

# ANDREW M. SCHIMEL, M.D.

8940 N. Kendall Drive Suite 400e • Miami, FL 33176  
(305) 598-2020 ext. 1012

## CURRENT POSITION

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**Center for Excellence in Eye Care**  
Surgical and Medical Vitreoretinal Specialist

Miami, FL  
August 2012-present

**Florida International University, Wertheim College of Medicine**  
Assistant Professor of Ophthalmology

Miami, FL  
August 2012-present

## EDUCATION

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**Northwestern University, Feinberg School of Medicine**  
Doctorate of Medicine  
*Alpha Omega Alpha*

Chicago, IL  
August 2002-May 2006

**University of Michigan**  
Bachelor of Science in Biopsychology and Cognitive Sciences with Honors  
G.P.A. 4.0 / 4.0  
*Phi Beta Kappa*  
*Summa Cum Laude*

Ann Arbor, MI  
August 1998-May 2002

## POST-GRADUATE TRAINING

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**Bascom Palmer Eye Institute**  
Vitreoretinal Fellow

Miami, FL  
July 2010-July 2012

**Washington University / Barnes-Jewish Hospital**  
Ophthalmology Resident

Saint Louis, MO  
July 2007-June 2010

**Saint Joseph Hospital, University of Illinois College of Medicine**  
Transitional Intern

Chicago, IL  
July 2006-June 2007

## HONORS AND AWARDS

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Selected to present at the Vit-Buckle Society Meeting (2011)  
Selected to present at the AUPO/RPB Resident and Fellow Research Forum (2010)  
Rosenbaum Research Award for "Most Outstanding Research by a Resident," Washington University (2009)  
Heed Ophthalmic Foundation Retreat Invitation (2008)  
Pepose Young Investigator Award for Research Excellence (2008)  
Awarded \$5,000 Grant for Research in Retinal Degeneration, Oxidation, and Retinal Cell Biology (2007)  
*Alpha Omega Alpha* Medical Honors Society (2005)  
Strongberg Scholarship for Outstanding Medical Research (2004)  
Highest Distinction and Honors, University of Michigan – Ann Arbor (2002)  
James B. Angell Scholarship for eight consecutive semesters with all A's (2002)  
*Phi Beta Kappa* Honors Society (2001)  
William J. Branstrom Academic Prize (1999)  
Governor's Valedictorian Award (1998)

## MEMBERSHIPS

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<b>American Board of Ophthalmology – Board Certified</b>	2012-present
<b>Diabetic Retinopathy Clinical Research Network</b>	2010-present
<b>Vit-Buckle Society</b>	2010-present
<b>Florida Society of Ophthalmology</b>	2010-present
<b>Association for Research in Vision and Ophthalmology</b>	2008-present
<b>American Academy of Ophthalmology</b>	2007-present

## RESEARCH EXPERIENCE

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**Bascom Palmer Eye Institute, University of Miami School of Medicine** Miami, FL  
 July 2011-present  
*Research Focus:* Develop a manuscript compiling tips and pearls helpful in mastering novel as well as traditional vitreoretinal surgical techniques based on the wealth of experience and expertise of the faculty at the Bascom Palmer Eye Institute.  
*Mentor:* William E. Smiddy, MD

**Bascom Palmer Eye Institute, University of Miami School of Medicine** Miami, FL  
 July 2010-present  
*Research Focus:* Review all cases of endophthalmitis presenting to Bascom Palmer Eye Institute between October 2002 and December 2011 and evaluate the data for infection type, antibacterial coverage and resistance, as well as infection trends. Further review cost-effectiveness of antibacterial treatment and prophylaxis in various clinical scenarios.  
*Mentor:* Harry W. Flynn, MD

**Bascom Palmer Eye Institute, University of Miami School of Medicine** Miami, FL  
 July 2010-July 2012  
*Research Focus:* Clinical SubInvestigator for the following trials:  
 1) A Natural History Observational Study of Macular Telangiectasias – The MacTel Study  
 2) COMPLEMENT Inhibition with Eculizumab for the Treatment of Non-Exudative Age-Related Macular Degeneration Study: COMPLETE Study  
 3) Controlled, Double-Masked, Randomized, Multicenter Study to Evaluate AL-78898A as a Treatment of Exudative AMD: RACE Study  
*Mentor:* Philip J. Rosenfeld, MD, PhD

**Washington University, Department of Ophthalmology and Visual Sciences** Saint Louis, MO  
 2007-2011  
*Research focus:* Evaluate the potential for a novel compound, *N*-acetylcysteine amide, to prevent oxidative damage and cell death in the retinal pigment epithelium *in vitro* and to delay retinal degeneration and AMD *in vivo*. Successful testing included complete prevention of oxidative cell damage and death in ARPE-19 cells *in vitro*, and maintenance of photoreceptor health and visual potential in both a phototoxicity mouse model as well as a model of retinitis pigmentosa (*rd10*) *in vivo*.  
*Mentor:* Rajendra S. Apte, MD, PhD

**Children’s Memorial Hospital, Department of Ophthalmology** Chicago, IL  
 2005-2006  
*Research Focus:* Describe clinical and electroretinographic results of retinal degeneration in cobalamin C disease. Review and evaluate the ophthalmic data regarding cobalamin C disease and present a new mechanism explaining its findings.  
*Mentor:* Marilyn B. Mets, MD

**Northwestern University, Department of Ophthalmology** Chicago, IL  
 2004  
*Research focus:* Assess geographic distribution of board certified ophthalmologists in Illinois with respect to Illinois population and evaluate the change in distribution during the past decade.  
*Mentor:* Marilyn B. Mets, MD

**Northwestern University, Department of Ophthalmology**

*Research focus:* Determine feasibility of using scanning laser ophthalmoscopy (HRT II) to explore the optic nerve parameters as a function of age and race.

*Mentor:* Angelo Tanna, MD

Chicago, IL  
2003

**University of Michigan, Glick Laboratory**

*Research focus:* Design and implement an original protocol for ABC staining of Bcl-2 family proteins. Utilize immunohistochemical staining and analysis to determine indications for varying oncogene expression in germinal centers of mice.

*Mentor:* Anthony Opirari, MD, PhD

Ann Arbor, MI  
2001-2002

**SELECTED PUBLICATIONS AND ABSTRACTS**

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**Schimel AM**, Miller D, Flynn HW. Endophthalmitis Isolates and Antibiotic Susceptibilities: A 10-year Review of Culture-proven Cases. Accepted to American Journal of Ophthalmology, pending publication.

**Schimel AM**, Miller D, Flynn HW. Evolving Fluoroquinolone Resistance Among Coagulase-negative Staphylococcus Isolates Causing Endophthalmitis. Archives of Ophthalmology. 2012 Dec;130(12).

**Schimel AM**, Flynn HW. Endophthalmitis: The Evolving Role of Antibiotics. Review of Ophthalmology. August 2012.

**Schimel AM**, Grand MG, Flynn HW. Surgery for Retinal Detachment: Does Experience Matter? Retina. 2012 Jan;32(1):1-3.

**Schimel AM**, Scott IU, Flynn HW. Endophthalmitis after Intravitreal Injections: Should the Use of Facemasks be Standard of Care? Arch Ophthalmol. 2011 Dec;129(12):1607-9.

Ahmed Y, **Schimel AM**, Pathengay A, Colyer MH, Flynn HW Jr. Endophthalmitis Following Open-Globe Injuries. Eye (Lond). 2011 Dec 2.

**Schimel AM**, Fisher Y, Flynn HW. Optical Coherence Tomography in the Diagnosis and Management of Diabetic Macular Edema: Time Domain Versus Spectral Domain. Ophthalmic Surg Lasers Imaging. 2011 July/August;42(4):41-55.

**Schimel AM**, Abraham L, Cox D, Sene A, Kraus C, Dace D, Ercal N, Apte RS. N-acetylcysteine amide prevents retinal degeneration by upregulating reduced glutathione production and reversing lipid peroxidation. Am J Pathol. 2011 May;178(5):2032-43.

**Schimel AM**, Rao PK. Book Chapter: The Histopathology of Uveitis. In: D. Goldstein and A. Birnbaum, Handbook of Uveitis. 1st ed. 2012: World Scientific Publishing Company. In Press.

**Schimel AM**, Rao PK. Book Chapter: Intermediate Uveitis. In: D. Goldstein and A. Birnbaum, Handbook of Uveitis. 1st ed. 2012: World Scientific Publishing Company. In Press.

**Schimel AM**, Miller D, Flynn HW. Vitreous Isolates and Antibiotic Sensitivities: An 8-year Review of Culture-proven Endophthalmitis Cases. Invest Ophthalmol Vis Sci. 2011. 52: E-abstract 519.

**Schimel AM**, Shirodkar AR, Flynn HW, Dugel PU. A New Paradigm in the Treatment of Diabetic Macular Edema in the Anti-VEGF Era: An assessment of risks, and benefits, as well as costs. Retina Times. 36(3):23-24, 2010.

**Schimel AM**, Abraham L, Kraus C, Ercal N, Apte RS. A Novel Thiol Antioxidant, *N*-Acetylcysteine Amide, Prevents Retinal Degeneration in *rd10* Mice. Invest Ophthalmol Vis Sci. 2010. 51: E-abstract 340.

**Schimel AM**, Abraham L, Kraus C, Ercal N, Apte RS. *N*-Acetylcysteine Amide: A Potential Cure for Retinal Pigment Epithelium Oxidative Stress and Retinal Degeneration? Invest Ophthalmol Vis Sci. 2009. 50: E-abstract 669.

**Schimel AM**, Abraham L, Ercal N, Apte, RS. Protection of Retinal Pigment Epithelial Cells from Oxidative Injury by *N*-acetylcysteine Amide, a Novel Thiol Antioxidant. Invest Ophthalmol Vis Sci. 2008. 49: E-abstract 559.

**Schimel A**, Mets MB. The Natural History of Retinal Degeneration in Association with Cobalamin C Disease. Ophthalmic Genet. 27(1): 9-14, 2006.

Pyatetsky D, **Schimel A**, Mets MB, Illinois Ophthalmologist Manpower Distribution Study, Years 1990 and 2000. Invest Ophthalmol Vis Sci. 2005. 46: E-abstract 1943.

Pyatetsky D, **Schimel A**, Krupin T, Mets MB, Lasky JB, Tanna AP. Assessment of Optic Disc Morphology in Children. Invest. Ophthalmol. Vis. Sci. 2004. 45: E-abstract 51.

## **PRESENTATIONS**

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**Schimel AM**, Miller D, Flynn HW. Endophthalmitis Update: June 2012  
What We Have Learned Over the Past 25 Years.  
Bascom Palmer Residents' Days 2012

**Schimel AM**, Berrocal AM. Failure to Fuse: Repair of Retinal Detachment March 2012  
with Coloboma or Optic Nerve Pit.  
Bascom Palmer Eye Institute Grand Rounds

**Schimel AM**. More Fundamentals of Retinal Billing and Coding. February 2012  
Bascom Palmer Eye Institute, Retina Conference

**Schimel AM**, Thomas B. Epiretinal Membrane Surgery: to peel or not to peel [ILM]. November 2011  
Bascom Palmer Eye Institute, Retina Conference

**Schimel AM**. Breakfast and Break with the Experts: Expert for Endophthalmitis. October 2011  
American Academy of Ophthalmology Meeting

Wilkinson CP, Williams GA, Joseph DP, Ryan EH, **Schimel AM**. October 2011  
Retinal Detachment Course Instructor  
American Academy of Ophthalmology Meeting

**Schimel AM**, Berrocal AM. Retinal Detachment and Coloboma. October 2011  
Vit-Buckle Society

**Schimel AM**, Flynn HW. Endophthalmitis and Intravitreal Injections. October 2011  
Bascom Palmer Eye Institute, Retina Conference

**Schimel AM**, Miller D, Flynn HW. Vitreous Isolates and Antibiotic Sensitivities: June 2011  
An 8-year Review of Culture-proven Endophthalmitis Cases.  
Bascom Palmer Residents' Days 2011

**Schimel AM**, Flynn HW, Yannuzzi, L. An Interesting Case: vasoproliferative tumor. April 2011

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Bascom Palmer Vitreoretinal Course Update 2011 <b>Schimel AM.</b> Subretinal Biopsy. Vit-Buckle Society	February 2011
<b>Schimel AM.</b> Pseudophakic Cystoid Macular Edema. Bascom Palmer Eye Institute, Retina Conference	February 2011
<b>Schimel AM.</b> The Fundamentals of Retinal Billing and Coding. Bascom Palmer Eye Institute, Retina Conference	January 2011
<b>Schimel AM,</b> Gregori N, Murray T. Primary Intraocular Lymphoma. Bascom Palmer Eye Institute, Grand Rounds	December 2010
<b>Schimel AM.</b> The Aging Eye: A review of ocular disease and management in the elderly population. Intensive Geriatric Training Conference Guest Speaker	October 2010
<b>Schimel AM.</b> Management of Macular Edema Following Retinal Vein Occlusions: Bascom Palmer Eye Institute, Retina Conference	August 2010
<b>Schimel AM,</b> Apte RS. A Novel Thiol Antioxidant, <i>N</i> -Acetylcysteine Amide, Prevents Retinal Degeneration. Paper Presentation at ARVO	May 2010
<b>Schimel AM.</b> Diabetic Eye Disease. Volunteer lectureship through “Community Health In Partnership Services” (CHIPS) to large groups of diabetics in the Saint Louis area	2008-2010
<b>Schimel AM.</b> The Potential Role of <i>N</i> -Acetylcysteine Amide in the Prevention and Treatment of Retinal Degeneration. AUPO/RPB Resident and Fellow Research Forum	January 2010
<b>Schimel AM,</b> Apte RS. <i>N</i> -Acetylcysteine Amide: What We Have Learned about its Potential Role in the Prevention of Retinal Degeneration including RP and ARMD. Washington University Department of Ophthalmology, Resident Research Symposium	June 2009
<b>Schimel AM,</b> Shepherd JB, Grand MG. Acute Multifocal Neuroretinopathy. Washington University Department of Ophthalmology, Grand Rounds	May 2009
<b>Schimel AM,</b> Falkenberry S, Kass MA. Suprachoroidal Hemorrhage. Washington University Department of Ophthalmology, Grand Rounds	April 2009
<b>Schimel AM,</b> Rao PK. Fluorescein Angiography Weekly Conference Washington University Department of Ophthalmology/Barnes Retina Institute	Sept.-Nov. 2008
<b>Schimel AM,</b> Smith M, Harbour JW. Melanocytic Tumors of the Eye. Washington University Department of Ophthalmology, Grand Rounds	October 2007

**OTHER**

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Spanish speaking  
Enjoy golf, bicycling, and basketball  
Play guitar and piano and appreciate live music

Updated November 28, 2012