

2010 *Scientific Program*

Thursday, Friday and Saturday

February 25 – 27, 2010
Tucson, Arizona

**The eight minutes allotted time for each
presentation includes 6 minutes presentaion
and 2 minutes of time for discussion
and audience polling**

THURSDAY, FEBRUARY 25, 2010

SESSION I

Diabetes I

7:25 a.m. Introduction and dedication to W. Richard Green
Jerry Shields

Chair: Susan Bressler

Moderator: Lloyd Aiello

7:30 a.m. Comparison of Film and Digital Fundus Photographs in Diabetic Retinopathy
Michael Ip

7:38 a.m. Decreased SHP-1 Expression Correlates with Protection from Diabetic Retinopathy Despite Poor Glycemic Control and Extreme Duration Diabetes
Lloyd Aiello

7:46 a.m. Ischemic Diabetic Retinopathy Protects against Nuclear Sclerotic Cataract
Nancy Holekamp

7:54 a.m. Observational Study of Subclinical Diabetic Macular Edema
Susan Bressler

8:02 a.m. Pooled Analysis of the Relationship of OCT-Measured Central Retinal Thickness with Visual Acuity and Level of Diabetic Retinopathy in DRCR Network Studies
Michael Elman

8:10 a.m. Impact of Antiangiogenic Therapy on Intraretinal Exudates in Diabetic Macular Edema (DME)
Ursula Schmidt-Erfurth

8:18 a.m. Fluocinolone Acetonide Intravitreal Insert (Iluvien®) for Diabetic Macular Edema—Results of the Phase 3 Randomized Controlled Trial
David Brown

8:26 a.m. Triple Therapy (Combined Subtenon Triamcinolone, Intravitreal Bevacizumab and Laser Photocoagulation) for Refractory Diabetic Macular Edema: One-Year Results
Dennis Lam

8:34 a.m. Open-Label Phase 2 Study of Dexamethasone Intravitreal Implant for Treatment of Diabetic Macular Edema (DME) in Vitrectomized Patients: Interim Results
David Boyer

8:42 a.m. **Discussion**

SESSION II
AMD I

Chair: Johanna Seddon

Moderator: Jason Slakter

- 8:47 a.m. Prediction Models and New Genetic Pathways for Age-Related Macular Degeneration
Johanna Seddon
- 8:55 a.m. Computational Discovery of Genetically Controlled AMD Phenotypes
Michael Abramoff
- 9:03 a.m. Influence of Genotype on Clinical Features of AMD
Gisele Soubrane
- 9:11 a.m. Effect Modifiers of Progression to Advanced AMD Using the Age-Related Eye Disease Study (AREDS) Simple Scale
Emily Chew
- 9:19 a.m. Effect of Pattern of Geographic Atrophy from AMD on Enlargement Rate
Janet Sunness
- 9:27 a.m. Prevalence and Significance of Subretinal Drusenoid Deposits (Reticular Pseudodrusen) in Age-Related Macular Degeneration
Richard Spaide
- 9:35 a.m. Not all Drusen are Created Equal
Anita Agarwal
- 9:43 a.m. A Novel SD-OCT Algorithm for the Quantification of Drusen Area and Volume
Philip Rosenfeld
- 9:51 a.m. Biomarkers and New Therapeutic Approaches in Age-Related Macular Degeneration
Jason Slakter
- 9:59 a.m. The Complement System in AMD: Pathogenic Insights and the Rationale for Anti-Factor D in Geographic Atrophy
Dante Pieramici
- 10:07 a.m. Targeting Complement Factor 5 in Geographic Atrophy in Dry Age-Related Macular Degeneration – A Phase 1 Study
Jordi Mones
- 10:15 a.m. Effects of Vitrectomy on Age-Related Macular Degeneration
James Folk
- 10:23 a.m. **Break**

SESSION III

AMD II

Chair: Thomas Ciulla

Moderator: Barry Kuppermann

- 10:40 a.m. Patient-Reported Outcomes from Sham vs. No-Treatment Controls from Randomized Trials
Barbara Hawkins
- 10:48 a.m. Associations between Aspirin Use and AMD
Paulus de Jong
- 10:56 a.m. Retinal “Scavenger” Cysts in Anti-VEGF Treated Exudative Age-Related Macular Degeneration: A Spectral Domain OCT Study
Martine Mauget-Faysse
- 11:04 a.m. Intraocular Pressure in Eyes Receiving Monthly Ranibizumab: Analysis of Data from the MARINA and ANCHOR Trials
Sophie Bakri
- 11:12 a.m. Ranibizumab (Lucentis®) for Neovascular Age-Related Macular Degeneration (AMD): 2-Year Results for Fellow Eyes with Neovascular AMD in MARINA and ANCHOR Trials
Thomas Ciulla
- 11:20 a.m. Ranibizumab Treatment of Phakic vs. Pseudophakic Eyes with Macular Degeneration: A Meta-Analysis of 2 Pivotal Trials
David Weinberg
- 11:28 a.m. Visual and Anatomic Outcomes of Intravitreal Anti-VEGF Therapy for Exudative Age-Related Macular Degeneration with Significant Epiretinal Membrane
Nauman Chaudbry
- 11:36 a.m. Inject and Extend vs. PRN: A Comparative Retrospective Study of Ranibizumab in Exudative Age-Related Macular Degeneration
Salomon Cohen
- 11:44 a.m. Visual Acuity Loss Associated with Extended Dosing Regimens of Ranibizumab and Bevacizumab for Neovascular Macular Degeneration
John Thompson
- 11:52 a.m. Safety and Efficacy of OZURDEX (Dexamethasone Intravitreal Implant) as Adjunctive Therapy to Lucentis® in Patients with Choroidal Neovascularization (CNV) Secondary to Age-Related Macular Degeneration (AMD)
Baruch Kuppermann
- 12:00 p.m. **Discussion**

- 12:05 p.m. **Presentation of the Arnall Patz Medal Award**
Recipient: Lawrence A. Yannuzzi, MD
Presenter: Kurt A. Gitter, MD, MD
- 12:13 p.m. **Paul Henkind Memorial Lecture and Award Presentation**
Recipient: Anthony P. Adamis, MD
Presenter: Evangelos S. Gragoudas, MD
- 12:37 p.m. **Session Ends**

FRIDAY, FEBRUARY 26, 2010

Business Meeting

- 7:00 a.m. Macula Society Members Only

SESSION IV

Basic Science, Degenerations, and Stem Cells

Chair: Jose Pulido

Moderator: Andrew Lotery

- 7:30 a.m. Effect of HDAC Inhibitors on Retinal Cells
Shalesh Kaushal
- 7:38 a.m. Lentiviral PDE6 β Combined with shRNA-Mediated Targeting of Cyclic Nucleotide Gated Channel Alpha 1 Results in an Increase of Photoreceptor Survival in a cGMP Phosphodiesterase Mouse Mutant Model of Retinitis Pigmentosa
Stephen Tsang
- 7:46 a.m. Generation of Light-Sensitive Photoreceptor Phenotypes by Genetic Modification of Human Adult Ocular Stem Cells Using CRX
Andrew Lotery
- 7:54 a.m. Estimating the Pathogenic Contribution of Specific ABCA4 Disease Alleles
Edwin Stone
- 8:02 a.m. A Phase 1 Open-Label, Non-Comparative Study Evaluating the Safety of a Single, Unilateral Subretinal Administration of CNTO2476 (Human umbilical tissue-derived cells [hUTC]) in Advanced Retinitis Pigmentosa (RP)
Peter Francis
- 8:10 a.m. Novel Mutations and Electrophysiological Findings in RGS9 and R9AP Associated Retinal Dysfunction (“Bradyopsia”)
Graham Holder

- 8:18 a.m. A Novel Mutation of LAMB2 Results in Retinal Disease and Diffuse Mesangial Proliferative Glomerulonephritis: A New Variant of Pierson Syndrome
Jose Pulido
- 8:26 a.m. Retinal Pathology Linked to Nephropathy in Alport Syndrome
Paul Bernstein
- 8:34 a.m. Hydroxychloroquine Toxicity: New Estimates of Risk from a Large National Database
Michael Marmor

SESSION V

Inflammation/Infections/CSR

Chair: John Heckenlively

Moderator: Emmet Cunningham

- 8:42 a.m. Neuroimmune Modulatory Gene Profiling of Retinal and RPE Gene Expression after Intravitreal Steroid Injections in Mice
Lawrence Morse
- 8:50 a.m. Investigations of Pathologic Mechanisms in Autoimmune Retinopathy
John Heckenlively
- 8:58 a.m. The Expanded Clinical Spectrum of Acute Exudative Polymorphous Vitelliform Maculopathy
Lawrence Yannuzzi
- 9:06 a.m. Immunosuppression after Fluocinolone Acetonide Implant at a Tertiary Care Center
James Puklin
- 9:14 a.m. Prophylactic Anecortave Acetate in Patients with a Retisert Implant
David Callanan
- 9:22 a.m. Intravitreal Bevacizumab versus Photodynamic Therapy for the Treatment of Subfoveal Choroidal Neovascularization Secondary to Multifocal Choroiditis
Francesco Bandello
- 9:30 a.m. Causes of Vision Loss in a Large Cohort with Ocular Toxoplasmosis
Emmett Cunningham, Jr.
- 9:38 a.m. The Incidence of Neonatal Endophthalmitis in the United States May Be Declining
Andrew Moshfeghi

- 9:46 a.m. Long-Term Outcome of Half Dose Verteporfin Photodynamic Therapy for the Treatment of Central Serous Chorioretinopathy
Timothy Lai
- 9:54 a.m. PDT Low-Dose, Low-Fluence Rate for Chronic Central Serous Chorioretinopathy
Francesco Boscia
- 10:02 a.m. **Young Investigator Lecture and Award Presentation**
Recipient: Timothy W. Olsen, MD
Presenter: Emily Y. Chew, MD
- 10:26 a.m. **Break**

SESSION VI

Tumors

Chair: Evan Gragoudas

Moderator: Jerry Shields

- 10:38 a.m. Hypoxic Modulation Increases Tumor Burden in Retinoblastoma: Evaluation of Periocular Delivery of 2-Deoxy-d-Glucose Alone and as an Adjuvant to Chemotherapy for Treatment of Advanced Retinoblastoma
Timothy Murray
- 10:46 a.m. Direct Ophthalmic Artery Chemotherapy for RB
David Abramson
- 10:54 a.m. Enhanced Depth Imaging (OCT) of Choroidal Tumors
Arun Singh
- 11:02 a.m. Prognosis of Uveal Melanoma in 500 Consecutive Cases Using Genetic Testing of Fine Needle Aspiration Biopsy Specimens
Carol Shields
- 11:10 a.m. Clinical Outcomes in Patients with Large Uveal Melanomas (Ineligible for the COMS Trial) Treated with Proton Therapy
Evangelos Gragoudas
- 11:18 a.m. Changing Concepts Regarding Management of Orbital Extension of Uveal Melanoma
Jerry Shields
- 11:26 a.m. **Presentation of the J. Donald M. Gass Medal**
Recipient: Alexander J. Brucker, MD
Presenter: Lawrence J. Singerman, MD
- 11:34 a.m. **Presentation of Green Lecture and Award**
Recipient: Ralph C. Eagle, Jr., MD
Presenter: Jerry A. Shields, MD

Session VII
Retinal Vascular Diseases

Chair: Neil Bressler

Moderator: Anat Loewenstein

- 11:58 a.m. Efficacy and Safety from the BRAVO and CRUISE Trials
Robert Avery
- 12:06 p.m. Vision-Related Patient-Reported Outcomes in BRAVO and CRUISE
Neil Bressler
- 12:14 p.m. 12-Month Evaluation of an Applicator-Delivered Dexamethasone Intravitreal Implant in Patients with Macular Edema due to Branch or Central Retinal Vein Occlusion
Anat Loewenstein
- 12:22 p.m. Progress of the MacTel Project
Mark Gillies
- 12:30 p.m. Pharmacokinetic Study of Vitreous and Serum Concentrations of Triamcinolone Acetonide after Posterior Sub-Tenon's Injection
Jorge Arroyo
- 12:38 p.m. An Alternative Combination Therapy for the Treatment of Congenital Optic Disc Pit Maculopathy
Shibo Tang
- 12:46 p.m. Intravitreal Bevacizumab for Subfoveal Choroidal Neovascularization Associated with Pattern Dystrophy
Maurizio Parodi
- 12:54 p.m. Lamellar Structure of the Vitreous Cortex and Perifoveal Vitreous Detachment in Eyes of Normal Older Individuals
Shoji Kishi

Session VIII
Ocular Imaging

- 1:02 p.m. High Resolution Imaging of the Photoreceptor Layer in the Epiretinal Membrane Using Adaptive Optics Scanning Laser Ophthalmoscopy
Nagahisa Yoshimura
- 1:10 p.m. Subfoveal Choroidal Thickness Following Treatment of Central Serous Chorioretinopathy
Tomohiro Iida

- 1:18 p.m. Resveratrol Regulates Ocular Neovascularization by a Sirt1 Independent and Eukaryotic Elongation Factor-2 Kinase Dependent Pathway
Rajendra Apte
- 1:26 p.m. **Session Ends**

SATURDAY, FEBRUARY 27, 2010

SESSION IX Structure and Imaging

Chair: William Mieler

Moderator: Mark Johnson

- 8:00 a.m. Absolute Autofluorescence (AbsAF) Measurements
Theodore Smith
- 8:08 a.m. En Face Visualization and Quantification of Photoreceptor Inner/Outer Segment Junction Using Cirrus Spectral Domain Optical Coherence Tomography and Association with Visual Acuity
William Mieler
- 8:16 a.m. Spectral Domain OCT Imaging of Sickle Cell Anemia Patients
Jennifer Lim
- 8:24 a.m. Adult-Onset Vitelliform Detachment: Correlation of Clinical Findings and Multiple Imaging Analyses
K. Freund
- 8:32 a.m. The Diversity of Traction Mechanisms in Myopic Traction Maculopathy
Mark Johnson
- 8:40 a.m. Clinical and OCT Outcomes of Macular Hole Surgery
Christina Flaxel
- 8:48 a.m. Automated Classification of Bright Lesion Based on Shape: AMD Versus Stargardt's Disease
Stephen Russell
- 8:56 a.m. Decreasing Retinal Photocoagulation Damage: Principles and Technology
Martin Mainster

Session X
Michaelson Symposium

- 9:04 a.m. Introduction
*Lawrence J. Singerman, Executive Secretary and
Dr. Daniel P. Michaelson*
- 9:14 a.m. The Very Basics of VEGF
Eli Keshet
- 9:29 a.m. VEGF in Ophthalmology
Anthony Adamis
- 9:44 a.m. **Presentation of Inaugural Michaelson Macula Society Recipient**
*Recipient: Napoleone Ferrara, MD
Presenter: Anthony P. Adamis, MD*
- 9:49 a.m. Therapeutic Targets for Treating Intraocular Neovascular Diseases, VEGF and Beyond
Napoleone Ferrara
- 10:19 a.m. **Discussion**

Session XI
AMD III

Chair: Marco Zarbin

Moderator: Elias Reichel

- 10:27 a.m. Mitogen-Activated Protein Kinase Phosphatase Reduction in AMD
Jayakrishna Ambati
- 10:35 a.m. Improved Cell Survival on Aged and AMD Submacular Bruch's Membrane following Culture in Conditioned Media
Marco Zarbin
- 10:43 a.m. Fluorescein Angiographic Findings in PEARL Study of Ranibizumab Therapy for PCV — Importance of ICG Angiography Due to Therapeutic Response Differences between PCV and AMD
Gregg Kokame
- 10:51 a.m. The Effects of Intravitreal Anti-VEGF Injections on Ocular Perfusion Pressure
Elias Reichel
- 10:59 a.m. Twelve-Month Safety and Visual Acuity Outcome of a Pilot Study Exploring Ranibizumab Combined with Proton Beam Irradiation as Treatment for Exudative Age-Related Macular Degeneration
Susanna Park

- 11:07 a.m. Radiation Therapy for Exudative Age-Related Macular Degeneration: Results of a Non-Invasive Approach
Darius Moshfeghi
- 11:15 a.m. Regression of Recalcitrant Peripapillary Choroidal Neovascularization after ICG Assisted Oscillating Transpupillary Thermotherapy and Anti-VEGFS
Gholam Peyman
- 11:23 a.m. **End of Session and Meeting**