

# Macula Society Imaging Cases for 2010

WEDNESDAY, FEBRUARY 24, 2010

*Imaging and Case Study Conference*

- 4:30 - 6:30 p.m.**      **Chair:**      **Larry Yannuzzi**  
   **Moderator:**      **Carol Shields**
- 4:30 p.m.      Philip Rosenfeld  
   A Pitiful Outcome
- 4:36 p.m.      Rajendra Apte  
   Sickle Cell Retinopathy with Tangential Traction and a Full  
   Thickness Macular Hole
- 4:42 p.m.      Hyoung Koh  
   Prognostic Factors for Visual Outcome after Intravitreal Anti-  
   VEGF for Myopic Choroidal Neovascularization
- 4:48 p.m.      James Folk  
   Relapsing Choroiditis
- 4:54 p.m.      Carol Shields  
   Unusual Cause of Macular Edema
- 5:00 p.m.      Charles Barr  
   Unknown or Masquerade Syndrome
- 5:06 p.m.      Leonidas Zografos  
   Wide Field (150°) ICG and Fluorescein Angiography in Uveal  
   Melanomas
- 5:12 p.m.      Michael Marmor  
   Youngster Referred for Chronic Serous Detachment
- 5:18 p.m.      Andrew Lotery  
   Successful Treatment of Choroidal Neovascularization  
   Secondary to Sorsby's Fundus Dystrophy with Intravitreal  
   Bevacizumab
- 5:24 p.m.      Mark Johnson  
   Mystery Case

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continued

- 5:30 p.m. Stephen Tsang  
Autofluorescence Imaging and Phenotypic Variance in a Sibling Pair with Early Onset Retinal Dystrophy Due to Defective CRB1 Function
- 5:36 p.m. Salomon Cohen  
West-Indies Cracked Retinal Pigment Epitheliopathy
- 5:42 p.m. K. Freund  
Using the SD-OCT “Time Machine” to Clarify the Origin of Type 3 Neovascularization
- 5:48 p.m. Mathew MacCumber  
Vitrectomy for Myopic Macular Retinoschisis
- 5:54 p.m. Anita Agarwal  
Salt and Pepper Fundus in Women in a Family
- 6:00 p.m. Robert Liss  
Choroidal Neovascularization in a Child, unknown. Long-Term Follow Up
- 6:06 p.m. Michaella Goldstein  
Macular Edema?
- 6:12 p.m. Lawrence Yannuzzi  
A Mystery Curvilinear Tract in the Fundus:  
Straightening it Out
- 6:18 p.m. Richard Spaide  
Fluorescein Case — Panretinal Fluorescein Angiogram of Central Retinal Vein Occlusion
- 6:24 p.m. Jose Pulido  
Effect of PDT on Peripapillary Lesion



2010  
*Scientific Program*

Thursday, Friday and Saturday

February 25 – 27, 2010  
Tucson, Arizona

**The eight minutes allotted time for each presentation includes 6 minutes presentation 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: Jobanna Seddon*

*Moderator: Jason Slakter*

- 8:47 a.m. Prediction Models and New Genetic Pathways for Age-Related Macular Degeneration  
*Jobanna 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 Chaudhry*
- 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 $\beta$  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  
*Nagabisa Yoshimura*
- 1:10 p.m. Subfoveal Choroidal Thickness Following Treatment of Central Serous Chorioretinopathy  
*Tomobiro 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**