

**Rafael L. Ufret-Vincenty, MD**

Assistant Professor  
Department of Ophthalmology  
University of Texas Southwestern Medical Center  
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Dallas, TX 75390-9057

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	<b>Honor roll</b> - UPR School of Medicine
1994-96	Dean's list
June 1994	<b>Aguedo Mojica Medal for leadership and academic excellence</b> , University of Puerto Rico at Humacao.
1991-92,1992-93 1993-94	<b>Most outstanding science student</b> - UPR at Humacao
1991-1994	Who's Who, Dean's List

#### BIBLIOGRAPHY:

##### Peer-reviewed publications:

- 2012 Johnson S, Tan L, van der Veen S, Caesar J, Goicoechea De Jorge E, Harding RJ, Bai X, Exley RM, Ward PN, Ruivo N, Trivedi K, Cumber E, Jones R, Newham L, Staunton D, **Ufret-Vincenty R**, Borrow R, Pickering MC, Lea SM, Tang CM. Design and Evaluation of Meningococcal Vaccines through Structure-Based Modification of Host and Pathogen Molecules. *PLoS Pathog.* 2012 Oct;8(10):e1002981. In print.
- Xin-Zhao Wang C, Zhang K, Aredo B, Lu H, **Ufret-Vincenty RL**. Novel method for the rapid isolation of RPE cells specifically for RNA extraction and analysis. *Exp Eye Res.* 2012;102:1-9.
- 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 Kovoov 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.

FUNDING:

9/2012- 9/2017 – 1R01EY022652-01: Role of complement factor H and immunity in AMD: a novel transgenic model.

9/2009-9/2012 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.