

# CURRICULUM VITAE

## **PERSONAL INFORMATION**

Kristianna M. Fredenburg, MD, PhD  
University of Florida College of Medicine  
Department of Pathology, Immunology and Laboratory Medicine  
1395 Center Drive  
Dental Building, D6-27  
Gainesville, FL 32610  
Email:kfredenburg@pathology.ufl.edu

## **EDUCATION**

2008	University of North Carolina School of Medicine Chapel Hill, NC	MD
2002	North Carolina State University College of Veterinary Medicine Raleigh, NC	PhD
1994	University of Rochester, Rochester, NY	BA

## **POSTGRADUATE EDUCATION AND EMPLOYMENT**

2015-present	Assistant Professor, University of Florida Department of Pathology, Immunology, and Laboratory Medicine, Gainesville, FL.
2013-2015	Adjunct Clinical Postdoctoral Associate in Anatomic Pathology, University of Florida Department of Pathology, Immunology, and Laboratory Medicine, Gainesville, FL.
2009-2013	Resident Physician, University of Florida, Department of Pathology, Immunology and Laboratory Medicine, Gainesville, FL.
2002-2004	Postdoctoral Associate, Duke University Medical Center, Department Molecular Genetics and Microbiology, Durham, NC (under Douglas Marchuk, PhD).
1996-2002	Graduate Assistant, North Carolina State University, College of Veterinary Medicine, Department of Molecular Biomedical Sciences, Raleigh, NC (under Janice Allen, PhD).
1994-1996	Research Assistant, University of Rochester Strong Memorial Hospital, Department of Dermatology, Rochester, NY (mentor Lowell A. Goldsmith, MD).

## **LICENSURE AND CERTIFICATIONS**

2014	State of Florida Medical License
2013	Diplomate, American Board of Pathology, Anatomic and Clinical Pathology

## **PROFESSIONAL MEMBERSHIPS**

2016	American Cancer Society, Active Member
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- 2015 United States and Canadian Academy of Pathology
- 2009 College of American Pathologist
- 2009 Florida Society of Pathologist

**PROFESSIONAL COMMITTEES**

- 2016 Executive Committee Member, MD/PhD Training Program, University of Florida College of Medicine.
- 2016 Diversity Committee, University of Florida College of Medicine.
- 2016 Faculty Search Committee, University of Florida Department of Otolaryngology

**RESEARCH FUNDING**

- 2016 Title: Regulation of Early Pancreatic Cancer Development  
(PENDING SUPPORT)  
Agency: NIH 1R01CA219165-01  
Amount: \$1,875,000  
Dates: 7/17 to 6/22  
Principal Investigator: Schmittgen, T.D.  
Co-Investigators: **Fredenburg, KM.**, Grippo, P.A., Liu, X., Mo, X
- 2016 Title: REST/NRSF Regulation of Early Pancreatic Cancer Development  
(PENDING SUPPORT)  
Agency: State of Florida Department of Health  
Amount: \$1,233,812  
Dates: 7/17 to 6/20  
Principal Investigator: Schmittgen, T.D.  
Co-Investigators: **Fredenburg, KM.**, Liu, X.
- 2015 Title: The Investigation and Comparative Analysis of EPS8 in Oral Cavity and Oropharyngeal Squamous Cell Carcinoma, Clinical Research Committee.  
(FUNDED)

**AWARDS AND HONORS:**

- 2013 "Mutational Analysis of EGFR-negative Lung Adenocarcinomas using Next Generation Sequencing." University of Florida Clinical Research Committee Grant.
- 2005 "Monitoring of Acute HIV Screening at North Carolina Tertiary Care Facility" and "Development and Assessment of Early Detection Methods for Screening Acute HIV". University of North Carolina School of Medicine Center of Excellence Research Grant.
- 2005 Community Outreach Fund, American Medical Association
- 2004 Howard-Avery Tuition Scholarship, University of North Carolina School of Medicine
- 2002 Travel Award, Association of Research and Vision in Ophthalmology (ARVO)
- 2000 Research Training Awardee, Marine Biological Laboratories in Woods Hole, MA

- 2000 Top African American Graduate Student, North Carolina State University (NCSU) College of Veterinary Medicine
- 2000 Awardee, NCSU Biotechnology Travel
- 2000 Best Oral Presentation, NCSU College of Veterinary Medicine Research Forum
- 1998 Best Poster Presentation, NCSU Physiology Research Forum

### **MENTORSHIP**

- 07/2014 Leanne Dumeny (3<sup>rd</sup> year MD/PhD Student)
- 10/2016 Emily Winesett (1<sup>st</sup> year MD/PhD Student)

### **EDUCATIONAL ACTIVITIES**

- 2016 Dental 6350, Cancer Lecture Series, Primary Lecturer
- 2015 Collaborative Learning Group Faculty Leader, First-Year Medical School Class.
- 2015 Medical Student Teaching Laboratories, Faculty Assistant.
- 2009 Resident Assistant, First and Second Year Medical Student Teaching Laboratory University of Florida Department of Pathology and Laboratory Medicine.
- 2006 Educator, UNC Student National Medical Association, Health Profession Recruitment Exposure Program (HPREP) and Youth Science Enrichment Program (YSEP)
- 2005 Community Outreach Coordinator, UNC School of Medicine, Bloomer Hill People's Clinic, Whitakers, NC
- 2001 Teaching Assistant, NCSU College of Veterinary Medicine Summer Course "Introduction to Molecular Biology"

### **PEER-REVIEWED PUBLICATIONS AND ABSTRACTS**

**Fredenburg, KM.** Morris CG, Whitlock J, Kirwan J, Mendenhall WM. The continual relevance of race in the treatment and survival outcomes of pharyngeal squamous cell carcinoma: a follow-up study. *in preparation.*

Coughlin KC, Weiss JP, **Fredenburg KM**, Justice JM (2016) Slow-growing infiltrating sinonasal mass. *JAMA-Otolaryngology*, *accepted.*

Seay B, Smith R, Villalta-Delgado S, **Fredenburg KM**, Hasan-Abu M. "Pulmonary Hemosiderosis and Fibrosis in Trisomy 21" CHEST Annual Meeting October, 2016.

Coughlin KC, Weiss JP, **Fredenburg KM**, Harrell D, Justice JM (2016) "A Rare Case of Biphenotypic Sinonasal Sarcoma." American Rhinologic Society 62<sup>nd</sup> Annual Meeting. September, 2016.

Baskin M, Patel V, **Fredenburg K**, Chedda N. "Spindle Cell Lipoma of the Supraglottis: Case Report and a Review of the Literature." Combined Otolaryngology Spring Meeting (COSM), Chicago, IL 2016.

Kharod S, Yeung A, **Fredenburg K**, Greenwalt J. (2015). Cervical cancer with a rare umbilical metastases to prior surgical site. *Int J Surg Case Rep.* 2015 Oct 20; 17:8-11.

Christopherson K, Reisman DN, **Fredenburg K**, DeJesus R, Mendenhall WM. (2015). Base of tongue squamous cell carcinoma with infiltrative bone marrow carcinomatosis after definitive chemoradiation: a case report. *Head Neck.* 2015 Jun 3. doi: 10.1002/hed.24155

Iovine, NM, Morris GJ, **Fredenburg K**, Rand K, Alnuaimat H, Lipori G, Brew J, Lednicky JA (2015). Increased severity of H1N influenza in the 2013-2014 influenza season. *Emerging Infectious Disease.* 21(14):664-667

**Fredenburg KM** and Chan EKL (2015). Autoantibodies and microRNA world. *Frontiers in Immunology* published March 11 2015 doi: 10.3389/fimmu.2015.00110

**Pittman KM**, Losken HW, Kleinman ME, Marcus JR, Blei F, Gurtner GC, and Marchuk DA (2006) No evidence for maternal-fetal microchimerism in infantile hemangioma: a molecular genetic investigation. *J Invest Dermatol.* Nov;126(11): 2533-8.

**Pittman KM**, Crow-MacMillan LA, Peter BP, and Allen J.B. (2002) Nitration of manganese superoxide dismutase during ocular inflammation. *Exp Eye Res.* Apr;74(4): 463-71.

**Pittman KM.** (2002) Exploring the regulation of inducible nitric oxide synthase and the effects of nitric oxide production in endotoxin-induced uveitis. 2002 repository.lib.ncsu.edu/ir/bitstream/1840.16/3017/1/etd.pdf

**Pittman KA** and Allen JB (2002) TGF $\beta$ 2/Smad signaling in the iris/ciliary body during ocular inflammation. *Invest Ophthalmol Vis Sci.* 43: E-abstract 1554.

Allen JB, **Pittman KA**, Keng T, Gilger BC, and Privalle CT (2002) Nitric oxide scavenger AMD6221 suppresses endotoxin-induced uveitis in rabbits. *Invest Ophthalmol Vis Sci* 43: E-Abstract 3976

Allen JB and Pittman KA (2001). Expression of SMAD7 in experimental uveitis. *J Leukocyte Biol.* (2001),71.

**Pittman KA**, Macmillan-Crow LA, Peters BP, Allen JB (2001) Evidence for peroxynitrite production in endotoxin-induced uveitis (EIU): Identification of nitrated mnSOD. *Invest. Ophthalmol. Vis. Sci.* 42(4): S916

Allen JB, **Pittman KA**, Facemire CT Jaffe GJ, Jobin C. (2001) TGF $\beta$  inhibits NF-kB dependent gene expression in rat/iris ciliary body and rabbit pigmented epithelial cells. *Invest. Ophthalmol Vis. Sci.* 42(4): S917

Zareba G., **Pittman KA**, Gelein R., Plotzke K.P., Morrow P.E., Utell M.J. (1996) Application of human skin/nude mouse model for percutaneous absorption studies of octamethylcyclotetrasiloxane(D4). *The Toxicologist.* 30s(1). 866

Zareba G, Goldsmith LA, **Pittman KA** (1992). Characteristics of human scalp hair grown on nude mice. *Proceedings of III European Conference Hair Research Society.* 1992 Berlin, Germany, 88.

## **LOCAL AND NATIONAL PRESENTATIONS**

"Identification and Validation of Chimeric Antigen Receptor (CAR) T Antigens for Head and Neck Cancer Therapy". March 2016. Park, YP, Bennett KB, Chang LJ, **Fredenburg KM**, and Chan EKL. University of Florida College of Dentistry Spring Symposium, Gainesville, FL.

"Mutational Analysis of EGFR-negative Lung Adenocarcinomas using Next Generation Sequencing" June 2014: Oral Presentation, University of Florida Department of Pathology Resident Research Day, Gainesville, FL.

"Modulation of T cell Responsiveness Using Drugs Selected to Bind MHC Class I HLA Molecule, HLA2" June 2013: Oral Presentation, University of Florida Department of Pathology Resident Research Day Gainesville, FL.

"Mutational Analysis of Squamous Cell Lung Cancer Tissue with an Unexpected Response to Erlotinib" June 2011: Oral Presentation, University of Florida Department of Pathology Resident Research Day, Gainesville, FL.

"Investigating the Molecular and Genetic Basis of Infantile Hemangiomas" May 2004: Oral Presentation, Duke University Department of Molecular Genetics and Microbiology Postdoctoral Research Seminar, Durham, NC.

"TGFb2/Smad Signaling in the Iris/Ciliary Body during Ocular Inflammation". May 2002: Poster Presentation, ARVO Conference, Ft. Lauderdale, FL.

"Evidence for Peroxynitrite Production in Endotoxin-Induced Uveitis (EIU): Identification of nitrated mnSOD. May 2001: Poster Presentation, ARVO Conference, Ft. Lauderdale, FL.

"Induction of MnSOD in Endotoxin-Induced Uveitis" April 2000: Oral Presentation, NCSU College of Veterinary Medicine Research Forum, Raleigh, NC.

"The Effects of Modified Vitamin C Formulations on Phototoxic Insults to Porcine Skin" 1998: Poster Presentation, NCSU Physiology Research Forum, Raleigh, NC.