — A90 Cone Isolating Electroretinograms In Individuals With A Mutant Opsin Allele Associated With Cone Dystrophy. James A. Kuchenbecker1, S.H. Greenland1, J. Carroll2A, G.A. Fishman1, M.A. Gneude1, T.B. Connor, Jr1, M. Neitz1, J. Neitz1. "Ophthalmology, University of Washington, Seattle, WA; "Ophthalmology, 1Cell Biology, 1Medical College of Wisconsin, Milwaukee, WI; "Chicago Lighthouse for People Who Are Blind or Visually Impaired, Chicago, IL; "Ophthalmology and Vision Sciences, University of Illinois - Chicago, Chicago, IL; "The Pangere Center for Hereditary Retinal Diseases, Chicago, IL.

6401 — A91 Color vision of female carriers and color vision deficiency subjects evaluated with the Cambridge Colour Test. Daniela M. Bonci1, M. Neitz1, J. Neitz1, M. Gualtieri1, M.T. Barboni1, T.L. Costa1, L.L. Silveira1, D.F. Ventura1. "Experimental Psychology, University of Sao Paulo, Sao Paulo, Brazil; 2Ophthalmology, University of Washington, Seattle, WA; 3Nucleo de Medicina Tropical, Universidade Federal do Para, Belem, Brazil.


*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 – 6382 – 6404

11:16 am – 1:30 pm

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

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


6409 – A302 Activation of the Aldosterone/Mineralocorticoid Receptor System and Protective Effects of Mineralocorticoid Antagonism in Retinal Ischemia- Reperfusion Injury. Kazuyuki Hirooka1, Y. Liu1,2, T. Fujita1, F. Lublin, Lublin, Poland.


6411 – A304 Neuroprotective Effects Of Erythropoietin In Mouse Models With Retinal Degeneration. Jasmin Balmer, M. Tshopp, M. Menke, M. Gassmann, S. Wolf, V. Enzmann. 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 Substitution Of A Dhea-analogue. Pavлина A. Tsoka1A, I. Charalampopoulos1A, A. Gravanis1A, M.K. Tsihilbaris2. 1Neurology & Sense Organs, 2Pharmacology, University of Crete, Harkalon, Crete, Greece; 3Ophthalmology-Research Act, University of Crete, Harkalon, Greece.

6413 – A306 The Effect Of Ketone Bodies On The Synthesis Of Kynurenine Acid In Bovine Retinal Slices. Tomasz Zarnowsk1A, M. Tulidowicz1A, T. Choragiewicz1A, R. Robert1A, T. Kocki1A, W. Turski1A. 1Dept of Ophthalmology, 2Dept of Pharmacology and Toxicology, Medical University Lublin, Lublin, Poland.

6414 – A307 Neuroprotective Effects Of Sirna, Targeted Caspase9, And Ateolecocan Complex On Rat Retinal Damage Induced By Transient Ischemic Injury. Shinichiro Ishikawa1, A. Hirata1, J. Nakabayashi1, R. Ikvář1, S. Okinami1. 1Sagá University Faculty of Medicine, Osaka, Japan; 2Sagá Memorial Hospital, Osaka, Japan.

6415 – A308 Subretinal Electrical Stimulation Preserves Visual Acuity In Dystrophic RCS Rats. Vincent T. Ciavatta1A, M.H. Aung2A, T.S. Obertone2A, J.K. You1, M.T. Pardue1A,2A. 1Rehab 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 Gnfd In Retinal Degeneration. Elodie Touchard1A, P. Heiduschka2, M. Berdugo1A, L. J-C. Jeanny1A, F. Behar-Cohen1A. 1INSERM UMRS 872, Paris, France; 2Univ Eye Hosp Muenster, Muenster, Germany; 3CNRS UMR8151, Paris, France; 4Ecole Nationale Veterinaire d’Alfort, Maisons-Alfort, France.

6417 – A310 Increased Susceptibility to Retinal Stress in Mice Lacking Sigma Receptor 1 (eR1). Yonju Ha1A, A. Saut1B, C. Williams1B, E. Zorilla1A, V. Ganapathy1A, S.B. Smith2A. 1Cell Biology and Anatomy/Vision Discovery Institute, 2Ophthalmology, Cell Biology and Anatomy, 3Biochemistry and Molecular Biology, 4Georgia Health Science University, Augusta, GA; 5Harold L. Dorris Neurological Institute, The Scripps Research Institute, La Jolla, CA.

6418 – A311 Arginase2 Deficiency Reduces Hypoeryxia-induced Retinal Neodegeneration through the Regulation of Polyamine Metabolism. S. P. Narayanan1A, J. Sasanpradit1A, Z. Xie1A, T. Lemitlais1B, N. Putluri1, A. Seekumarn1, R.W. Caldwell2A, R.B. Caldwell2A,3. 1Vascular Biology Center, 2Department of Pharmacology and Toxicology, 3Georgia Health Science University, Augusta, GA; 4Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX; 5VA Medical Center, Augusta, GA.

6419 – A312 The Protective Effects Of Brimonidine For ARPE-19 And Muller Cells Exposed To Hydroquinone In Vitro. Mohamed Tarek1, C.A. Ramirez1, M. Chwa2, G. Limb1, B.D. Kuppermann1, C.M. Kenney1. 1Ophthalmology, Gavin Herbert Eye Institute, Irvine, Irvine, CA; 2Ophthalmology, University of California Irvine, Irvine, CA; 3UCaril Biologics and Therapeutics, UCI Institute of Ophthalmology, London, United Kingdom; 4Gavin Herbert Eye Inst Dept Ophthal, University of California Irvine, Irvine, CA; 5Ophthalmology, Uniof California-Irvine, Irvine, CA.


6422 – A315 Quantum Dots As Neuroprotective Factor In A Model Of Retinal Photoreceptor Degeneration. Raúl Velez-Montoya1A, M. Mandava1A, C.R. Stoldt1A, J.L. Olson1B. 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 Fan1A, A. Montemar1A, S. Ross1, G. Parisi1, F. Lamoke1A, F. Facchiano1B, G. Rippandelli1B, M. Bartoli1B. 1Ophthalmology, Pharmacology and Toxicology, 2Georgia Health Sciences University, Augusta, GA; 3Experimental Medicine and Pathology, University of Rome La Sapienza, Rome, Italy; 4Hematology and Oncology, Istituto Superiore Di Sanita, Rome, Italy; 5Fondazione GB Bietti, Rome, Italy.


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

6426 — A319 DHA Restores HNE And PEDF By Inhibiting Oxidative Damage In RPE At High Glucose Levels. Emma Arnal1, S. Johnsen-Soriano1, M. Miranda2, A. Navea1, J. Romero1,2, Y. Courtis1,2. F.F. Behr-Cohen1, UMRs 872 team 17, INSERM, paris, France; UMRs 872 team 17, Université Pierre et Marie Curie et Université Descartes, Paris, France; Ophthalmology, Hotel Dieu de Paris, Université Paris Descartes. INSERM UMRs872, Paris, France.

6427 — A320 Transferrin Delivery In The Eye Protects Photoreceptors From Light-Induced Retinal Degeneration. Emilie Picardi1, M. Berdugo1, M. El Sanharawi2, J-C. Jeanny1,2, Y Courtis1,2. F.F. Behr-Cohen1, UMRs 872 team 17, INSERM, paris, France; UMRs 872 team 17, Université Pierre et Marie Curie et Université Descartes, Paris, France; Ophthalmology, Hotel Dieu de Paris, Université Paris Descartes. INSERM UMRs872, Paris, France.

6428 — A321 Iron Chelation Protects Against Murine Retinal Degeneration Induced Through Diverse Mechanisms. Joshua L. Dunaief1, M. Hadziahmetovic1, D. Song1, Y. Song1, Y Li1, S. Greico1, S. Chu1, J. Connelly1, M. Spino1. EM Kirby Ctr/Ophthalmology, Dept of Ophthalmology, University of Pennsylvania, Philadelphia, PA; EM Kirby Ctr, Scheie Eye Institute Univ of Penn, Philadelphia, PA; Dept of Ophthalmology, Peking Union Med College Hosp, Beijing, China; ApoPharma, Inc., Toronto, ON, Canada. *CR

6429 — A322 Iron Accumulation In Animal Models Of Genetic Retinal Degeneration: Human Transferrin As A Protector For Photoreceptors. Jean-Claude P. Jeanny1, L. Jonet1, M-H. Vesvres1, C. Sergeant1, F. Guilloux1, F.F. Behr-Cohen1, C. Ves1, E. Picardi1. UMRs 872 team17, INSERM Centre des Cordeliers, Paris, France; UMRs 872 team 17, Université Pierre et Marie Curie et Université Descartes, Paris, France; UMR 5084, Nuclear and Bio-environmental Chemistry, CNRS, Bordeaux, France; UMR 6175, Physiologie de la Reproduction et des Comportements, INRA, CNRS, Université de Tours, Paris, France.

6430 — A323 TUDCA Prevents Microglia Activation In The P23H Rat Retina. Laura Fernandez-Sanchez1, A. Noailles1, I. Pinilla1, J. Martin-Nieto1, P. Lax1, N. Cuencas1. Physiologie, Genetix & Microbiologia, University of Alicante, Alicante, Spain; Ophthalmology, University Hospital Lozano Blesa. Arosa Health Sciences Institute, Zaragoza, Spain.

6431 — A324 Gentamicin-Induced Retinal Degeneration in Dutch Belted Rabbits. Omar Delgado1, J. Demiris1, S. Louie1, M. Crowley1, S. Poor1, S. Hanks1, C. Bigelow1, Y. Zhang1, B. Jaffe1, S-M. Liao. Ophthalmology, Novartis, Cambridge, MA.

6432 — A325 Fixation Stability and Central Retinal Sensitivity after Intravitreal Autologous Bone-Marrow Stem Cells for Hereditary Retinal Dystrophy. Rubens C. Siqueira1, A. Messias1,1, J.C. Volterrani1, L. Vieira1,2, G.R. Araujo2,3, M. Spino1. 1Retina, Bone Marrow Transplantation, Sao Paulo University, Ribeirao Preto, Brazil; 2Department of Ophthalmology, Federal University of Sao Paulo, Ribeirao Preto, Sao Paulo, Brazil.

6433 — A326 Retinal Sheet Transplants Benefit Rats with Rod Degeneration, Revealed By Optokinetic Testing And Manganese-Enhanced MRI (MEMRI). Robert B. Aramant1, M.J. Seiler1, D.P. Bissig2, R. Roberts3, W. Qi4, Z. Chen4, S. Rana4, J. Almodovar5, H.S. Keirstead6, B.A. Berkowitz7, S.H. Tsang1, I.A. Barbazetto2, R. Allikmets1. 1Ophthalmic Research, Cole Eye Institute, Cleveland Clinic Regensburg, Regensburg, Germany; 2Bone Marrow Transplantation, Sao Paulo University, Ribeirao Preto, Sao Paulo, Brazil; 3Department of Ophthalmology, University Hospital Lozano Blesa. Aragon Health Sciences Institute Molecular Diagnostics Laboratory, Oregon Health Science University, Portland, OR; 4ApoPharma, Inc., Toronto, ON, Canada; 5Department of Ophthalmology, University of Erlangen-Nuremberg, Erlangen, Germany; 6Ophthalmology, University Hospital Erlangen, Erlangen, Germany.

6434 — A327 A SubmicronVotl Focal ERG Technique for Evaluating Macular Function in Stargardt/FF Dysrophy: Clinical Assessment of Test Reliability. Benedetto Falsini1, M. Piccardi1, D. Marangoni1, A. Minnella1, M. Bertelli1, S. Bisti1, A. Fadda1. Ophthalmology, Catholic University, Rome, Italy; Ophthalmology, MAGI Laboratory for molecular genetics in rare diseases, Rovereto, Trento, Italy; Physiology, University of L’Aquila, L’Aquila, Italy; Health and Technology, Istituto Superiore di Sanita, Rome, Italy.


6436 — A329 Progressive RPE Dystrophy in Dutch Belt Rabbits. Meg Ramos1, I. Raymond1, M. Kelly1, A. Fadda2, J. Burke1B, S. Whitcup1C. 1Ophthalmology, Columbia University, New York, NY; AAnatomy and Cell Biology, BAnatomy and Development, BBiological Sciences, CResearch & Development, 1Allergan, Inc, Irvine, CA; AAnatomy and Cell Biology, BAnatomy and Development, 1Allergan, Inc, Irvine, CA.

6437 — A330 Retinal Degeneration and Microglial Activation in Mouse Models of Neuronal Ceroid Lipofuscinoses. Myriam Mirza1, C. Ghosn1B, J. Burke1B, S. Whitcup1C. 1Ophthalmology, Columbia University, New York, NY; 2Department of Ophthalmology and Neuroscience, Johns Hopkins University, Baltimore, MD.

6438 — A331 Recording Electrodynmics of the Human Retina with High Spatial Resolution in the Presence of Intraocular Foreign Objects. D. Marangoni1, A. Minnella1, M. Bertelli1, S. Bisti1, E. Picardi1. Ophthalmology, Catholic University, Rome, Italy; Ophthalmology, MAGI Laboratory for molecular genetics in rare diseases, Rovereto, Trento, Italy; Physiology, University of L’Aquila, L’Aquila, Italy; Health and Technology, Istituto Superiore di Sanita, Rome, Italy.

6439 — A332 Early S Cone Loss And L/m Cone Opsin Delocalization In The Canine Model Of Rpe65 Deficiency. Daniela Klein1, A. Mendes-Madeira2, B. Loven3, F. Rolling1, S. Haverkamp1, K. Stieger3. 1Department of Ophthalmology, Justus Liebig University Giessen, Giessen, Germany; 2Laboratory for Gene Therapy, University of Nantes, Nantes, France; 3Neuroanatomy, Max-Planck-Institut for Brain Research, Frankfurt, Germany.

6440 — A333 Degenerative Changes At The Rod Photoreceptor Synaptic Ribbon In Aging Db2/j Mice. Michael Scholz1, M. Fuchs2, J. Atorff1, R. Enz1, J.H. Brandtstatter2. 1Anatomy 2, 2Biologie, 3Department of Biology, 1University of Erlangen-Nuremberg, Erlangen, Germany; 2Ophthalmology, University Hospital Erlangen, Erlangen, Germany.


6443 — A336 Retinal Histopathology in Eyes from a Patient with Autosomal Dominant Retinitis Pigmentosa caused by the Pro23His Rhodopsin Mutation. Mary E. Rayborn1,4, V.L. Bonilha1, A. Bell1, M.J. Marino1, G.J. Pauer1, C.D. Beight1, E.J. Traboulsi1, S.A. Hagstrom1, J.G. Hollyfield1. 1Ophthalmology, University of Regensburg, Regensburg, Germany; 2Department of Ophthalmology, University Eye Clinic Regensburg, Regensburg, Germany.

6444 — A337 Retinal Histopathology from a Patient with Autosomal Recessive Retinitis Pigmentosa caused by EYS Mutations. Meghan J. Marino1,4, V.L. Bonilha1, M.E. Rayborn1,4, B.A. Bell1, G.J. Pauer1, C.D. Beight1, J. Chiang1, E.J. Traboulsi1, S.A. Hagstrom1, J.G. Hollyfield1. Ophthalmic Research, Cole Eye Institute, Cleveland Clinic, Cleveland, OH; 2Casyee Eye Institute Molecular Diagnostics Laboratory, Oregon Health Science University, Portland, OR.
545 Retinitis Pigmentosa III

Moderator: Hendrik P Scholl


6446 — A372 Role of ER Stress-Induced Caspase6 in Retinal Degeneration of T17M Rhodopsin Transgenic Mice. Shreyasi Choudhury, M.S. Gorbatyuk. Cell Biology And Anatomy, University of North Texas Health Science Center, Fort Worth, TX.

6447 — A373 Additional Neuroprotective Effects Of Prolinsulin On Vision And Retinal Structure In The Rd10 Mouse Model Of Retinitis Pigmentosa. Enrique J. de la Rosa1, N. Forns2, M. Marchena2, A. Hernandez-Pinto1, R. Steel1, Zieger1A, C. Schubert1A, P. Uhrin1B, P.K. Ahnelt1A.

6448 — A374 Long-Term Rescue with Gene Therapy in a Mouse Model of Autosomal Dominant Retinitis Pigmentosa (ADRP). Haoyu Mao1, M.S. Gorbatyuk1, B. Rossmiller1, W.W. Hauswirth2, A.S. Levin2. Molecular Genetics & Microbiology, Molecular Genetics & Microbiology, Ophthalmology, University of Florida, Gainesville, FL; 3Department 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. Jacobus J. Dudok, A. Sanz Samz, D. Lundvig1, V. Sothilingam1, M. Garcia-Garrido2, N. Tanimoto1, J. Klooster2, J. Janrish1, M. Seeliger2, J. Wijnholds1. Neuromedical Genetics, Netherlands Inst for Neurosci, Amsterdam, The Netherlands; 2Division of Ocular Degeneration, Cr Ophthal Inst Ophthalmic Resch, Tuebingen, Germany; 3Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX.

6450 — A376 Altered Fractalkine Homeostasis In Rd10 Degenerating Mouse Retina. Marina Zieger1, C. Schubert1, P. Uhren1, P.K. Ahnelt1. 

6451 — A377 Characterization of a humanized Mouse-Model for X-linked Retinitis Pigmentosa caused by a point mutation in the Rprg gene. Jutta U. Schlegel1, D. Röll1, M. Bergmann2, B. Lorenz2, K. Stieger1. 1Department of Ophthalmology, 2Department of Veterinary Anatomy, Justus-Liebig-University Giessen, Giessen, Germany.


6453 — A379 ER Stress is Involved in Retinal Degeneration Induced by Human T17m Mutant Rhodopsin. Mansi M. Kunte1, S. Choudhury2, V.M. Shinde1, J.F. Manhimen1, M. Miura2, O.S. Gorbatyuk3, M.S. Gorbatyuk1. 1Cell Biology and Anatomy, UNT Health Science Center, Fort Worth, TX; 2Laboratory for Cell Recovery Mechanisms, Brain Science Institute, RIKEN, Tokyo, Japan; 3Department of Molecular Genetics and Microbiology, University of Florida, Gainesville, FL. *CR

6454 — A380 Ethanol Consumption Correlates with Retinal Degeneration and Vision Loss in the P23H Rat. Gema Esquivel1, P. Lax1, L. Fernandez-Sanchez1, A. Noailer1, J. Pinilla1, N. Cuenca1. Physiology, Genetics and Microbiology, University of Alicante, Alicante, Spain; 2Ophthalmology, Universityary Hospital Lozano Blesa, Zaragoza, Spain.


6456 — A382 Cb1 And Cb2 Receptors Cell Division During Retina Development. Lucie P. Pellissier1, C.H. Alves1, D. Lundvig1, M. Garcia-Garrido1, V. Sothilingam1, N. Tanimoto1, J. Klooster1, J. Janrish1, M. Seeliger2, J. Wijnholds1. Neuromedical Genetics, Netherlands Inst for Neurosci, Amsterdam, The Netherlands; 2Division of Ocular Neurodegeneration, Institute for Ophthalmic research, Tuebingen, Germany; 3Institut de Biologie du Développement de Marseille Luminy, Marseille, France.

6457 — A383 Deficiency in the Pro-Apoptotic CHOP Protein, a UPR Downstream Marker, Does Not Prevent Vision Loss in T17M Rho Retina. Sonali R. Nashine1, A.S. Leuin1, M.S. Gorbatyuk1. 1Cell Biology and Anatomy, University of North Texas Health Science Center, FortWorth, TX; 2Molecular Genetics & Microbio, University of Florida, Gainesville, FL.

6458 — A384 Effects of Chlorin e6 on Retinitis Pigmentosa Rhodopsin Mutants in vivo. Fernanda Balemi1,2, P.S. Akamine3, G.L. Ishimoto4, B.V. Nagy4, D.F. Ventura4, J. Klein-Seetharaman1, D. Hamassaki5. 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. Rossmiller1,2, H. Mao1,2, A.S. Levin1,2. Molecular Genetics & Microbiology, Molecular Genetics & Microbio, University of Florida, Gainesville, FL; 2Department of Molecular Genetics and Microbiology, 3Department of Molecular Genetics and Microbiology, 4University of Florida, Gainesville, FL.


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

6462 — A388 Analysis Of Photoreceptor Abnormality In Gucy2d E837D/R838S Transgenic Pigs. Corinne Kostic1, T. King1, C. Sylvain1, S. Philippe2, S. Lillo1, C. Sarkis1, J. Maillet1, Y. Arsenijevic2, B. White1. 1Gene Therapy & Stem Cell Biol, Jules-Gonin Eye Hosp, Univ Lausanne, Lausanne, Switzerland; 2Division of Developmental Biology, The Roslin Institute, University of Edinburgh, Scotland, United Kingdom; 3NewVextys, Paris, France; 4Team of Biotherapy and Biotechnology, CRICM, Paris, France. *CR

Hall B/C A389-A436

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

Biochemistry & Molecular Biology

546 AMD Disease Mechanisms II

Moderator: Anneke I Den Hollander

6463 — A389 Establishing a Human AMD Interactome. Paul Wong1, D.A. Ferrington1, T.W. Olsen2. 1Ophthalmology, Emory University, Atlanta, GA; 2Ophthalmology, University of Minnesota, Minneapolis, MN.


6466 — A392 Properdin and Malondialdehyde (MDA) effects on the APOE4 mouse model of Age-Related Macula Degeneration (AMD). Una L. Kelly1, M. Groelle2, J. Ding3, W-C. Song4, C. Bowes Rickman5, 1Ophthalmology, 2Pharmacology and Cell Biology, 3Department of Medical Chemistry, Durham, NC; 4School of Medicine, University of Pennsylvania, Philadelphia, PA.

6467 — A393 Pro-oxidant Properties of Human Retinal Melanolipofuscin in the Presence of Iron Ions; Comparison with Lipofuscin and Melanosomes. Malgorzata B. Rozanowska1, R. Edge2, F. Tuna3, 1School of Medicine, 2School of Pharmacy, 3University of Western Ontario, London, ON, Canada.

6468 — A394 Therapeutic Effects Of Fenofibrate On Laser-induced Choroidal Neovascularization. Yang Hu1, Y. Chen1, J-X. Ma1. 1OUHSC BSEF 300, 2Harold Hamm Oklahoma Diabetes Ctr, 3Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK; 4Physiology, OUHSC, Oklahoma City, OK.

6469 — A395 Mechanism Of All-Trans-retinal Toxicity: Implications For Stargardt’s Disease And Age-related Macular Degeneration. Ju Chen1, K. Okano1, T. Maeda1,2, V. Chauhan1,2, M. Golczak1, A. Maeda1,2, P. Palczewski1, 1Pharmacology, 2Ophthalmology, Case Western Reserve University School of Medicine, Cleveland, OH; 3Ophthalmology, Case Western Reserve University, Cleveland, OH.

6470 — A396 Early Thinning Of The Retina Correlates With Increased Expression Of Immune Response Genes In The Harlequin Mouse. Justin G. Meyers1, K.A. Hill2, C.M. Huntk3, 1Biology, University of Western Ontario, London, ON, Canada; 2Ophthalmology, Ivey Eye Institute, London, ON, Canada.

6471 — A397 Alu Rna Induced Rpe Degeneration Via Iii8-myd88-caspase-3 Signaling. Valeria Tarallo, Y. Hirano, B.D. Gelfand, N. Kera, B.J. Fowler, J. Amati. Ophthalmology, University of Kentucky, Lexington, KY.


6474 — A400 Microrna-335 Inhibits Sod2 Expression And Increases Oxidant-induced Rpe Cell Injury. Haijiang Lin1, B.F. Godley1, 1Ophthalmology, 2Pharmacology, 3University of Texas Medical Branch, Galveston, TX.

6475 — A401 The Inflammatory Response To Immune Complex Formation In The Retina. Salome Marinello1, A.J. Lotery1, V. Perry1, J.L. Teeling1, 1Centre for Biological Sciences, 2Faculty of Medicine, 3University of Southampton, Southampton, United Kingdom.

6476 — A402 Elucidating the correlation between the levels of Macular Xanthophylls and A2E In Normal Indian Donor Eyes, Srinivasan Senthilkumari1, R. Ranjith Kumar1, A. Kotnali1, T. Velpandiar1, 1Department of Ophthalmology, Aravind Medical Research Foundation, Madurai, India; 2Department of Ophthalmology & Pharmacy, All India Institute of Medical Sciences, New Delhi, India.

6477 — A403 Linking Retinoids To Clinical Patterns Of Amd. Zsolt Ablonczy1, D. Higbee1, A.M. Hanneken2, K.L. Schey3, Y. Koutalos1, R.K. Crouch1, 1Ophthalmology, Medical University of South Carolina, Charleston, SC; 2Molec & Exp Med, The Scripps Research Institute, La Jolla, CA; 3Biochemistry, Vanderbilt University, Nashville, TN.

6478 — A404 Quantiﬁcation Of CEP By LC MS/MS. Geeng-Fu Jang1, L. Zhang1, L. Hong2, H. Wang1, R.G. Salomon1, J.W. Crabbl1, 1Cole Eye Institute, Cleveland Clinic, Cleveland, OH; 2Department of Chemistry, Case Western Reserve University, Cleveland, OH.

6479 — A405 Cigarette Smoke Triggers Excessive Complement Activation In Human RPE Cells: Involvement Of Nrf2 signaling, Lei Wang, K. Naoshi, K.B. Ebrahimi, M.D. Canol, J.T. Handa. Ophthalmology, Johns Hopkins Univ., School of Medicine, Baltimore, MD.

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

6481 — A407 Amlyoid-β Peptide Induces Angiogenesis In The Adult Zebrafish Retina. Khomthon P. Cunvong1, D. Cameron2. 1Graduate College of Biomedical Sciences, 2College of Optometry, Western University of Health Sciences, Pomona, CA.

6482 — A408 Intense Physiological Light Upregulates VEGF and Promotes Choroidal Neovascularization via PGC-1α/ERR-α Pathway. Takashi Ueta1, T. Inoue2, K. Yuda1, T. Furukawa2, Y. Yanagi1, Y. Tamaki1. 1Ophthalmology, Univ of Tokyo, School of Med, Bunkyo-ku, Japan; 2Department of Developmental Biology, Osaka Bioscience Institute, Suita, Osaka, Japan.

6483 — A409 Genetic Association of Glucose Transporter Type 1 Variants with Age-Related Macular Degeneration and its Direct Interaction with Complement Factor H at the Protein Level. Elod Kortvelyi1, A.J. Don Hollandier1, M. Gorza1, V. Cipriani1, J.R. Yates1, C. Hayward2, A.F. Wright2, S. Fauser1, C.C. Hoog2, M. Ueffting3. 1Centre for Ophthalmology, University of Tuebingen, Tuebingen, Germany; 2Department of Ophthalmology, Radboud University Nijmegen, Medical Centre, Nijmegen, The Netherlands; 3Research Unit for Protein Science, Helmholtz Zentrum München, German Research Center for Environmental Health, Neuherberg, Germany;

Wednesday – Posters – 6464 – 6485

Thursday Posters – 6486 – 6495

Thursday – Posters
**6486 — A412** Characterisation Of The Large Macromolecular MMP Complex Of Human Bruch’s Membrane With Respect To Stability, Activation And Effects Of Ginseng Compounds. Jong Dol Shin1, J. Seok2, C. Sim1, M. Kang1, H. Shin1, Y. Lee1, A. Hussain1. 1Jeonbuk National University, Jeonju-si, Republic of Korea; 2GBioMix, Jeonju-si, Republic of Korea; 1Korean Atomic Energy Research Institute, Daejeon, Republic of Korea; 2Division of Molecular Therapy, UCL Institute of Ophthalmology, London, United Kingdom. *CR

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

**6488 — A414** Translational diffusion of ranizumab and bevacizumab as measured by Fluorescence Recovery after Photobleaching (FRAP), Nishanthan Srikantha1A, K. Suhling1B, Fluorescence Recovery after Photobleaching (FRAP). Eiichi Nishimura1,2, M. McCloskey1, Y. Jiang1, G.W. activator, suppress laser-induced CNV in Mice. — A413 Kingdom. UCL Institute of Ophthalmology, London, United Kingdom.

**6489 — A415** Identifying the Roles of Interferon-γ-Inducible Chemokines in Progression of Age-related Macular Degeneration (AMD). Syeda F. Absar1, D. Cyr1, A.D. Proia2, M.T. Malik1, P. Bev1, 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, B.D. Gelfand, S. Dridi, B.J. Fowler, S. Nagaraj kerur, V. Tarallo, Y. Lee1, A. Hussain1. 1Neuron Science Department, Korea Atomic Energy Research Institute, Daejeon, Republic of Korea; 2GBioMix, Jeonju-si, Republic of Korea; 1Physics, JeonBuk University, Jeonju, Republic of Korea; 2Division of Molecular Therapy, UCL Institute of Ophthalmology, London, United Kingdom. *CR

**6495 — A421** The Kinetics of Retinal Gene Expression Profile of Cel2/Cx3cr1 Double Deficient Mice on rd8 Background. De Fen Shen1, Y. Wang1, K. Jin1, J. Tuo1, M. Xiang2, C-C. Chen1. 1Laboratory of Immunology, National Eye Inst/NHI, Bethesda, MD; 2Center for Advanced Biotechnology and Medicine, University of Medicine and Dentistry of New Jersey, Piscataway, NJ.


**6498 — A424** Understanding The Mechanism Behind Enhancing Survival Of Photoreceptors In Culture And Regulation Of Photoresponse Metabolism. Ken Lindsay1,2, T.A. Reh1, J.B. Harley1, D. Lamba2, J. Gust1,2. 1Biochemistry, 1Biological Structure, University of Washington, Seattle, WA.


**6500 — A426** Effect Of Divalent Metal Chelation On The MMP System And Transport Characteristics Of Human Bruch’s Membrane. Yunhee Lee1, A. Hussain1, J. Marshall1. 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. Aihua Liu1, R. Terry1, K. Nelson1, X. Sheng1, P.S. Bernstein1. 1Ophthalm & Visual Sci, Univ of Utah/Moran Eye Center, Salt Lake City, UT; 2Department of Pediatrics, Univ of Utah/Department of Pediatrics, Salt Lake City, UT.

**6503 — A429** Differential gene expression of RPE cells in C5h transgenic mice. Cynthia X. Wang, K. Zhang, B. Aredo, R. Ufret-Vincenty. Ophthalmology, UTSW Medical Center, Dallas, TX.


**6505 — A431** Modifications Of Glycoproteins In The Bruch’s Membrane Via Glycerolaldehyde Or Nitration: A Model For Aging And Inflammation. Mai T. Thao1, J.P. Dillon2, E.R. Gaillard3. 1Chemistry and Biochemistry, Northern Illinois University, Sycamore, IL; 2Chemistry and Biochemistry, 3Northern Illinois University, DeKalb, IL.


**6507 — A433** Arms2 In/del Polymorphism Predicts Response To Intra Vitreal Anti-vegf Therapy For Choroidal Neovascular Age-related Macular Degeneration (amd). Alan J. Franklin1, M.F. Shuler1, S. Gupta1, J. Myers2, W.B. Lauten3. 1Retina Specialty Institute, Mobile, AL; 2Retina Specialty Institute, Pensacola, FL; 3Retina Specialty Institute, Pensacola, FL. *CR
6508 — A434 Conditional Knock-Out of Ran-binding protein 2 (RanBP2)/Nucleoporin 358 (NUP358) in the Retinal Pigment Epithelium Results in the Activation of Membrane to Nuclear Signaling Pathways and Hallmark Features of Age-Related Macular Degeneration (AMD). Paulo A. Ferreira1A, A. Saha1, E. Haque1, Y-Z. Le1, M. Webb1. Ophthalmology, Duke University Medical Center, Durham, NC; 2Medicine, Univ of Oklahoma Hlth Sci Ctr, Oklahoma City, OK.

6509 — A435 Image Registration Reveals Sites of Injury from Mitochondrial Oxidative Stress in the Retinal Pigment Epithelium. Alfred S. Lewin1, M.P. Krebs2, S. Soo1A, K. Jones1A, H. Mao1B, 2Ophthalmology, Rudolf Foundation Clinic, Vienna, Austria; 3Institute for Laboratory Medicine/SMZ-East, Vienna, Austria; 4Gynecology, Medical University of Vienna, Vienna, Austria. *CR

6510 — A436 Genetically-related Inflammatory Priming and Failing Retinal Maintenance Predispose to Age-Related Retinal Degeneration in Mice. Debarshi Mustafi1A, H. Kohno1A, K. Palczewski1B, T. Maeda1B, 2Molecular Genetics & Microbiology, 1University of Florida Coll of Medicine, Gainesville, FL. *CR

6511 — A513 Associations Between Early Signs Of Age-related Macular Degeneration (AMD) And Risk Of AMD In The Fellow Eye In Patients With Unilateral AMD. Mariko Sasaki1A, R. Kawasaki1B, A. Uchida1, T. Koto1, H. Mochimaru2, H. Shinoda3, T.Y. Wong1A, 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. *CR


6513 — A515 Genes And Prevention Of Blindness: Risk Factors Associated With Age-related Macular Degeneration In A Brazilian Population. Priscila H. Rim1A, 2A.P. Marques-de-Faria1B, L.A. Magna1B. 1Ophthalmology, 2Medical genetics, Univ Estadual de Campinas, Campinas, Brazil.

6514 — A516 Do Ultraviolet Radiations Induce Earlier Aged Ocular Pathologies Among Mountainiare Guides? Hussam El Chehab1, C. Dot1, J. Blein1, J. Herry1, J. Giraud1, F. May1, R. 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.

6515 — A517 Impact Of Visceral Fat, Serum Leptin Levels And High-sensitive Crp Levels On The Pathogenesis Of Age-related Macular Degeneration. Paulina Haas1A, K. Kubista1B, W. Krugluger1B, J. Huber1B, S. Binder1B. 1Ophthalmology, Rudolf Foundation Clinic, Vienna, Austria; 2Institute for Laboratory Medicine/SMZ-East, Vienna, Austria; 3Gynecology, Medical University of Vienna, Vienna, Austria. *CR

6516 — A518 Correlation Of Osteoporosis And Incidence Of Skin Cancers and AMD grade in the Irish Nun Eye Study Population. Evelyn Moore1, V. Silvestri1, M. Stevenson3A, G. Silverstein2B. 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.

6517 — A519 Plasma Homocysteine And Extracellular Soluble Receptor For Advanced Glycation End Products (esRAGE) In Aqueous Humor Of Patients With Age-related Macular Degeneration. Pinio Matoula1A, K. Niniou1A, N. Szentmary1A, R. Obeid1B, B. Seitz1A. 1Department of Ophthalmology, 2Department of Clinical Chemistry and Laboratory Medicine, University of Saarland, Homburg, Germany.

6518 — A520 Visual Impairments In Age-related Macular Degeneration To Process Spatial Frequencies During Natural Scene Categorization. Baxandra Heri1, B. Mase1, S. Chokron1, C. Chiquet1, J. Roman1, J. Le Bas1A, P. Carole1. 1Ophthalmology, Hospital Albert Michallon, Grenoble, France; 2Labeatoire de Psychologie et Neurocognition, CNRS UMR 5105, Grenoble, France; 3Fondation Ophthalmologique Rothschild, Unité Fonctionnelle Vision et Cognition, Paris, France; 4Université Joseph Fourier - Institut des Neurosciences, INSERM U836, Grenoble, France.

6519 — A521 Contrast Sensitivity As A Predictor Of Central Field Loss. Jennifer Wallis1, P.J. 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.

6520 — A522 A Canadian Registry Of Lucentis Treatment To Collect Effectiveness And Safety Data In Patients With Neovascular Age-related Macular Degeneration Over 36 Months (LENS): Findings From A 12-month Interim Analysis. Sebastien Olivier1, A. Charbonneau2, M. Guinta1, P. Saurel1, M. Bense1, B. Reboul1, F. De Takacsy1, R. Li1. 1Ophthalmology, Hospital Maisonneuve-Rosemont, Montreal, QC, Canada; 2Polyclinique de Trois-Rivières, Trois-Rivières, QC, Canada; 3Université de Sherbrooke, Sherbrooke, QC, Canada; 4Clinique ChirurgiVision, Drummondville, QC, Canada; 5Health Sciences Centre-Eye Clinic St John’s, St John’s, NL, Canada; 6Everest Clinical Research Services Inc, Markham, ON, Canada; 7Novartis Pharmaceuticals Canada Inc., Dorval, QC, Canada. *CR

6521 — A523 The Impact Of Anti-vegf Treatment On Vision-related Quality Of Life In Age-related Macular Degeneration Outside Clinical Trials. Robert P. Finger1, J.B. Hassell1, F. Abd1, M.C. Gillies2, J.E. Keefie3, R.H. Guymer1. 1Centre for Eye Research Australia, Melbourne, Australia; 2Save Sight Institute, Sydney, Australia. *CR

6522 — A524 Outcome Study of Treating Neovascular Age-related Macular Degeneration: Preliminary Results. Margriet I. van der Reis1, M. Elshout1, Y. de Jong - Hesse1, E.C. La Heij2, P.J. Ringens2, F. Hendriks1, C.A. Webers3, J.S. Schouten1. Ophthalmology, Eye Clinic Maastrict, Maastrict, The Netherlands; 2Ophthalmology, VU University Medical Center, Amsterdam, The Netherlands; 3Ophthalmology, University Medical Center Utrecht, Utrecht, The Netherlands.


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

6525 — A527 One year’s treatment with intravitreal Ranibizumab (lucentis®) and Verteporfin PDT combination Therapy at Month 2 for Neovascular Age-related Macular Degeneration (AMD). Eric Fourmaux1, M. Dominguez1, L. Rosier1, L. Velasque. Retine Tourny, Bordeaux, France.

Hall B/C  A513-A539
Thursday, May 10, 2012, 11:15 AM-1:00 PM
Retina

547 AMD Clinical Research VII

Moderator: Jordi M Mones

6511 — A513 Associations Between Early Signs Of Age-related Macular Degeneration (AMD) And Risk Of AMD In The Fellow Eye In Patients With Unilateral AMD. Mariko Sasaki1A, R. Kawasaki1B, A. Uchida1, T. Koto1, H. Mochimaru2, H. Shinoda3, T.Y. Wong1A, 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. *CR


6513 — A515 Genes And Prevention Of Blindness: Risk Factors Associated With Age-related Macular Degeneration In A Brazilian Population. Priscila H. Rim1A, 2A.P. Marques-de-Faria1B, L.A. Magna1B. 1Ophthalmology, 2Medical genetics, Univ Estadual de Campinas, Campinas, Brazil.

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

6537 – A539 Within-visit And Between-visit Repeatability Of The Diagnosys Full-field Stimulus Threshold (D-FST) When Measuring Rod Sensitivity In Patients With Atrophic Age-related Macular Degeneration. Martin Klein1, D.G. Birch1,2, J. Chandler3, J. O’Connell1, F.A. Folgar1, J.G. Christenbury1.

6534 – A536 Evaluation of Peripheral Fundus autofluorescence Changes in Patients with Wet ARMD: The OTELLO Study. Anita Zenger1, M.B. Rougier, II1, P.E. Stanga2, S. Schmitz-Valkenburg1, L. Reznick1, U.E. Wolf-Schnurbusch1,2, 4Bern Photographic Reading Centre, Ophthalmology, University Bern, Bern, Switzerland; 4Service d Ophthalmologie, CHU-Bordeaux Univ de Bordeaux, Bordeaux, France; 3Vitreoretinal Unit, Manchester Royal Eye Hospital, Manchester, United Kingdom; Ophthalmology, University of Bonn, Bonn, Germany; 2Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany.


6540 — A542 Involvement of PXE7 receptor and therapeutic efficacy of Brilliant Blue G in a mouse model of subretinal hemorrhage. Shoji Notomi1, T. Hisatomi1, A. Takeda2, Y. Ikeda3, H. Enaide1, T. Ishibashi, Sr. Ophthalmology, Dept of Ophthalmology, Kyushu University, Fukuoka, Japan; Department of Ophthalmology, Kyushu University, Higashi-ku, Japan.

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

6542 — A544 Localization & Physiology of L-type Ca2+ Channels in Human RPE. Qin Wan, Y. Baghragn, R. Li, J. Adjantio, 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. Salka Hile, Z. Pertene, K. Juuti-Uusitalo3,2, K. Larsson3,2, H. Skottman3,2, J. Hyttinen1. Department of Biomedical Engineering, Tampere University of Technology, Tampere, Finland; BioMediTech, Tampere, Finland; Institute of Biomedical Technology, University of Tampere, Tampere, Finland.

6545 — A547 Alpha 2 adrenergic agonist receptor in chick retina. Gabriella V. Costa1,4, M.K. Shigetomi1,2, K. Junti-Uustialuoto1,2, K. Larsson3,2, H. Skottman3,2, J. Hyttinen1. Department of Biomedical Engineering, Tampere University of Technology, Tampere, Finland; BioMediTech, Tampere, Finland; Institute of Biomedical Technology, University of Tampere, Tampere, Finland.

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


6548 — A550 Loss of Hfe Leads to Progression of Tumor Phenotype in Primary Retinal Pigment Epithelial Cells. Jaya Pranava Gnana Prakasam1, R. Veeranan-Karmegam1, V. Coothankandaswamy1, S.K. Reddy1,2, P.M. Martin1,4, M. Thangaraju1, S.B. Smith1, V. Ganapathy1,2. Biochemistry and Molecular Biology, Cellular Biology and Anatomy, Georgia Health Sciences University, Augusta, GA.
Thursday – Posters – 6549 – 6571

11:15 AM – 1:00 PM

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

549 Ganglion Cell Function, Injury, Protection and Imaging

Moderators: James E Morgan and Jonathan G Crowley

6570 — A208 Exogenous PACAP Acts as a Retinoprotective Agent and a Modulator on Microglia/Macrophages Status in Mice NMDA-induced Retinal Injury Model. Yoshihiro Wada1,2, T. Nakamachi1,2, K. Endo1,2, T. Seki1,2, S. Shioda1,2, R. Koide1,2. 1Department of Ophthalmology, 2Department of Anatomy, Showa University School of Medicine, Tokyo, Japan.

6571 — A209 Increased Neuro-retinal Injury After Intraocular Pressure Elevation In Xenotemicochondal Mice And Compensation By Ophxos Complex IV. Ian A. Trounce1, N. Van Bergen1, G. Kong1, V. Chrysosotomou1, C.A. Pinkert1, J.G. Crowston1. 1Center for Eye Research Australia, University of Melbourne, Melbourne, Australia; 2College of Veterinary Medicine, Auburn University, Auburn, AL.
Thursday Posters

6572 — A210 Elevated Intraocular Pressure Increases Serine Protease Levels In The Retina And Promotes Retinal Ganglion Cell Loss. Shrvan K. Chintala, 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. Libin 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. Sablijic, 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 Functions And Cholesterol Homeostasis In The Retina. Cynthia Fourgeux1, L. Martino1, L. Leclerc2, B. Buteau1, A. Brost, C-G. Catherina2, L. Bretilion1. INRA, 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 Transsection. SeokHwan Kim1, J. Park2, M. Kim1, M. Kim2, D. Kim1, J. Jeoung1, T-W. Kim1, K. Park2. 'Ophthalmology, Boramae Hospital, Seoul, Republic of Korea; 'Ophthalmology, Seoul National University Hospital, Seoul, Republic of Korea; 'Ophthalmology, Seoul National University Bundang Hospital, Kyunggi, Republic of Korea; 'Ophthalmology, Seoul National University Bundang Hospital, Seongnam, Republic of Korea.


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


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

6584 — A222 Acid Spi glyminelayn Plays a Role in IR-induced Retinal Degeneration. Je Fan1, B.X. Wei2, Y.A. Hamann2, C.E. Crosson2. 'Ophthalmology-Storm Eye Inst, 'Biochemistry and Molecular Biology, 'Ophthalmology, 'Medical Univ of South Carolina, Charleston, SC.

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

6586 — A224 E3anercept, A Widely Used Inhibitor Of Tumor Necrosis Factor-α (tnf-α), Prevents Retinal Ganglion Cell Loss In A Rat Model Of Glaucoma. Min Roah, Y. Zhang1, Y. Murakami1, A. Thanos2, D.G. Vasuvs3, L. Benowitz2, J.W. Miller1. 'Ophthalmology, MEEI, Angiogenesis Lab, Boston, MA; 2Neuroscience, 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 Ju1A, D. Lee1A, K-Y. Kim1A, Y. Noh1A, R.N. Weinreb1A. 'Glaucoma Research Laboratory, Dyson Institute, Weil Medical College of Cornell University, New York, NY; 'Avalanche Biotechnologies, Inc, Redwood City, CA; 'Helen Wills Neuroscience Institute, University of California at Berkeley, Berkeley, CA. *CR

6588 — A226 Onocostatin M Protects Retinal Ganglion Cells in an Optic Nerve Crush Mouse Model. Xin Xia1, Y. Li2, Z. Wang1, L. Luo1, R. Wei1. 'Bascom Palmer Eye Institute, University of Miami, Miami, FL; 'Department of Ophthalmology, Shanghai First People’s Hospital, Jiaotong University, Shanghai, China.


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

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


* 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 398
6619 A608 Avrand Pseudoxefoliation Study (APEX) I: Intraoperative Results.


6621 A610 Reduced Laser Pulse Width Improves Cutting Efficiency in Laser Refractive Cataract Surgery.
Simone Schneider1A, H. Uy2. Cataract Surgery. 1Steag & Partners, Santa Ana, CA; 2Research & Development, Pomona Arcuate Incisions, Fontana, CA.

6622 A611 Morphology of Femtosecond Intrastromal Arcuate Incisions.
Perry S. Binder1, B. Gray2A, M. Brownell2B, J. Martiz, MD3, A. Gwon, MD4, J. Hill5. Ophthalmology, Dept Ophthalmology, Baylor College of Medicine, Houston, TX; 2CD6-Optica i Optometria, Universitat Politecnica Barcelona, Barcelona, Spain; 3Gavin Herbert Dept of Ophthal, UMEA University, Umea, Sweden; 4Abbott Medical Optics, Thousand Oaks, CA; 5Intrastr & Clinical Sci, University of California Irvine, Newport Beach, CA.

6623 A612 Posterior Capsule Opacification of a 1-piece and a 3-piece Microincision Intracocular Lens - 1 year Comparison.
Ana Prinz1, B. Weingessel1, O. Fend2, P.V. Vessei-Marlovits3. 1Department of Ophthalmology, Hietzing Hospital, Vienna, Austria; 2Department of Ophthalmology, Hanusch Hospital, Vienna, Austria.

6624 A613 Impact Of Cataract Density On Axial Length Measured With Partial Optical Coherence Interferometry.
Nicola Cardascia1, C. Palmisano1, G. Alessio1, C. Borghia1. Ophthalmology, Policlinico Bari, Bari, Italy.

6625 A614 Corneal And Total Optical Quality After 2.2mm Coaxial Mini-incision Cataract Surgery Combined With Bimanual Irrigation-aspiration.
Corinne Dot1, H. El Chehab1, P. Savary1, E. Agard1, A. Malcles1, N. Chave1, G. Ract-Madoux1, J. Giraud1. 1Ophthalmology, Hospital Desgenettes, Lyon Cedex 03, France; 2Department of Ophthalmology, Hospital Desgenettes, Lyon, France.

Sergio D. Herrera, Sr., O. Guerrero, Sr., B. Medina, C. Palacio, C. Mendoza, L. Arroyo. Anterior Segment, Hospital Foundation; Mexico, Mexico.

6627 A616 Major Breed Distribution and Common Histopathologic Findings in Canine Globes Encuclated as a Result of Glaucoma Following Cataract Surgery.
Erin M. Scott1, D.W. Essex2, K.J. Fritz3, R.R. Dubielzig1. Pathobiological Sciences, UW-Madison School of Veterinary Medicine, Madison, WI; 2Eye Care for Animals, Tusin, CA.

6628 A617 Correlation Of Subjective Nuclear Sclerotic Cataract Grading And Intraoperative Cumulative Dispersed Energy During Phacoemulsification.
Nakul Shekhwati1, A. Chomsky2,3. 1Vanderbilt University School of Medicine, Nashville, TN; 2A VA Tennessee Valley Healthcare System, Nashville, TN.

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

6630 A619 Objective Discrimination Between Operable And Non-operable Cataracts.

6631 A620 Subjective Outcomes Evaluation of Aspheric Dioptric and Appoed Dioptric Aspheric Multifocal IOLs. Dwayne K. Logan1, E. Sadr1. 1Cataract and Refractive Surgery, Atlantis EyeCare, Long Beach, CA; 2Cataract and Refractive Surgery, Atlantis EyeCare, Newport Beach, CA.


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

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

6635 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.

6636 A625 Continuous Intraocular Pressure Measurements During Small Incision Phacoemulsification Surgery In Porcine Eyes. Seung Youn Jeu1, M. Son1, T. Baek1, J. Lee2. 1Ophthalmology, GM St. Mary eye center, Busan, Republic of Korea; 2Ophthalmology, Haedaneu Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea.

6637 A626 Silicone Sleeve Polishing Of Posterior Capsule, A Safe And Costless I/A Technique. Jean-Marie Giraud1, H. El Chehab1, J-R. Fenolland1, M. Francoz2, D. Sendon1, F. El Asr1, C. Denier1, C. Dot1, F. May1, J-P. Renard2. 1Ophthalmologie, Hopital d’Instruction des Armees du Val de Grace, Paris, France; 2Ophthalmologie, Hopital d’Instruction des Armees Desgenettes, Lyon, France.

6638 A627 Intracameral Anesthesia For Cataract Surgery, A Population-based Study On Patient Satisfaction And Outcome. Inger M. Westborg1, E. Monestam1. 1Ophthalmology, Eye Clinic, Sunderby Hospital, Lulea, Sweden; 2Clinical Sci & Ophthalm, UMEA University, Umea, Sweden.

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

6640 A629 Viscoat Versus Vissthesia During Phacoemulsification Cataract Surgery: Corneal And Foveal Changes. Marilita M. Moschos1, E.P. Chatziriadli1, T.N. Sergentanis1B, I. Ladadis1. 11st Department of Ophthalmology, 2Department of Epidemiology and Biostatistics, 1University of Athens, Athens, Greece.


6642 A631 A Comparative Study of Phacoemulsification With the Ozil Intelligent Phaco(IP) handpiece and OZII handpiece:retrospective clinical study. Yoshinao Setoguchi1, H. Itou1, H. Nakashiki1, K. Kurda1, K. Amemiya1, M. Taniguchi1, Y. Okamoto1, A. Ootani1, Y. Tanaka1. 1Japanese Red Cross Wakayama Medical Center, Wakayama, Japan; 2Tanaka Eye Clinic, Wakayama, Japan.

6643 A632 Balancing the Small Angle Domain (Acuity) and the Large Angle Domain (Straylight) of the Point-Spread-Function for Cataract Surgery. Thomas J. Van Den Berg1, I.J. van der Meulen2. 1Ophthalmic Research, Netherlands Inst for Neurosci, Royal Acad, Amsterdam, The Netherlands; 2Ophthalmology, Academic Medical Center, Amsterdam, The Netherlands.

*CR: Travel Grant Awardee
6644 — A633 Comparison of surgically-induced astigmatism after a 2.2 mm vs. 2.6 temporal corneal incisions in more than 2 years follow-up. Lei Zheng, J.C. Merriam. Ophthalmology, Columbia Univ-Harkness Eye Inst, New York, NY.


6646 — A635 The Effect Of Anterior Capsulorhexis Optic Capture Of A Sulcus Fixeded Iol Implant On Refractive Outcome. Eoghan R. Miller1, K. Merchant2, D. Steel1. 1Royal Victoria Infirmary, Newcastle upon Tyne, United Kingdom; 2Sunderland Eye Infirmary, Sunderland, United Kingdom.

6647 — A636 Comparison Of Visual Outcomes Of Toric Intraocular Lenses Implanted By Resident Surgeons Using Keratometry Measurements From An Autofractor Or The IOLMaster In The Setting Of A Veterans Hospital. Benjamin A. Katz1, C.R. Blake1, S.W. Ross1. 1Ophthalmology, University of South Carolina, Columbia, SC; 2Ophthalmology, Dorn Veterans Hospital, Columbia, SC.

6648 — A637 Iris-sutured Posterior Chamber Intraocular Lenses: Visual Results And Complications About 76 Cases. Olivier Le Moigne, M. Muraune, 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. Shah1, J. Tzu2, A. Gallor3, A.K. Junk3, C.W. See4, S.R. Wellek5. 1College of Human Medicine, Michigan State University, Grand Rapids, MI; 2Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL; 3Ophthalmology, Miami Veterans Affairs Medical Center, Miami, FL; 4Columbia University, New York, NY; 5Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Plantation, FL.

6652 — A641 Pre-Clinical Evaluation of Femtosecond Laser-assisted Capsulotomy In Cataract Surgery. James E. Hill1, L.C. Huang1, B. Gray1, P. De Guzman1, A. Gwon2, L.G. Vargas1, M. Brownell1. 1Biological Sciences R&D, R&D Equipment, 2Abbott Medical Optics, Santa Ana, CA; 3University of California Irvine, Irvine, CA. *CR


6654 — A643 Clinical Outcomes at a VAMC after the Introduction of Universal NSAID Therapy Perioperatively in Cataract Patients. Cameron C. Johnson1, R.A. Rombola, II1, P.J. Krall1. 1Ophthalmology, College of Medicine, 2University of Florida, Gainesville, FL.


6656 — A645 Sutureless transcleral Intraocular Lens implantation after ocular trauma. Malek Khouani1, D. Gaucher2, T. Bourcier3, C. Speeg2, M. Montard1. 1Ophthalmology, Hospital Civil de Strasbourg, Strasbourg, France; 2Ophthalmology, University Hospital of Bascon, Bascon, France; 3Ophthalmology, University Hospital of Besancon, Besancon, France.


6658 — A647 Change In Central Corneal Volume After Cataract Surgery. Melissa M. Wong1, A. Shukla2, W.M. Munir1. 1Ophthalmology, Boston Univ School of Med, Boston, MA; 2Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA.


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

6662 — A651 Preoperative Cataract Density Grading by Scheimpflug Imaging and its influence on operative fluids and phacoemulsification energy. Jesus Arrieta-Camacho1, V. Estefan1, A.J. Ramirez-Miranda1, E. Chavez Mondragon1. 1Anterior Segment, Inst de Oftalmologia CONVAL, Mexico City, Mexico; 2Cornea and refractive Surgery, Instituto de Oftalmologia Conde de Valenciana, Mexico City, Mexico.


6664 — A653 Shadowphotography of IOL Injectors and Clear Cornea Incision Size. Alejandro Arboleda1, E. Arrieta1, D. Nankivil2, M.C. Aguilar1, K. Sotolongo1, S.H. Yoo1, J-M.A. Pare2. 1Ophthalmic Biophysics Center, Dept. of Ophthalmology, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL; 2Biomedical Optics and Laser Laboratory, Dept. of Biomedical Engineering, University of Miami College of Engineering, Coral Gables, FL. *CR


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

6667 — A656 Management of Retained Lens Fragments After Phacoemulsification: Comparing Visual Outcomes of Early Pars Plana Lensectomy versus Late Pars Plana Lensectomy. Garerah Abed1, T. Cledan1, L. Marouf. 1Department of Ophthalmology, Univ of Texas Health Sci Center, San Antonio, TX; 2Retina Associates of South Texas, San Antonio, TX.

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

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


6674 — A663 The Effect of Acute Heat Stress on Lens Epithelial Cells: A Novel Therapeutic Strategy for Posterior Capsule Opacification. Matthew Balazi1, B.F. Fernandes2, S. Di Cesare2, S.C. Maloney3, T.J. Graner3, M.N. Burnier, Jr.3. 1Henry C Witelson Ocular Pathol Laboratory, Montreal, QC, Canada; 2Ocular Pathology, 2Ophthalmology, McGill University, Montreal, QC, Canada. *CR


6679 — A669 Morgagnian Cataract Simulating Iris Neoplasia: Case Report. Alessandra Protti1, S.A. Gandolfi2, P. Morå3, L. Zografos4. 1Ophthalmology, University of Parma, Parma, Italy; 2Ophthalmology, Jules-Gonin Eye Hospital, Lausanne, Switzerland.

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

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

Lens

552 Cataract Complications and Drugs

Moderator: Paul G FitzGerald

6681 — D701 Conjunctival Bacterial Flora And Antibiotic Resistance Patterns After Pre-Operative Application Of Topical Levofloxacin 0.3%. Herminia Mino de Kaspar1, L.E. Hoffmann1, L. He2, B. Li3, M.M. Nentwich1, C. Hartigou2, D. Kook3, M. Grueterich1, A. Kampik1. 1Department of Ophthalmology, Ludwig-Maximilians-University, Munich, Germany; 2Department of Ophthalmology, School of Medicine, Stanford University, Stanford, CA.

6682 — D702 Hypertension Complicated by Cardiovascular Disease is an Important Risk Factor for the Development of Intraoperative Floppy Iris Syndrome. Cynthia I. Tung1, C. Haritoglou1, A. Kshetrapal, W. Trattler3. 1Department of Ophthalmology, University School of Medicine, Boston, MA.


6688 — D708 Management Of Vitreal Loss From Posterior Capsular Rapture During Cataract Operation: Posterior Versus Anterior Vitrectomy? Chaerin Park1,2, S. Wool3, J. Hyon1, T. Kim3, P. Park3. 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 Treif1, P.A. Legutko2, M.K. Daly3. 1Ophthalmology, Veterans Affairs Boston Healthcare System, Boston, MA; 2Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA; 3Semphonic, Novato, CA; 4Ophthalmology, Boston University School of Medicine, Boston, MA.

6690 — D710 Clinical Efficacy Of Loteprednol Etabonate Gel 0.5% In The Treatment Of Ocular Inflammation And Pain After Cataract Surgery. Rajesh K. Raipal1, R. Siou-Mermet2, T.E. Erb3, T.L. Comstock4. 1Cornell Consultants, PC, McLean, VA; 2European Pharmaceutical Clinical Science, Bausch & Lomb, Montpellier, France; 3Biostatistics, 4Medical Affairs, Global Pharmaceutical, 5Bausch & Lomb, Rochester, NY. *CR

6692 — D712 Effect of Modified Cyclosporine A on Lens Epithelial Cell and Corneal Endothelial Viability. Elizabeth A. Lutz1, D.A. Wilkie1, A.J. Gemenysky-Metzler2, H.L. Chandler2, 2Veterinary Clinical Sciences, 1Optometry, The Ohio State University, Columbus, OH.


6694 — D714 Incidence Of Postoperative Complications In Infants Undergoing Bilateral Simultaneous, Bilateral Sequential, Or Unilateral Cataract Surgery. Sheela Masiri1, E. Agabeji2, B. Schnell2, M.B. Yang1, A. Mozayan1, 2Department of Ophthalmology, 1The Institute of Ophthalmology, 6698 — CR Independence, MO. Discover Vision Centers, Post Operatively after Phacoemulsification in Glaucoma Patients Using Difluprednate 0.5%. E. Bittner1, J. Cotliar, A. Mozayan1, J. Prince-Wolfish, J. Laroche.1 Ophthalmology, Medical University of Warsaw, Warszawa, Poland.


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


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. Eliner, R.M. Shtein. Kellogg Eye Center, University of Michigan, Ann Arbor, MI.

6706 — D726 Risk Factors For Developing Capsular Distension Syndrome. Maged Nessim1,2, P. Pandy3, M. Tahan3, P. Good3, A-J. Ghawi4, 1Glaucoma Services, 2Visual Sciences, 3Birmingham & Midland Eye Centre, Birmingham, United Kingdom; 4Sandwell General Hospital, Birmingham, United Kingdom.


6708 — D728 Factors Influencing Retinal Image Contrast in Eyes with Retrodots(Rykjavik Eye Study). Kota Nagai1, N. Mita1, N. Hatusaka1, R.Honda1, H. Osada2, E. Kubo2, H. Sasaki2, K. Sasaki2, F. Jonasson3. 1Ophthalmology, Nagai Eye Clinic, Ibaraki, Japan; 2Department of Ophthalmology, Oapi@phthalmology, Kagahara City, Japan; 3Department of Ophthalmology, Kagahara City, Japan.

6709 — D729 Ultrastructural Changes In The Crystalline Lens Of Diabetic Patients Treated With Panretinal Argon Laser Photocoagulation. Zelihra Uzur, M. Kilic1, E. Erdemli1, F. Topal Celikkan1, 1Ophthalmology, Ankara Numune Education and Research Hospital, Ankara, Turkey; 2Histology, Ankara University Medicine Faculty, Ankara, Turkey.

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

Lens

553 Cataract Training, Modeling, Pediatrics

Moderator: Paul G FitzGerald

6710 — D730 A Comparison of the Outcomes of Resident-Performed Phacoemulsification in Patients on Alpha Blockers Before and After the Description of Floppy Iris Syndrome (IFIS). Asher Neren1, A. Greenberg1, E. Burstein1, C. Muhkopadhyay1, A. Schrier2, E. Smith1. 1Ophthalmology, VA Medical Center Brooklyn, Brooklyn, NY; 2Ophthalmology, Columbia University Medical Center, New York, NY.


6713 — D733 Determination of Endotoxin Concentration in Hydrophilic Acid by The Light Scattering Method. Taiki Oshida1, Y. Sugiar1, T. Asano1, T. Hiroto1, M. Sawa1. 1Division of Ophthalmology, Department of Visual Sciences, Nihon University School of Medicine, Tokyo, Japan; 2Biophotonics Section, Research & Development Department, Electronics & Optics Division., Kowa Company, Ltd., Tokyo, Japan.


*Refer to Program Number in the Commercial Relationships (CR) Index for Disclosures – 2 Refer to Program Number in the Clinical Trial (CT) Registration Index – 3 Travel Grant Awardee
**Thursday Posters**

11:15 am – 1:00 pm

**Thursday – Posters**


6717 – D737 Risks Factors and Regression Model for Risk Calculation of Anesthesiologic Intervention in Routine Cataract Surgery. Javier Moreno-Montanes, Sr1,4; A. Sabater1,4, J. Barrio-Barrio1,4; J. P. Estrelic1,4; E. Cacho-Ansio1,4; M. García-Granero2. *Ophthalmology, 3Anesthesiology, Clínica Universidad de Navarra, Pamplona, Spain; 4Genética, Universidad de Navarra. Unidad de Estadística, Pamplona, Spain.


6719 – D739 Resident Cataract Surgery Outcomes with Toric Intraocular Lenses. Helen R. Moreira1, P.B. Greenberg, MD2. *Ophthalmology, 1Clinica Universidad de Navarra., Pamplona, Spain; 2Department of Ophthalmology, Albert Einstein College of Medicine, Bronx, NY.


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 Arrita, D. Nankivil, K. Sotolongo, A. Arboleda, M.C. Aguilar, E. Hernandez, S. Yoo, J-M. Parel. *Ophthalmology, 1Biophysics Center, Dept. of Ophthalmology, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL.*CR


6725 – D745 Validity of a Miniaturised Openfield Aberrometer with Surgical Application. James S. Wolffsohn1, U.K. Bhatt1, A.L. Sheppard2, S. Shah1, H. Dua2, T. Mihashi1, T. Yamaguchi1. *School 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


6727 – D747 In Situ Modification of Customized IOLs using the Phase Wrapping Algorithm. Ruth Sahler1, J.F. Bille1, R. Aguillera1, S. Zhoor1, D. Schanzlin1. *Medical Physics, University of Heidelberg, Heidelberg, Germany; 2Physics, University of Heidelberg, Mannheim, Germany; 3Aaren Scientific Inc, Ontario, CA; 4R&D, Aaren Scientific Inc, Irvine, CA; 5Shiley Eye Center, UCSD, San Diego, CA.*CR


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


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


*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

404
6751 — D771 Modified Frontalis Sling with Lash Repositioning in Pediatric Ptosis Repair. Jacqueline K. Ng, J. Ng. Ophthalmology, Oregon Health and Science University, Portland, OR.


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


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

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

6758 — D778 Method for Measuring Lacrimal Drainage Resistance. Milap Mehta1, J.D. Perry2. Ophthalmology, Cleveland Clinic-Cole Eye Inst, Cleveland, OH; 2Ophthalmology, Cole Eye Institute, Cleveland, OH.


6760 — D780 Catheter Assisted Conjunctivodacryocystorhinostomy (CDCR) for Improved Surgical Efficiency. Charline 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. Mitchell3. Ophthalmology, University of Sydney, Sydney, Australia; 2Discipline of Orthoptics, University of Sydney, Lidcombe, Australia.

6763 — D783 Outcomes Associated with Cataract Surgery in the Pediatric Medicaid Population. Michelle Tarver1, M.K. Repka1, H. Silverman1, R. Domurat2, N. Kordie3, T. Macurdy4. CDRII/ODE/DONED, Food and Drug Administration, Silver Spring, MD; 2Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD; 3Acumen, LLC, Burlington, CA.


6766 — D786 Evolution Of Axial Length In Congenital Glaucoma. Bruno Sautiere1a, A. Duhamel1, A. Gallet2a, J-E. Rouland4a. Ophthalmology, Anesthesiology, Huriez Hospital, CHRU Lille, Lille, France; 2Biostatistics unit, CHRU Lille, Lille, France.

6767 — D787 Central Corneal Thickness and Intraocular Pressure in Moderate-Late Premature School Aged Children. Lina H. Raffa1, A. M. D’Souza2, J. Dahlgren3, A-K. Karlsson4, M.A. Gronland5. 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.
Thursday Posters

6768 – D788 Access To Government-insured Vision Care Versus Privatized Dental Care Amongst Canadian Adolescents: Is Cost The Sole Barrier? Kungyoung Yie1, G. E. Trope2, K. Thavorn3, Y.-P. Jin4,4A. Michael G DeGroote Sch of Med, McMaster University, Hamilton, ON, Canada; 2Department of Ophthalmology and Vision Sciences, 3Institute of Health Policy, Management and Evaluation, 4Dalhousie School of Public Health, 5University of Toronto, Toronto, ON, Canada.

6769 – D789 IOLUnder 2: Outcomes Following Surgery With And Without Primary Intraocular Lens Implantation In Children under 2years Old. Lola A. Solo1, J.S. Rahl1A, 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. Foster3, D. Comstock4, 1Department of Medical Education, Riverside Methodist Hospital, OhioHealth, Columbus, OH; 2Division of Ophthalmology, Section Oculofacial Plastic and Reconstrucive Surgery, Ohio University, Doctor’s Hospital, Columbus, OH; 3Nationalwide Children’s Hospital, Columbus, OH; 4Center for Injury Research and Policy, The Research Institute at Nationwide Children’s Hospital, Columbus, OH; 3Division of Epidemiology, The Ohio State University College of Public Health, Columbus, OH.

6771 – D791 Investigation on the reading ability in the hyperopic children at the Nishikasai Inouye Pediatric Eye Clinic, Mieko tsuruoka1, O. Katsumi1, M. Miyata2, M. Suzuki3, Y. Aoki1, Y. Miyanaga1, K. Inoue4, K. Oda3. 1Inst of Medical and Life Sciences, Gothenburg, Sweden; 2Dept of Pediatrics, Institute of Clinical Sciences, Gothenburg, Sweden.


6776 – D796 Natural History And Risk Factors Analysis For Retinopathy Of Prematurity In Premature Infants In Taiwan: A Prospective Study At The Post Beavizumab Era. Yi hsing 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 Chi1, Y. Chan1, E. Lamoureux1, J. Thumbboo1, T. Wong1, S. Saw2. 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 Muthusamy1, B. Dey2, V. Kannusamy1, F. Moutapppa2, H.J. Park3. Pediatric Ophthalmology & Strabismus, The Wilmer Eye Institute, Johns Hopkins Hospital, Baltimore, MD; 2Pediatric Ophthalmology & Strabismus, Aravind Eye Hospital, Pondicherry, India.


6783 – D803 Barriers to Care Following Failure of Population Based Vision Screening. Kristin Ravey, 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 Kri1, 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 Invest 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. M. Perez3, C.J. Kaiser4, A. Koreishi5, P. Majmudar6, R.J. Epstein7, S. Bagd6, R. Malhotra7. 1Washington Eye Physicians and Surgeons, Chevy Chase, MD; 2Cornea, Center For Excellence In Eye Care, Miami, FL; 3‘Our for Excellence in Eye Care, Miami, FL; 4Cornea Associates of Texas, Dallas, TX; 5Chicago Cornea, Chicago, IL; 6Cleveland Eye Clinic, Cleveland, OH; 7Ophthalmology Associates, St. Louis, MO. *CR, ¶


6791 — D955 An Experimental Evaluation Of Know Computer Models Of The Porcine Cornea. Vito Romano1, M. Angellillo1, A. Pandolfi2. Second University of Naples, Napoli, Italy; 1University of Salerno, Salerno, Italy; 1Politecnico di Milan, Milano, Italy.

6792 — D956 Automated Measurement Of Corneal Stromal Collagen Fiber Angular Distribution. Moritz Winkler1, K.R. Hucllin1, C.J. Murphy1, D.J. Brown1, J.V. Jester1. Ophthalmology, University of California, Irvine, Irvine, CA; 1Flaum Eye Institute, University of Rochester, Rochester, NY; 1Surgical Radiol Sci-Sch of Veterinary, Univ of California-Davis, Davis, CA.

6793 — D957 Biomechanical Response of Paired Donor Corneas To An Air Puff: Isolated Cornea vs Intact Whole Cornea. Kimberly Metzler1, A.M. Mahmoud2, J. Liu1, D. Lee1, S.J. Shiao1, C.J. Roberts1. 1Biomedical Engineering, 1Ophthalmology, College of Medicine, 1The Ohio State University, Columbus, OH. *CR

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


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

6797 — D961 Changes in Corneal Biomechanics after Descemet Stripping Endothelial Keratoplasty in Fuchs’ Dystrophy. Richard Y. Hwang1, B. Goldhagen1, A.N. Kuo2, N.A. Afshari1. 1Ophthalmology, Vanderbilt University, Nashville, TN; 2Ophthalmology, Duke University Eye Center, Durham, NC.

6798 — D962 Comparative Diagnostic Performance of Pentacam Scheimpflug Tomography and Ocular Response Analyzer Measurements for Subclinical Keratoconus. Mariannela Delrivo1, J.D. Galletti2, F. Fuentes Bonthoux1, T. Pförrner1, J.G. Galletti1. 1ECOS (Clinical Ocular Studies) Laboratory, Buenos Aires, Argentina; 2Ophthalmology, Hospital de Clinicas, University of Buenos Aires, Buenos Aires, Argentina.


6800 — D964 In Vivo Corneal Elasticity Changes After Collagen Cross-linking using Supersonic Shear Wave Imaging. David Touboul1, T. Nguyen1, J. Aubry1, J. Gennisson1, M. Tanter1, J. Bercoff1, J. Colín1. 1CHU de Bordeaux, Bordeaux, France; 1Institut Languin - espic, Paris, France; 1SuperSonic Imagine, Aix-en-Provence, France. *CR


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.


6804 — D968 To Evaluate The Efficacy Of Riboflavin As A Cyto-Protectant For Limbal Epithelial Cells Exposed To UV-A Radiation. Debashish Das1, D. Kamesh1A, S. Murali1A, E.L. Nebot1, F. Fuentes Bonthoux1. 1Second Branch IR&TC, St Petersburg, Russian Federation; 2Medical Sciences Program, Boston University, Boston, MA; 1Eye Bank, Boston, MA. *CR

6805 — D969 Implications of New Absorption and Fluorescence Measurements of Riboflavin for Corneal Cross-linking. Pavel Kamaev1A, R. Pertaub2, M. Friedman1A, D. Muller2. 1Research, 1Avedro, Waltham, MA. *CR

6806 — D970 Ultrasound-enhanced Penetration of Topical Riboflavin into the Corneal Stroma. Ricardo Lamb1, E. Chau1, H. Zhang2, V. Salganarkar3, C.J. Diederich4, J.M. Stewart4. 1Ophthalmology, 2Radiation/Oncology, 4University of California, San Francisco, San Francisco, CA.


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


6813 — D977 Rapid Collagen Photo-crosslinking method to Increase Cornea Mechanical Strength. Irene E. Kochevar1, D. Cherfar1, T.E. Gisel1, E.E. Verter1, R.W. Redmond2, S. Melki3. 1Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA; 2Medical Sciences Program, Boston University, Boston, MA; 3Boston Eye Group, Boston, MA. *CR


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

6817 — D981 Contralateral Eye Long-term Follow-up Of Prophylactic High-fluence Collagen Cross-linking Combined With Lasik For High Myopia. Kathy M. Treve, S.L. Wang, A.J. Kanellopoulos1, A. New York University School of Medicine, New York, NY; 2Laservision.gr Institute, Athens, Greece.
6819 — D982 Atypy, Floppy Eyelid Syndrome, Obstructive Sleep Apnea Syndrome, Eye Rubbing And Keratoconus. Ines Tran1, J. Harquel1, A. Sauer1, D. Gaucher1, C. Speeg-Schatz1, P. Bourgon2, T. Bourcier1, *Service d’Ophthalmologie, 1Service sommeil, 1CHU de Strasbourg, Strasbourg, France.


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


Hall B/C  D1153-D1196

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

Physiology & Pharmacology

557 Blood Flow

Moderator: Leopold Schmetterer

6823 — D1153 Coronary And Retinal Reactivity To Hyperoxia In Prediabetes And Type 2 Diabetes. Mary E. Lott1, B. Smith1, J.E. Slocomb1, V. Shirkumar1, K. Bettman3,1. 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 Arterioles 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. Petropoulos1, A-L. Martin1, G. Mangiortis1, E. Mendrinos1, P.C. Rimensberger1, C.J. Pournaras1, *Laboratory of Neurobiology and Physiology of the Retinal Circulation, Department of Ophthalmology, 1Department of Pediatrics, 1Geneva University Hospitals, Geneva, Switzerland.

Hall B/C  D1160-D1196

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

Physiology & Pharmacology

558 Blood Flow


6828 — D1158 Measurement of Retinal blood flow using dual beam bi-directional Fourier domain Doppler OCT - comparison with laser Doppler velocimetry. Rene M. Werkmeister1, N. Dragostinoff1, S. Palkovits1, R. Told1, L. Schmetterer2,1. *Med Physics and Biomed Eng, 1Clinical 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 Bolt1,2,4, D. Schmid1, M. Lasta1, S. Kaya4,1, S. Palkovits2, R. Told2, G. Fuchsänger-Mayrl1,4,1C, G. Garhöfer1, L. Schmetterer1,2,1B. *Department of Clinical Pharmacology, 1Medical University of Vienna, Vienna, Austria.

6830 — D1160 Evaluation of Ultrasound-Assisted Thrombolysis Using Nontargeted Ultrasound Contrast Agents in a Model of Retinal Vein Occlusion. Walid F. Abdallahi1,2, H. Patel1, E. Grant1, G.J. Chader1, M.S. Humayun1. *Ophthalmology, Doheny Eye Institute, Los Angeles, CA; 2Ophthalmology, Faculty of Medicine, Zagazig University, Zagazig, Egypt; 1Radiology, Keck School of Medicine, University of Southern California, Los Angeles, CA.

6831 — D1161 In Vivo Adaptive Optics Imaging Of Retinal Pericytes And Capillary Blood Velocity In Mice. Jesse B. Schalleck1, Y. Geng1,2, D.R. Williams1,3,1C. *Center for Visual Science, 1The Institute of Optics, 1Flaum Eye Institute, 2University of Rochester, Rochester, NY.

6832 — D1162 Changes in Choroidal and Optic Nerve Head Blood Flow Regulation During an Experimental Increase in Ocular Perfusion Pressure. Doreen Schmidt1,2, A. Boltz1,2,4, S. Kaya4,1, R.M. Werkmeister1, N. Dragostinoff1, M. Lasta1, E. Polski1, G. Garhöfer1, L. Schmetterer1,2,1B. *Department of Clinical Pharmacology, 1Center for Medical Physics and Biomedical Engineering, 1Department of Ophthalmology and Optometry, 1Medical University of Vienna, Vienna, Austria.

6833 — D1163 Retinal Blood Flow In Healthy Young Subjects. Gerhard Garhöfer1, R.M. Werkmeister1, N. Dragostinoff1, L. Schmetterer1,2,1B. *Department of Clinical Pharmacology, 1Biomed Engineering & Physics, 1Medical University of Vienna, Vienna, Austria.

6834 — D1164 Hemodynamic and Microcirculatory Response to Acute Hypotension in Rabbis. Bruce I. Gaynes1, P-Y. Teng1, J.M. Waneck1, M. Shahidi1. *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 Ker goat, C. Dutrisac, J.A. Lova sak. 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 Palkovits1, M. Lasta1, R. Told1, G. Garhöfer1, L. Schmetterer1,2,1B. *Clinical Pharmacology, 1Center for Medical Physics and Biomedical Engineering, 1Medical University of Vienna, Vienna, Austria.


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. Annan1, M.A. Ibrahim1, L. Luei1, Y.J. Sepah1, M.G. Bittencourt1, A. Ogbedia1, H.S. Jang1, J. Yohannan1, J. Ramella-Roman1, Q.D. Nguyen1. 1Johns Hopkins University, Wilmer Eye Institute, Baltimore, MD; 1Biomedical Engineering, Catholic University of America, Washington, DC; 1Diseases 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. Kergoat2, M. Parent1, M.G. Quigley1. *School of Optometry, University of Montreal, Montreal, QC, Canada; 1Department 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.E. Burgess2, G.A. Cioffi2, L. Wang1. 1Optic Nerve Head Research Lab, 1Ophthalmal-Discoveries in Sight, 1Devers Eye Institute, Portland, OR; 2Devers Eye Institute, Legacy Health, Portland, OR; 1Devers Eye Institute, Legacy Research Institute, Portland, OR. *CR
6867 – 6884 – Thursday – Posters

Hall B/C  D1197-D1214

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

558 Tumors: New Drugs, Delivery Systems and Mechanisms of Action

Moderators: Martine J Jager and David H Abramson

6867 — D1197  Intra-arterial Chemotherapy for the Management of Retinoblastoma in Eyes with Extensive (>50%) Retinal Detachment. Sotiria Palioura1,2, Y. Gohin1, S.E. Brodie1,4, I. Dunkel1, B. Marr1, D. Abramson1. 1Ophthalmic Oncology Service, Memorial Sloan-Kettering Cancer Center, New York, NY; 2Currently, Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, New York, NY; 3Division of Interventional Neuroradiology, Departments of Radiology, Neurosurgery and Neurology, Weill Cornell Medical College, New York Presbyterian Hospital, New York, NY; 4Department of Ophthalmology, Mount Sinai School of Medicine, New York, NY; 5Department of Pediatrics, Memorial Sloan-Kettering Cancer Center, New York, NY.

6868 — D1198  Effects Of Zeaxanthin On Intraocular Tumor Viability Of Cultured Human Uveal Melanoma Cells And Normal Ocular Cells In Vitro. Dan-Ning Hu1,2, R.B. Rosen1, M. Chen1,2, S. A. McCormick1, L. Wang2, H. Zhang2, R. Jia1, H. Wang2, X. Zhao1,2, G. Koseinennkinn Hospital, Osaka, Japan; 2Department of Ophthalmology, Osaka University, Osaka, Japan; 3Department of Ophthalmology, Osaka Koseineninkin Hospital, Osaka, Japan.


6883 — D1213  Expression Of N-glycolyl Gm3 In Retinoblastoma, A Promising Candidate For Targeted Therapies. Ana Vanesa Toribido, A. Scorsoni, S. Camarero, C. Sampor, G. Chantada, R. Dunphy2B, M. Daly2A,1, D. Siracus-Leo1A,4,1. Ophthalmology, Boston Medical Center / Boston University School of Medicine, Boston, MA; 2Ophthalmology, Department of Ophthalmology, Veterans Affairs Boston Healthcare System, Boston, MA.

6884 — D1214  Sulindac Protects RPE Cells Against Oxidative Damage but Enhances the Killing of Retinoblastoma Cells Exposed to Oxidative Stress. Arunoday Sur1, A.M. Prentice1B, H. Weissbach1, J.C. Blank1B. Integrative Biology PhD Program, Dept of Biology, 2Charles E Schmid College of Medicine, 3Center for Complex Systems & Brain Sci, Florida Atlantic University, Boca Raton, FL; 4Center For Cellular and Molecular Biology, Florida Atlantic University, Jupiter, FL.

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

559 AMD/Retinal Degeneration Models

Moderators: Martin-Paul G Agbagha and William A Beltran


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


6885 — 1:15 Cell Death in rd2/rd3 Retina: An Apoptotic Process? François Paquet-Durand, S. Bernhard-Kurz, B. Arango-Gonzalez, E. Zunser, M. Ueffing. †Experimental Ophthalmology, Institute for Ophthalmic Research, Tuebingen, Germany; †Experimental Ophthalmology, ‡Institute for Ophthalmic Research, ‡Centre for Ophthalmology, Tuebingen, Germany; †Institute for Ophthalmic Research, University Eye Hospital, Tuebingen, Germany.

7891 — 2:45 Cell Death in rd2/rd3 Retina: An Apoptotic Process? François Paquet-Durand, S. Bernhard-Kurz, B. Arango-Gonzalez, E. Zunser, M. Ueffing. †Experimental Ophthalmology, Institute for Ophthalmic Research, Tuebingen, Germany; †Experimental Ophthalmology, ‡Institute for Ophthalmic Research, ‡Centre for Ophthalmology, Tuebingen, Germany; †Institute for Ophthalmic Research, University Eye Hospital, Tuebingen, Germany.

Thursday – Papers – 6885 – 6901

6891 — 2:45 Cell Death in rd2/rd3 Retina: An Apoptotic Process? François Paquet-Durand, S. Bernhard-Kurz, B. Arango-Gonzalez, E. Zunser, M. Ueffing. †Experimental Ophthalmology, Institute for Ophthalmic Research, Tuebingen, Germany; †Experimental Ophthalmology, ‡Institute for Ophthalmic Research, ‡Centre for Ophthalmology, Tuebingen, Germany; †Institute for Ophthalmic Research, University Eye Hospital, Tuebingen, Germany.


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

561 Inflammatory Tissue Damage and Immunoregulation

Moderators: Justine R Smith and Henry J Kaplan

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

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

6901 — 1:45 Ifn-γ Is Critical For Disease Pathogenesis In A Spontaneous Mouse Model Of Autoimmune Uveitis. Jun Chen, R. Horai, P. Silver, C-C. Chan, R. Caspi. Lab of Immunology, National Eye Inst/NIH, Bethesda, MD.

*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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Thursday – Papers – 6885 – 6901

1:15 pm – 3:00 pm
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 Upadhya, L. Reneker. Ophthalmology, Mason Eye Institute, Columbia, MO.

6908 — 1:45  Genome-wide Identification Of Genes And MicroRNAs Regulated By Fgf2 During In Vitro Lens Fiber Cell Differentiation. Louise V. Wolf1, C.C. Gaar1, K. Gueta2, N. Podduturi3, P.S. Zelenka2, R. Ashery-Padan4, J. Zavald1, A. Cvekl1. Ophthalmology & Visual Sciences and Genetics, Albert Einstein College of Medicine, Bronx, NY; 1LMBDB, NEI, Bethesda, MD; 2Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel; 3Langone Center, NYU, New York, NY.

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 Tikidi-j-Hamburan, 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 Bader1, P. Berens2, M. Bethge2, 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. Smith3. 1Department of Biomedical Sciences, Colorado State University, Fort Collins, CO; 2Casey Eye Institute, Ophthalmology, Oregon Health Sciences University, Portland, OR; 3Dept of Neuroscience, University of Pennsylvania, Philadelphia, PA.


6918 — 2:30  Developmental Characterization Of NMBA Receptor Expression In Identified Retinal Ganglion Cells Of The Mouse Retina. Ben Stafford1, K.Y. Wong1, J.B. Demb2. Ophthalmology and Visual Sciences, University of Michigan, Ann Arbor, MI; 2Ophthalmology & Visual Sciences, Yale University, New Haven, CT.


Palm A

Thursday, May 10, 2012, 1:15 PM-3:00 PM
Anatomy & Pathology
564 Myopia IV: Clinics

Moderators: Thomas T Norton and Jane E Gwiazda

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

6921 — 1:30  Choroidal thickness associated with spherical equivalent in healthy young adults: The Raine Eye Health Study. Alexander X. Tan1, H. Forward1, C. McKnight4, S. Yazair4, C. Pennell2, J. Mountain1, T.L. Young2, A.W. Hewitt3, D.A. Mackey1, F.K. Chen1. 1Lions Eye Institute, *Telethon Institute for Child Health Research, 2University of Western Australia, Perth, Australia; 3Ophthalmology, Duke University Eye Center, Durham, NC; 4Department of Ophthalmology, Centre for Eye Research Australia, Surrey Hills, Australia.
6922 — 1:45 Pathological Myopia: A New Perspective on Tilted Discs Using Spectral Domain-Enhanced Depth Imaging Optical Coherence Tomography. Danielle S. Strauss1, K. Makkamala1, R.F. Spaida2, L. Yannuzzi3
1Department of Ophthalmology, New York University Medical Center, New York, NY; 2Ophthalmology, Vitreous Retina Macula Consultants of New York, New York, NY; 3Department of Ophthalmology, Vitreous Retina Macula Consultants of New York, New York, NY.

6923 — 2:00 Central and Peripheral Outer Nuclear Layer Thickness Differences between Myopes and Hyperopes/Emmetropes using Spectral Domain Optical Coherence Tomography. Christopher A. Clark1, A.E. Elsner2, T.Y. 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. Chiosi3, Miyake1, K. Yamashiro1, H. Nakanishi1, H. gene6925
2Department of Ophthalmology, New York University Medical Center, New York, NY; 3Department of Ophthalmology, Vitreous Retina Macula Consultants of New York, New York, NY; 4Department of Ophthalmology, Vitreous Retina Macula Consultants of New York, New York, NY.

6925 — 2:30 Peripheral 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. Nakashin1, H. Hayashi1, I. Nakata1, Y. Akagi-Kuraszhe1, A. Tsujikawa1, K. Ohno-Matsui1, M. Mochizuki1, N. Yoshimura1
1Department of Ophthalmology, Kyoto University Graduate School of Medicine, Kyoto, Japan; 2Department of Ophthalmology, Tokyo Medical and Dental University Graduate School of Medicine, Bunkyo-Ku, Japan.

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

Moderators: Frank G Holz and Edoardo Miden

1Ophthalmology, University of Cape Town, Cape Town, South Africa; 2Ophthalmology, Haukeland University Hospital, Bergen, Norway; 3Department of Ophthalmology, University of Bergen, Bergen, Norway; 4Department of Ophthalmology, University of Bergen, Bergen, Norway; 5Department of Ophthalmology, University of Bergen, Bergen, Norway; 6Department of Ophthalmology, University of Bergen, Bergen, Norway; 7Department of Ophthalmology, University of Bergen, Bergen, Norway; 8Department of Ophthalmology, University of Bergen, Bergen, Norway.

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 Osnishein1, M. Goldstein1, M. Waisbourd1, A. Elsner2, L. Yannuzzi3
1Department of Ophthalmology, Tel Aviv Eye Hospital, Tel Aviv, Israel; 2Ophthalmology, Tel-Aviv Medical Center, Tel Aviv, Israel; 3Ophthalmology, Tel-Aviv Medical Center, Tel-Aviv, Israel.

1Ophthalmology, University of Bonn, Bonn, Germany; 2Ophthalmology, Nagoya City University Graduate School of Medicine, Nagoya, Japan; 3Ophthalmology, University of Tokyo, Tokyo, Japan; 4Service d’Ophtalmologie, Hopital Pellegrin, Bordeaux, France; 5Global Clinical Development, Bayer HealthCare AG, Berlin, Germany; 6Infectious diseases, National Institute of Allergy and Infectious Diseases, National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD.

6930 — 2:00 Macular Edema After Uneventful Phacoemulsification Detected By Ocular Coherence Tomography (OCT). Luiz Felipe Q. Silveira1, G.A. Pellegrini2, M. Harasawa3, G.A. Carlos1, J.C. Souza1, T. Leite1, G.S. Pierozzi1, A.F. Bordon1
1Retina, Hospital Oftalmologico de Sorocaba, Sorocaba, Brazil; 2Hospital Oftalmologico de Sorocaba, Indaiatuba, Brazil; 3Hospital Oftalmologico de Sorocaba, Sorocaba, Brazil; 4Ophthalmology UNIFESP-EPM, Federal Univ of Sao Paulo, Sao Paulo, Brazil.

1Ophthalmology, Human Genetics, Radboud University Nijmegen Medical Center, Nijmegen, The Netherlands; 2Department of Ophthalmology, Johns Hopkins Wilmer Eye Inst, Baltimore, MD; 3Kongwa Trachoma Project, Kongwa, Tanzania, United Republic of; 4Department of Infectious Diseases, Johns Hopkins University, Baltimore, MD; 5National Institute of Allergy and Infectious diseases, National Institute of Allergy and Infectious diseases, NIH, Bethesda, MD.

6932 — 2:30 Incidence Of Macular Edema (ME) In Fingolimod (FTY720) Multiple Sclerosis (MS) Clinical Program. Marco A. Zarbin1, A. Reder1, W. Collins1, G. Francis1, X. Zhang2, Y.L. Kappos3, J. Cohent4
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. Zouar1, M. Barbeau1, E. Hemsley3, R. Li4, Ophthalmology, Ivey Eye Institute, London, ON, Canada; 2OptumInsight, Burlington, ON, Canada; 3Novartis Pharmaceuticals Canada Inc, Montreal, QC, Canada.

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

Moderators: Astrid E Fletcher and Vaping Jin

6934 — 1:15 Socioeconomic Disparity in Access to Eye Care Services among U.S. Adults with Age-related Eye Diseases Emerging during 2002 and 2008. Xiuhe Zhang1, P. Nair2, G. Beckles1, C.F. Chou3, L. Geis1, A. Ryskulova1, J. Saddique1, 2Vision Health Initiative, CDC, Atlanta, GA; 3Division of Diabetes Translation, CDC/Ginn Group Inc, Atlanta, GA; 4CDC, Hyattsville, MD.

6935 — 1:30 Affordability of Cataract Surgery using the Big Mac Index. Jan C. Lansingh1, M.J. Carter1, K.L. Windrop1, J.M. Furtado1
1Agency for the Prevention of Blindness/VISION 2020, Weston, FL; 2Strategic Solutions, Inc, Cody, WY; 3Casey Eye Institute, Portland, OR; 4Casey Eye Institute, Oregon Health & Science Univ, Portland, OR.

6936 — 1:45 After Multiple Rounds of Mass Drug Administration for Trachoma, are there only “Trachoma families” left? Sheila K. West1, B.E. Munoz1,2, B.E. Munoz1, G. Beckles1, A. Ryskulova1, J. Saddique1, 2Vision Health Initiative, CDC, Atlanta, GA; 3Division of Diabetes Translation, CDC/Ginn Group Inc, Atlanta, GA; 4CDC, Hyattsville, MD.
6937 — 2:00 Characteristic of Patients Presenting to the Emergency Department with Sight-Threatening Ocular Conditions. Dolly A. Fadovani-Claudio, N. Taiwar, P.P. Lee, J.D. Stein. Ophthalmology & Visual Sciences, Kellogg Eye Center, Ann Arbor, MI.

6938 — 2:15 Prevalence of Functional Low Vision and Need for Annualized Eye Evaluation in Adult Malays and Indians Living in Singapore. Tingfeng Zheng1,2, C-Y. Cheng3, E.L. Lamoureux, III1, P. Chiang1, A. Anuar4, T. Aung5, S-M. Saw6, T.Y. Wong7. Singapore Eye Research Institute, Singapore National Eye Centre, Singapore, Singapore; 1State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University, Guangzhou, China; 2Department of Ophthalmology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore; 3Ophthalmology, University of Melbourne, Australia; 4University of Malaya, Kuala Lumpur, Malaysia; 5Saw Swee Hock School of Public Health, National University of Singapore, Singapore, Singapore; 6Centre for Eye Research Australia, University of Melbourne, Australia.


6940 — 2:45 Lack Of Government-insured Annual Eye Examinations Increases The Risk Of Vision Problems Amongst Low-income Elderly. Yaping Jin1, Y.M. Buyt1, J. Xiong2, G.E. Trope1. 1Ophthalmology & Vision Sciences, University of Toronto, Toronto, ON, Canada; 2University of Waterloo, Waterloo, ON, Canada; 3Ophthalm/Ltda Toronto Western Hosp, University Toronto, Toronto, ON, Canada.

6941 — 1:15 Increased Immune Response Against Ocular Tissue After Immunization With An Optic Nerve Antigen. Stephanie C. Joachim1, O.W. Gramlich1, P. Laspas2, S. Kuehn1, 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 Neuropathology, Mainz, Germany.


6943 — 1:45 Dark-phase Intraocular Pressure Elevation and Retinal Ganglion Cell Loss in Experimental Glaucoma. Jacky Man Kwong Kwong1, N. Yoo2, A. Quan1, H. Kyung 3, N. Piri1, J. Caprioli1. 1Ophthalmology, Jules Stein Eye Institute, UCLA, Los Angeles, CA.

6944 — 2:00 Overstimulation of TRPV4 in vivo Induces Selective Apoptosis of Retinal Ganglion Cells. An Acute in vivo Experimental Model for Glaucoma. Annette Man Kwong Kwong1, D. Ryskamp2, S. Kusnyerik1, H. Sachs1, K. Stingl1. 1Institute for Ophthalmic Research, Centre for Ophthalmology, Mainz, Germany; 2Retina Implant AG, Reutlingen, Germany; 3Mobility Training, Tuebingen, Germany; 4Senemveis University, Budapest, Hungary; 5Städtisches Klinikum Dresden-Friedrichstadt, Dresden, Germany. *CR

6945 — 2:15 Anti-Connective Tissue Growth Factor Antibody Therapy Combats Expression of Fibrotic Genes in Glaucoma. Deborah M. Wallace1,2, A.F.Clark3, N. Oliver4, J.K. Cream4, C.J. O’Brien4. 1School Medicine & Medical Science, 2School of Biomolecular & Biomedical Science, University College Dublin, Dublin, Ireland; 3Dept. Of Ophthalmology, Mater Misericordiae Universit University Hospital, Dublin, Ireland; 4Cell Biology & Anatomy, University of North Texas HSC, Fort Worth, TX; 5Fibrogen Inc, San Francisco, CA; 6Ophthalmology, Mater Misericordiae Univ Hospital, Dublin, Ireland; 7School of Medicine and Medical Science, University College Dublin, Ireland. *CR

6946 — 2:30 Crossed Linked Actin Networks are Formed in Human Trabecular Meshwork Cells after treatment with Latrunculin B. Paul Russell1,2, K. Murphy1, J.A. Wood1, C.T. McKee3,4, C.J. Murphy3,4. 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. Shek2, N.J. Van Bergen1, S. Lee1, V. Chrysostomou1, A.L. Vincent1, I.A. Tracey1. 1Department of Ophthalmology, Glaucoma Research Unit, Centre for Eye Research Australia, East Melbourne, Australia; 2Ophthalmology, University of Auckland, Auckland, New Zealand; 3Glaucoma Research Unit, Centre for Eye Research Australia, Melbourne, Australia; 4University of Melbourne, Centre for Eye Research Australia, Melbourne, Australia.

Grand D
Thursday, May 10, 2012, 1:15 PM-3:00 PM
Glaucome / Anatomy & Pathology

6948 — 1:15 Seeing With Subretinal Electronic Implants: Study in Ten Patients With Wireless Implant Alpha-IMS. Eberhart Zrenner1, K-U. Bartz-Schmidt1, F. Gekeler1, U. Greppmaier1, S. Hipp1, G. Hoerdtrofer1, C. Kernstock1, A. Kusnyerik1, H. Sachs1, K. Stingl1. 1Institute for Ophthalmic Research, Centre for Ophthalmology, Tuebingen, Germany; 2Retina Implant AG, Reutlingen, Germany; 3Mobility Training, Tuebingen, Germany; 4Senemveis 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. Falloni2, G. Rathbone1, C.E. Williams1. 1Bionics Institute/Latrobe University, East Melbourne, Australia; 2Bionics Institute, East Melbourne, Australia.

6950 — 1:45 Low Contrast Trip Hazard Avoidance using Simulated Prosthetic Vision. Chris McCarthy1, P. Lieby2, J.G. Walker1, A.F. Scott1, V. Boote1, 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 Georgi1, D. Ivastinovic1, M. Brandner1, R. Hornig1, M. Velkay-Parcel1. 1Ophthalmology, Medical University of Graz, Graz, Austria; 2IM Intelligent Medical Implants GmbH, Bonn, Germany.
Patients blinded by outer retinal dystrophies are able to perceive simultaneous colors using the Argus II Retinal Prosthesis System.

Paulo E. Stanga1,2, J.A. Sahel, Jr., L. da Cruz3, F. Hafezi4, F. Merlini5, B. Coley6, R.J. Greenberg7, Argus II Study Group. 1Manchester Royal Eye Hospital and University of Manchester, Manchester, United Kingdom; 2Manchester Biomedical Research Centre, Manchester, United Kingdom; 3UMR S 968, Institut de la Vision, Paris, France; 4Moorfields Eye Hospital, London, United Kingdom; 5Ophthalmology, Geneva University Hospitals, Geneva, Switzerland; 6Second Sight Medical Products (Switzerland), Lausanne, Switzerland; 7Second Sight Medical Products, Inc, Sylmar, CA. *CR

Results Update from Second Sight’s Argus II Retinal Prosthesis Study.

Mark S. Humayun1, L. da Cruz2, G. Dagnelie3, J-A. Sahel4, P.E. Stanga5, E. Filley6, D. Elliott7, 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

An Eye-surface Conformable Retinal Prosthesis using Liquid Crystal Polymers.

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