

The Macula Society

33rd Annual Scientific Program



*Honors W. Richard Green
Loews Ventana Canyon Resort
Tucson, Arizona
February 24 – 27, 2010*

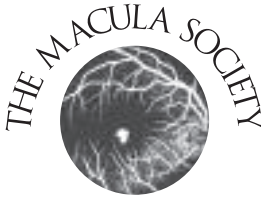
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The Macula Society honors

William Richard Green, MD

Independent Order of Odd Fellows Professor of Ophthalmology
Professor of Pathology
Johns Hopkins University, School of Medicine
Director of Ophthalmic Pathology
The Wilmer Institute

Dedicated Scientist, Scholar, Teacher and Mentor



established in 1977



**William Richard
Green, MD**

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Registration

Wednesday, February 24, 2010
1:00 p.m.–6:00 p.m.

Thursday, February 25, 2010
7:00 a.m.–12:00 p.m.

Friday, February 26, 2010
6:45 a.m.–12:00 p.m.

Saturday, February 27, 2010
7:30 a.m.–10:00 a.m.

Imaging Cases/Short Presentations

Wednesday, February 24, 2010
4:30 p.m.–6:30 p.m.

Meetings

Executive Committee
Wednesday, February 24, 2010
2:30 p.m.–4:30 p.m.
Rincon Conference Room

Annual Business Meeting
Friday, February 26, 2010
7:00 a.m.–7:30 a.m.

Scientific Program

Thursday, February 25, 2010
7:30 a.m.–12:37 p.m.

Friday, February 26, 2010
7:30 a.m.–1:26 p.m.

Saturday, February 27, 2010
8:00 a.m.–11:23 a.m.

Social Program

Wednesday, February 24, 2010
Welcome Buffet
Bill's Grill and Croquet Court
6:30 p.m.

Friday, February 26, 2010
Cocktails
6:30 p.m.
Gala Dinner
Grand Ballroom

Thursday, Friday, Saturday
February 25 – 27, 2010
Breakfast Buffet
7:00 a.m. – 9:30 a.m.

*The
Macula Society*

gratefully acknowledges
the support of

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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
 Sickie 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

Macula Society Imaging Cases for 2010

WEDNESDAY, FEBRUARY 24, 2010

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 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**

