

Rafael L. Ufret-Vincenty, MD

Assistant Professor
Department of Ophthalmology
University of Texas Southwestern Medical Center
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EDUCATION:

- June 2006 **Vitreo-Retinal Fellowship** – Cole Eye Institute, The Cleveland Clinic
- June 2004 **Residency in Ophthalmology**– Massachusetts Eye and Ear Infirmary, Harvard Medical School Ophthalmology Residency Program.
- June 2001 **Internship** - Transitional year program – University District Hospital, UPR School of Medicine
- June 2000 **M.D.** - Summa Cum Laude - UPR School of Medicine
- May 1994 **B.S. in Chemistry** - Summa Cum Laude UPR at Humacao
- May 1990 **Preparatory School** - Valedictorian Colegio San Antonio Abad

RESEARCH EXPERIENCE:

- August 2006- Present Generating mouse models of AMD to study of the immunopathogenesis of AMD.
- March 2005-June 2006 Development of an animal model of AMD in collaboration with Dr. Victor Perez at the Cole Eye Institute of the Cleveland Clinic.
- May 2003-June 2004 Research on potential retinal glues at the Massachusetts Eye and Ear Infirmary, Harvard Medical School. Mentor: Dr. Donald D’Amico.
- June 1996-June 1998 **HHMI-NIH Research Scholars program.** Projects focusing in the etiology and pathophysiology of autoimmune processes, using a murine model of CNS autoimmunity in the laboratory of Dr. Stefan Brocke, Neuroimmunology Branch, NINDS, National Institutes of Health.
- June-July 1995 **Viral Persistence and Demyelination in CD4/CD8 knockouts of susceptible and resistant strains of a murine model of Multiple Sclerosis.** Summer research project at the Mayo Clinic.
- June-August 1993 **Development of a reconstitution assay for membrane proteins of the Cromaffin Granules.** Laboratory of Dr. Guido Guidotti, Harvard University.
- June 1992-May 1993 MARC scholar - UPR at Humacao. **"Partition constants of semiquinones distributed between multilamellar lecithin vesicles and aqueous buffer obtained by spin-broadening techniques"**- Mentor: Dr. Antonio Alegria

HONORS:

- June 2000 Faculty Award to the Most Distinguished Medical Student University of Puerto Rico School of Medicine
- June 2000 Dr. Ramon Ruiz Arnau Award for Clinical Research University of PuertoRico School of Medicine

June 1999-May 2001	Alpha Omega Alpha Student Director at the National Board of Directors
1995-2000	Honor roll - UPR School of Medicine
1994-96	Dean's list
June 1994	Aguedo Mojica Medal for leadership and academic excellence , University of Puerto Rico at Humacao.
1991-92,1992-93 1993-94	Most outstanding science student - UPR at Humacao
1991-1994	Who's Who, Dean's List

BIBLIOGRAPHY:

Peer-reviewed publications:

- 2011 Zhou Q, Gallagher R, **Ufret-Vincenty R**, Li X, Olson EN, Wang S. Regulation of angiogenesis and choroidal neovascularization by members of microRNA-23~27~24 clusters. *Proc Natl Acad Sci U S A*. 2011 May 17;108(20):8287-92.
- 2010 **Ufret-Vincenty RL**, Aredo B, Liu X, McMahon A, Chen PW, Sun H, Niederkorn JY and Kedzierski W. Transgenic mice expressing variants of complement factor H develop AMD-like retinal findings. *Invest Ophthalmol Vis Sci*. 2010 Nov;51(11):5878-87.
- 2008 Hollyfield JG, Bonilha VL, Rayborn ME, Yang X, Shadrach KG, Lu L, **Ufret RL**, Salomon RG, Perez VL. Oxidative damage-induced inflammation initiates age- related macular degeneration. *Nat Med*. 2008;14(2):194-8.
- 2008 Kovoor TA, Bahl D, Singh AD, **Ufret-Vincenty RL**. Bilateral Isolated Choroidal Melanocytosis. *Br J Ophthalmol*. 2008; 92(7):892.
- 2007 **Ufret-Vincenty RL**, Singh RP, Lowder CY, Kaiser PK. Cytomegalovirus Retinitis After Fluocinolone Acetonide Implant. *Am J Ophthalmol*. 143(2):334-5.
- 2004 **Ufret-Vincenty RL**, Miller JW, Gragoudas ES. Photosensitizers in photodynamic therapy of choroidal neovascularization. *Int Ophthalmol Clin*. 44(3):63-80.
- 2002 **Ufret-Vincenty RL**, Chen RJ, and Azar DT. Corneal Flap Displacement and Drift in LASIK: Comparison of Hansatome and Automated Corneal Shaper Microkeratomes. *Am J Ophthalmol* 134(5):701-6.
- 1998 **Ufret-Vincenty RL**, Quigley L, Tresser N, Pak SH, Gado A, Hausmann S, Wucherpfennig KW, and Brocke S. 1998. In vivo survival of viral antigen-specific T cells that induce experimental autoimmune encephalomyelitis. *J. Exp.Med.* 188:1725-1738.
- 1993 Alegria AE, Rivera S, Hernandez M, **Ufret R** and Morales M. Membrane-buffer partition coefficients of semiquinones using the spin-broadening technique. *J. Chem. Soc. Faraday. Trans.*, 89:3675-3679.

Book chapters:

- 2010 **Ufret-Vincenty RL**. Immunobiology of Age-related Macular Degeneration. In: Hodges R,

Dartt D, and Dana R, eds. Encyclopedia of the Eye. Elsevier, 2010. 2:279-284.

2006 **Ufret-Vincenty RL**, Lerner LE and Kaiser PK. Non-Neovascular Age-Related Macular Degeneration. In: Huang D, Kaiser PK, Lowder CY and Traboulsi EI, eds. Retinal Imaging. Philadelphia, PA: Mosby, 2006: 145-151.

POSTERS:

ARVO 2010:

B. Aredo, A. McMahon, P. Chen, J.Y. Niederkorn, L. Hong, R.G. Salomon, W. Kedzierski and **R. Ufret-Vincenty**. AMD-like changes in Cfh transgenic mice: can antigen-specific immunity enhance the phenotype?

ARVO 2009:

Ufret-Vincenty RL, Aredo B, Liu X, McMahon A, Chen P, Sun H, Botto M, Niederkorn JY and Kedzierski W. Towards a model of AMD: a chimeric transgenic complement factor H molecule leads to drusen in mice.

ARVO 2008:

Ufret-Vincenty RL, Aredo B, McMahon A, Chen P, Niederkorn JY, Kedzierski W. Generation and characterization of chimeric complement factor H transgenic mice with an “at-risk” mutation for AMD.

Funding:

12/2009-12/2012 Disease Oriented Clinical Scholars program. Title: Deciphering the role of complement and the immune system in Age-related Macular Degeneration using a novel transgenic mouse model.