



**JOHNS HOPKINS**  
M E D I C I N E

CONTINUING MEDICAL EDUCATION

Johns Hopkins University School of Medicine  
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# MAGULA 2010

**January 23, 2010 • Baltimore, Maryland**

DATED MATERIAL



The Retina Division of  
The Wilmer Eye Institute

at

The Johns Hopkins University School of Medicine

presents

# MACULA 2010

**Saturday, January 23, 2010**

The Johns Hopkins University School of Medicine

Thomas B. Turner Building

Baltimore, Maryland

Activity Directors:

**Neil Bressler, MD**

**Diana Do, MD**

**Quan Dong Nguyen, MD, MSc**



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## DESCRIPTION

Over the past several years, there is a growing body of medical evidence that demonstrates a clear biological rationale for targeting vascular endothelial growth factors (VEGFs) in the treatment of neovascular AMD, diabetic retinopathy, and venous occlusive disease. This area of investigation is relatively new, and most ophthalmologists are not aware of the myriad growth factors and their potential role in AMD, diabetic retinopathy, and venous occlusive disease. There is a need to understand these new tools for assessing outcomes and also to understand data based on visual acuity loss measurements from clinical trials of these new agents. Furthermore, it is important to review the role of imaging studies, especially optical coherence tomography, in the management of these ocular conditions. Thus, this new therapeutic approach for neovascular AMD, diabetic retinopathy, and venous occlusive disease has been evolving over the past three years and is an area of great interest both to ophthalmologists who treat these diseases and to those who refer these cases for further management. Presentations will be chosen to emphasize new information on the use of VEGF inhibitors and pharmacologic agents in the management of these diseases. In addition, cases will be chosen which highlight new information being reported by the Diabetic Retinopathy Clinical Research Network and other randomized clinical trials.

## Accreditation Statement

The Johns Hopkins University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

## Credit Designation Statement

The Johns Hopkins University School of Medicine designates this educational activity for a maximum of 8.0 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## Emergency Calls

On the day of this activity only, January 23, 2010, direct emergency calls to the Hopkins registration desk, (410) 955-3673. Messages will be posted for participants.

## Americans with Disabilities Act

The Johns Hopkins University School of Medicine fully complies with the legal requirements of the ADA and the rules and regulations thereof. Please notify us if you have any special needs.

## Acknowledgement

Applications for commercial support from health care related industries are pending. A complete list of contributors will be provided in the syllabus.

## WHO SHOULD ATTEND

This activity is intended for Ophthalmologists, Retina Specialists, Residents, Fellows, and Eye care professionals.

## OBJECTIVES

After attending this activity, the participant will demonstrate the ability to:

- Recognize the role of angiogenesis in AMD and evaluate various treatment intervals for eyes undergoing therapy with VEGF inhibitors.
- Evaluate recent clinical studies evaluating treatments for macular edema due to retinal vein occlusion.
- Recognize the role of spectral domain OCT in the management of eyes with neovascular AMD.
- Review the current and emerging therapies for treating non-neovascular AMD.
- Summarize evidence of the role of ranibizumab for diabetic macular edema.
- Determine which patients are appropriate for laser treatment in eyes with diabetic macular edema.
- Diagnose choroidal melanoma and review treatment options.
- Be familiar with the management of diabetic retinopathy and the new results from the clinical trials conducted by the Diabetic Retinopathy Clinical Research Network.

## Policy on Speaker and Provider Disclosure

It is the policy of The Johns Hopkins University School of Medicine that the speaker and provider disclose real or apparent conflicts of interest relating to the topics of this educational activity, and also disclose discussions of unlabeled/unapproved uses of drugs or devices during their presentation(s). The Johns Hopkins University School of Medicine OCME has established policies in place that will identify and resolve all conflicts of interest prior to this educational activity. Detailed disclosure will be made in the activity handout materials.

## To Register or for Further Information

Register Online	www.HopkinsCME.edu
Register by Phone (credit card only)	(410) 502-9634
Register by Fax	(866) 510-7088
Confirmation/Certificates	(410) 502-9634
General Information	(410) 955-2959
E-mail the Office of CME	cmenet@jhmi.edu

Sponsoring Department [Division] Website:  
[www.http://www.hopkinsmedicine.org/wilmer/services/retina.html](http://www.hopkinsmedicine.org/wilmer/services/retina.html)

For general information, the direct link for this CME activity web page is:  
<http://www.hopkinscme.edu/CourseDetail.aspx/80022730>.

## GENERAL INFORMATION

### Registration

January 23, 2010 • 7:00 am - 7:30 am

### Location

Thomas B. Turner Building  
The Johns Hopkins University School of Medicine  
720 Rutland Avenue  
Baltimore, Maryland 21205

The Turner Building is located on Rutland Avenue at Monument Street. Directions and campus parking information are available on our website under the contact and travel section at [www.HopkinsCME.edu](http://www.HopkinsCME.edu). Handicapped parking is available in the nearby Rutland Garage. Johns Hopkins is smoke-free. Complimentary parking is available in the Washington Street Garage.

### Fees

**REGISTRATION CUT-OFF DATE: January 18, 2010**

**Methods of Payment:** Payment by check or credit card must accompany the registration form prior to the activity. On-site payments by credit card only. Foreign payments must be by credit card or with a U.S. Dollar World Money Order. The registration fee includes instructional materials, continental breakfast, refreshment breaks and lunch.

Early-bird fees	Before December 4	After December 4
Physicians/Allied Health Professionals	\$325	\$375
Residents*/Fellows*	\$200	\$250

\*with verification of status

You will receive a confirmation by e-mail if you have provided your e-mail address. Otherwise confirmation will be sent by mail. If you have not received it by January 18, 2010, call (410) 502-9634 to confirm that you are registered. Certificates of attendance will be mailed by March 1, 2010.

The Johns Hopkins University reserves the right to cancel or postpone any activity due to unforeseen circumstances. In this event, the University will refund the registration fee but is not responsible for travel expenses. Additionally, we reserve the right to change the venue to a comparable venue. Under such circumstances registrants will be notified as soon as possible.

### Late Fee and Refund Policy

A \$50 late fee applies to registrations received after 5:00 p.m. EST on January 18, 2010. A handling fee of \$50 will be deducted for cancellation. Refund requests must be received by fax or mail by January 18, 2010. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins conference in lieu of cancellation is not possible.

### Hotel and Travel Information

We strongly encourage you to book your accommodations at the Hyatt Regency Inner Harbor Hotel, which is the conference headquarters hotel. The Johns Hopkins Office of CME makes every effort to secure the best rate for overnight accommodations. The rate is part of a negotiated conference package that incorporates many services. By staying at the host hotel and booking within the room block, you help us maintain current conference benefits and keep future registration fees reasonable. Please consider this when making your overnight accommodations decision.

Hyatt Regency Inner Harbor Hotel	Phone: (800) 233-1234
300 Light Street	or (410) 528-1234
Baltimore, Maryland 21202	FAX: (410) 665-3362

**HOTEL RESERVATION CUT-OFF DATE: DECEMBER 22, 2009**

A block of rooms has been reserved for our participants. Call the hotel directly to make your reservation. Specify that you are attending the **Johns Hopkins Macula 2010** activity to receive the special room rate of \$139, single or double, plus tax. Complimentary transportation will be provided to the activity. On-site parking is available at the hotel at an additional charge. Check-in time is 4:00 p.m.

Call United Airlines at (800) 521-4041 for discounted rates and refer to Meeting ID Number 549TJ.

# MACULA 2010

## PROGRAM

Saturday, January 23, 2010

7:00 - 7:30 am Breakfast and Registration

*Note: All presentations will be 10 minutes and then include 5 additional minutes of discussion to follow the presentations.*

7:30 - 7:35 Welcome from Activity Directors

### RETINAL VASCULAR DISEASE

*Moderators:* Morton Goldberg, MD and Hendrik Scholl, MD

7:35 - 7:50 **Steroids for Macular Edema in Vein Occlusion?**  
Jennifer Sung, MD

7:50 - 8:05 **Ranibizumab for Macular Edema from Vein Occlusion?**  
Peter Campochiaro, MD

8:05 - 8:20 **How Does One Choose Steroids or Ranibizumab for Macular Edema in CVO? What Happened to Grid Laser for Macular Edema in BVO?**  
Neil Bressler, MD

8:20 - 8:35 **Rationale for Ranibizumab in DME?**  
Susan Bressler, MD

8:35 - 8:50 **Focal/Grid Laser for DME – Is it Relevant in 2010?**  
Alexander Brucker, MD

8:50 - 9:05 **How Should We Classify Diabetic Retinopathy?**  
C.P. Wilkinson, MD

### IMAGING

*Moderators:* Gabriel Coscas, MD and John Huang, MD

9:05 - 9:20 **What Does a SD OCT Have That a TD OCT Doesn't Have?**  
SriniVas Sadda, MD

9:20 - 9:30 **With OCT Here to Stay, When Does a Retina Person Still Need Ultrasonography?**  
Cathy Dibernardo, RN, RDMS, ROUB

9:30 - 9:40 **How Might One Use OCT When Managing Diabetic Macular Edema?**  
Richard Rosen, MD

9:40 - 9:50 **Is There a Role for Wide-Angle Fluorescein Angiographic Imaging?**  
K. Bailey Freund, MD

9:50 - 10:05 **Should CMS Be Concerned About Imaging Costs in the Management of Retinal Diseases?**  
John Thompson, MD

10:05 - 10:20 **Do We Need OCT to Manage Uveitis?**  
Douglas Jabs, MD, MBA

10:20 - 10:45 Refreshment Break – Visit Exhibits

10:45 - 10:50 **Introduction of Keynote Lecture**  
Daniel Finkelstein, MD

10:50 - 11:10 **Keynote Lecture**  
**The Evolution of Imaging in Retina: From Fluorescein Angiography in the 1960s to Spectral Domain OCT in the 21st Century**  
Gisele Soubrane, MD, PhD

### TUMORS

*Moderators:* Jerry Shields, MD and Barbara Hawkins, PhD

11:10 - 11:25 **How to Diagnose Uveal Melanoma**  
Carol Shields, MD

11:25 - 11:40 **When Should Plaque Radiotherapy be the First Line Treatment for Choroidal Melanoma?**  
James Handa, MD

11:40 - 11:55 **Are There Really Masquerades for Uveal Melanoma?**  
Jerry Shields, MD

11:55 - 12:10 **What's New in the Management of Retinoblastoma?**  
David Abramson, MD, FACS

12:10 - 1:00 Lunch

### NEOVASCULAR AMD

*Moderators:* Frederick Ferris III, MD and Ingrid Zimmer-Galler, MD

1:00 - 1:15 **Detecting New Onset CNV: The AMD DOC Study**  
Diana Do, MD

1:15 - 1:30 **What's New with Polypoidal CNV?**  
Lawrence Yannuzzi, MD

1:30 - 1:45 **Will There Be a Role for VEGF Trap or Potential Therapies for Neovascular AMD Other than Bevacizumab or Ranibizumab?**  
Quan Dong Nguyen, MD, MSc

1:45 - 2:00 **What's the Status of CATT?**  
Stuart Fine, MD

2:00 - 2:15 **What Have We Learned Regarding Retreatments with Ranibizumab from PIER, HORIZON, SUSTAIN, RADICAL, EXCITE, and Others?**  
Carl Regillo, MD, FACS

2:15 - 2:30 **How Often Should Patients Return for Follow-up Following Anti-VEGF Treatment for Neovascular AMD?**  
Jeffrey Heier, MD

2:30 - 2:55 **AMD Cases and Panel Discussion**  
Susan Bressler, MD (Moderator);  
Diana Do, MD; Lucian Del Priore, MD, PhD;  
Carl Regillo, MD, FACS; John Thompson, MD

2:55 - 3:20 Refreshment Break – Visit Exhibits

### GEOGRAPHIC ATROPHY IN AMD

*Moderators:* Howard Ying, MD, PhD and James Klancnik Jr, MD

3:20 - 3:35 **What is New in Understanding the Genetics of Geographic Atrophy in AMD?**  
Ivana Kim, MD

3:35 - 3:50 **What is the Status of Treatments for Geographic Atrophy?**  
Adrienne Scott, MD

3:50 - 4:05 **Is There a Role for Autofluorescence in the Management of Geographic Atrophy?**  
Emily Chew, MD

### SURGICAL RETINA

*Moderators:* Harry Flynn Jr, MD, and James Handa, MD

4:05 - 4:20 **What are the Risks and Benefits of Microincisional Vitrectomy?**  
Allen Ho, MD

4:20 - 4:35 **When is Scleral Buckling First-Line Therapy for Retinal Detachment?**  
Peter Gehlbach, MD, PhD

4:35 - 4:50 **When is Vitrectomy First-Line Therapy for Retinal Detachment?**  
Harry Flynn Jr, MD

4:50 - 5:05 **What Advances Have Occurred within the Last 5 Years Regarding Management of ROP?**  
David Barañano, MD, PhD

5:05 - 5:20 **Management of Endophthalmitis: What Have We Learned 15 Years After the Endophthalmitis Vitrectomy Study (EVS)**  
Donald D'Amico, MD

5:20 **Closing Remarks**  
Neil Bressler, MD  
*Adjourn – Please complete and return the Evaluation and Credit Report Forms.*

The Johns Hopkins University School of Medicine takes responsibility for the content, quality and scientific integrity of this CME activity.

This schedule is subject to change.

## SPEAKERS

### ACTIVITY DIRECTORS

#### Neil Bressler, MD

James P. Gillis Professor of Ophthalmology  
Chief, Retina Division

#### Diana Do, MD

Assistant Professor of Ophthalmology

#### Quan Dong Nguyen, MD, MSc

Associate Professor of Ophthalmology

### GUEST SPEAKERS

#### David Abramson, MD, FACS

Chief, Ophthalmic Oncology Service  
Memorial Sloan-Kettering Cancer Center  
New York, New York

#### David Barañano, MD, PhD

Vitreoretinal Fellow  
Emory Eye Center  
Atlanta, Georgia

#### Alexander Brucker, MD

Professor of Ophthalmology  
Scheie Eye Institute  
University of Pennsylvania  
Philadelphia, Pennsylvania

#### Emily Chew, MD

Deputy Director  
Division of Epidemiology and  
Clinical Research  
National Eye Institute  
Bethesda, Maryland

#### Gabriel Coscas, MD

Honorary Professor of Clinical  
Ophthalmology  
and Chairman Emeritus  
Clinique Ophtalmologique  
Universitaire de Creteil  
Universite de Paris-XII  
Creteil, France

#### Donald D'Amico, MD

Professor and Chairman  
Department of Ophthalmology  
Weill Cornell Medical College  
New York, New York

#### Lucian Del Priore, MD, PhD

Robert L. Burch Scholar and Professor  
Department of Ophthalmology  
Columbia University  
New York, New York

#### Frederick Ferris III, MD

Director, Division of Epidemiology and  
Clinical Research  
National Institutes of Health  
Bethesda, Maryland

#### Stuart Fine, MD

Irene Heinz Given and John LaPorte Given  
Research Professor of Ophthalmology  
Chairman and Director  
Department of Ophthalmology  
Scheie Eye Institute  
University of Pennsylvania  
Philadelphia, Pennsylvania

#### Harry Flynn Jr, MD

Professor of Ophthalmology  
J. Donald M. Gass Distinguished Chair  
in Ophthalmology  
Bascom Palmer Eye Institute  
University of Miami  
Miller School of Medicine  
Miami, Florida

#### K. Bailey Freund, MD

Clinical Associate Professor  
New York University School of Medicine  
Vitreous Retina Macula Consultants  
of New York  
New York, New York

#### Jeffrey Heier, MD

Vitreoretinal Specialist  
Ophthalmic Consultants of Boston  
Boston, Massachusetts

#### Allen Ho, MD

Professor of Ophthalmology  
Wills Eye Institute  
Thomas Jefferson University  
Philadelphia, Pennsylvania

#### John Huang, MD

Assistant Professor of Ophthalmology  
Department of Ophthalmology and  
Visual Sciences  
Yale University  
New Haven, Connecticut

#### Douglas Jabs, MD, MBA

Professor and Chair  
Department of Ophthalmology  
Mt. Sinai School of Medicine  
New York, New York

#### Ivana Kim, MD

Assistant Professor of Ophthalmology  
Harvard Medical School  
Massachusetts Eye & Ear Infirmary  
Boston, Massachusetts

#### James Klancnik Jr, MD

Assistant Professor of Clinical  
Ophthalmology  
New York University School of Medicine  
New York, New York

#### Carl Regillo, MD, FACS

Professor of Ophthalmology  
Director, Clinical Retina Research  
Wills Eye Institute  
Thomas Jefferson University  
Philadelphia, Pennsylvania

#### Richard Rosen, MD

Vice Chairman and Surgeon Director  
Director of Ophthalmic Research  
Retina Consultations and Surgery  
New York Eye & Ear Infirmary  
New York, New York

#### SriniVas Sadda, MD

Associate Professor of Ophthalmology  
Director, Medical Retina Unit and  
Ophthalmic Imaging Unit  
Doheny Eye Institute  
University of Southern California  
Keck School of Medicine  
Los Angeles, California

#### Carol Shields, MD

Professor of Ophthalmology  
Co-Director, Ocular Oncology Service  
Thomas Jefferson University  
Wills Eye Institute  
Philadelphia, Pennsylvania

#### Jerry Shields, MD

Director, Ocular Oncology Service  
Professor of Ophthalmology  
Wills Eye Institute  
Thomas Jefferson University  
Philadelphia, Pennsylvania

#### Gisele Soubrane, MD, PhD

Professor of Clinical Ophthalmology  
Clinique Ophtalmologique  
Universitaire de Creteil  
Creteil, France

#### Lawrence Yannuzzi, MD

Professor of Clinical Ophthalmology  
College of Physicians and Surgeons  
Columbia University  
New York, New York

### JOHNS HOPKINS SPEAKERS

#### Susan Bressler, MD

Julia G. Levy, PhD Professor of  
Ophthalmology

#### Peter Campochiaro, MD

George S. and Dolores Doré Eccles  
Professor of Ophthalmology and Neuroscience

#### Cathy Dibernardo, RN, RDMS, ROUB

Associate Professor of Ophthalmology

#### Daniel Finkelstein, MD

Professor of Ophthalmology

#### Peter Gehlbach, MD, PhD

Associate Professor of Ophthalmology

#### Morton Goldberg, MD

Joseph E. Green Professor of Ophthalmology  
Former Director, Wilmer Eye Institute

#### James Handa, MD

Robert Bond Welch Professor of  
Ophthalmology

#### Barbara Hawkins, PhD

Professor Emeritus of Ophthalmology  
Professor of Epidemiology  
The Johns Hopkins Bloomberg  
School of Public Health

#### Hendrik Scholl, MD

Visiting Professor of Ophthalmology

#### Adrienne Scott, MD

Assistant Professor of Ophthalmology

#### Jennifer Sung, MD

Assistant Professor of Ophthalmology

#### John Thompson, MD

Visiting Professor of Ophthalmology

#### C.P. Wilkinson, MD

Professor of Ophthalmology

#### Howard Ying, MD, PhD

Assistant Professor of Ophthalmology

#### Ingrid Zimmer-Galler, MD

Associate Professor of Ophthalmology

## REGISTRATION FORM

Course Number 80022730

**Macula 2010** • January 23, 2010

**To Register:** Online: [www.HopkinsCME.edu](http://www.HopkinsCME.edu) By fax: (866) 510-7088  
By phone (credit card only): (410) 502-9634

Or mail this form to The Johns Hopkins University, Office of Continuing Medical Education, P.O. Box 64128, Baltimore, Maryland 21264-4128. Include check payable to **HOPKINS/80022730** or include credit card information below.

PAYMENT MUST ACCOMPANY FORM TO CONFIRM YOUR REGISTRATION.

Please type or print clearly:

last name first name middle initial

primary degree (for name badge) primary specialty

preferred mailing address

city state ZIP + 4 code country

daytime telephone fax number

e-mail

You will receive confirmation notice by e-mail if you provide your e-mail address.

Check here if you wish to receive e-mail and/or fax notices about upcoming CME activities.

What do you hope to learn by attending this activity?

Please notify us if you have any special needs.

### Registration Fees:

Early-bird fees	Before December 4	After December 4
<input type="checkbox"/> Physicians/Allied Health Professionals .....	\$325	\$375
<input type="checkbox"/> Residents*/Fellows* .....	\$200	\$250

\*with verification of status

For registrations received after 5:00 p.m. EST on January 18, 2010 include a \$50 late fee. On-site registrations are payable only by credit card.

Total amount enclosed \$ \_\_\_\_\_

### Payment Type:

**JHU Faculty/Staff Only:** Complete registration form and return with appropriate form below to OCME, Turner 20.

**Internal Order Number:** The ION Data Request Form, can be found online at <http://www.hopkinscme.edu/pdfs/IonRequest.pdf>.

**Tuition Remission:** To apply for TR, go to <http://benefits.jhu.edu/EduBenefits/tuitionRemission.cfm>. This is a non-credit professional development activity.

**Check** (See instructions on top of form.)

**Credit Card:**  VISA  MASTERCARD  DISCOVER  AMEX

Card # \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Exp. Date \_\_\_\_\_

Name on Card

Signature and Date