Curriculum Vitae

Thomas R. Sanford, MD

Personal Information

3635 Vista Ave, 6FDT • St. Louis, Missouri 63110
Phone: 314-577-8884
Fax: 314-268-5111
Email: thomas.sanford@health.slu.edu

Current Position, Department of Otolaryngology–Head and Neck Surgery Saint Louis University

Associate Professor 07/10–Present

Education and Training

Resident in Otolaryngology 1992–1996
University of Kansas Medical Center, Kansas City, Kansas

Internship in General Surgery 1991–1992
St. Luke's Hospital, St. Louis, MO

Fellowship in Pathology 1988–1989
University of Kansas School of Medicine, Kansas City, Kansas

Doctor of Medicine 1985–1991
University of Kansas School of Medicine, Kansas City, Kansas

Master of Arts in Biology 1982–1985
University of Missouri, Columbia, Missouri

Bachelor of Arts in Biology 1978–1982
University of Missouri, Columbia, Missouri

Previous Professional Experience

Assistant Professor 07/05-06/10
Saint Louis University, St. Louis, MO

Private Practice 10/02–07/05
Topeka ENT, Topeka, KS

Assistant Professor 09/96–10/02
Veterans Administration Medical Center, Department of Surgery, Kansas City, MO

Assistant Professor 07/96–10/02
University of Kansas Medical Center, Department of Otolaryngology, Kansas City, KS

Assistant Professor 07/96–10/02
Truman Medical Center, Department of Surgery Director, Kansas City, MO

Hospital and Clinical Staff Appointments

SSM Health Saint Louis University Hospital, St. Louis, MO
Mercy Medical Center Saint Louis, St. Louis, MO
Cardinal Glennon Children's Hospital, St. Louis, MO

Board Certification

American Board of Otolaryngology	04/97
American Board of Otolaryngology Allergy	09/98

Professional Registration/Licensure

Kansas
Missouri

Professional Committees and Societies

American Academy of Otolaryngology
American Academy of Otolaryngic Allergy
American Head and Neck Society
American College of Surgeons
Alpha Omega Alpha
Sigma Xi Research Society

Honors and Awards

Distinguished Alumni Lecturer, Kansas University	2016
Academic Professor of the Year	2005–2006
Resident teaching award TMC	1997–2002
National's Dean's List	1990
Bailey Award Research in Pathology	1990
Paper, Cold Springs Harbor	1983
N.I.H. Undergraduate Assistantship	1980

Medical Directorship

Otolaryngology allergy clinic St Louis University	2/06–Present
Outreach Clinic General Otolaryngology, Perryville Mo.	3/06–Present

Medical Mission

Honduras	2007

Committees

Trauma Committee	2006–Present
Student Training, Otolaryngology	2006–Present

Research

Master's Degree
Characterization of RNA Polymerase II in C. elegans

Lab Assistant
Analysis of Adenovirus-Encoded DNA Polymerase

Pathology Fellowship
Cytokine Production in the Murine Uterus during Pregnancy
ENT Residency
Molecular Analysis of Afferent Influences of Brainstem Auditory Nuclei of the Chicken

University of Kansas
Molecular Analysis Human Papilloma Infections of the Head and Neck

Saint Louis University
Metagenomic and Immunologic Characterization of Chronic Sinusitis

Research Grants

The Role of Fungal Antigens in Chronic Sinusitis: Co investigator R21 submitted 7/09

Book Chapters

1. **Sanford T.** The Pediatric Allergic Nose. Pediatric Otolaryngology for the Clinician, pp ed. Mitchell R, Pereira P. Humana Press, 2009.

2. Costa D, **Sanford T,** Sindwani, R. Image-Guided Surgery of the Paranasal Sinuses. pp.527-540 ed. Stucker F, Schick B. Springer Press, 2009.

Publications

1. Anderson M, Stokken J, **Sanford T**, Aurora R, Sindwani R. A systematic review of the sinonasal microbiome in chronic rhinosinusitis. Am J Rhinol Allergy. 2016 May;30(3):161-6.

2. Aurora R, **Sanford T**. Host Microbiota Contributes to Health and Response to Disease. Mo Med. 2015 Jul-Aug; 112(4):317-22.

3. Anderson ME Jr, Buchwald ZS, Ko J, Aurora R, **Sanford T.** Patients with pediatric obstructive sleep apnea show altered T-cell populations with a dominant TH17 profile. Otolaryngol Head Neck Surg. 2014 May;150(5):880-6.

4. Aurora R, Chatterjee D, Hentzleman J, Prasad G, Sindwani R, **Sanford T**. Contrasting the microbiomes from healthy volunteers and patients with chronic rhinosinusitis. JAMA Otolaryngol Head Neck Surg. 2013 Dec;139(12):1328-38.

5. Costa D, **Sanford T,** Janner C, Cooper M, Sindwani R. Radiographic and anatomic characterization of nasal swell body. Arch Otolaryngol Head Neck Surg. 2010 Nov;136(11):1107-10.

6. Fettman N, **Sanford T**, Sindwani R. Surgical management of the deviated septum: techniques in septoplasty. Otolaryngol Clin North Am. 2009;42(2):241-52.

7. **Sanford T**. Allergic Rhinitis in Children. Mo Med. 2008 May-Jun;105(3):230-4.

8. Rouse D, Park DL, **Sanford T.** Allergy Symptom Response to Intra-Dermal Testing (IDT) Based Immunotherapy: a retrospective study of clinical practice. Otolaryngology-Head and Neck Surg. 2004;131(3):220-224.

9. Jaeckel E, Raja S, Tan J, Das S, Dey S, Girod D, Tsue T, **Sanford T.** Correlation of Expression of Cyclooxygenase-2 **,** Vascular Endothelial Growth Factor, and Peroxisome Proliferator-Activated Receptor delta with Head and Neck Squamous Cell Carcinoma. Arch Otolaryngol Head Neck Surg. 2001;127:1253-1259.

10. Robinson AB, Das SK, Bruegger DE, Hoover LA, **Sanford T.** Characterization of Cyclooxygenase in Laryngeal Papilloma by Molecular Techniques. Laryngoscope. 1999 Jul;109(7 Pt 1):1137-41.

11. Kakarapudi VV, Lankachandra K, **Sanford T.** Extramedullary Plasmacytoma in the Anterior Cervical Region. Otolaryngology- Head and Neck Surgery. 1999;121:296-7.

12. Glynn M, Hoover L **Sanford T**. Characterization of Human Papilloma Virus (HPV) in Airway Papillomas by Polymerase Chain Reaction (PCR) Pre-Laser and Post-Laser Therapy. Annals of Otology, Rhinology and Laryngology. 1999;108:1073-1077.

13. De M, **Sanford TR,** Wood GW. Expression of interleukin 1, interleukin 6 and tumour necrosis factor alpha in mouse uterus during the peri-implantation period of pregnancy. J Reprod Fertil. 1993 Jan;97(1):83-9.

14. De M, **Sanford T**, Wood G. Detection of II-1, IL-6 and Tumor Necrosis Factor Alfa in the Uterus during the Second Half of Pregnancy in the Mouse. Dev Biol. 1992 May;151(1):297-305.

15. **Sanford TR**, De M, Wood GW. Expression of colony-stimulating factors and inflammatory cytokines in the uterus of CD1 mice during days 1 to 3 of pregnancy. J Reprod Fertil. 1992 Jan;94(1):213-20.

16. Wood G, De M, **Sanford T**, Chaudhuri R. Macrophage Colony Stimulating Factor Controls: Macrophage Recruitment to the Cycling Uterus. Developmental Biology. 1992;Vol. 152, 336-343.

17. De M, **Sanford T**, Wood G. Interleukin-1 and Tumor Necrosis Factor Alfa are Produced in the Mouse Uterus during the Estrous Cycle. Developmental Biology. 1992;Vol. 151, 297-305.

18. Mauser L, Fleming R, Greenwood J, **Sanford T**, Wood G. Characterization of Cells Comprising Murine Thymocyte Multicellular Complexes. J. Immunology. 1989; Vol. 141, 2221-2231.

19. Sasguri Y, **Sanford T**, Aguirre P, Padmanabhan P. Immunological Analysis of 140-kDa Adenovirus-Encoded DNA Polymerase in Adenovirus Type 2 Infected Hela Cells. Virology. 1987;Vol. 160, 389-399.

20. **Sanford T**, Prenger J, Golomb, M. Purification and Immunological Analysis of RNA Polymerase II from C. elegans. Journal of Biological Chemistry. 1984;Vol. 206, 8064-8069.

21. **Sanford T**, Colombo M, Riddle D. RNA Polymerase II from Wild Type and Amanitin-resistant Strains of C. elegans. Journal of Biological Chemistry. 1983;Vol. 258, 12804-12809.

Presentations

1. New Trends in Otolaryngology Allergy. Otolaryngology Basic Course, Boston, MA; *2004*.

2. Features of Common Antigens. Otolaryngology Basic Course, Boston, MA; *2004*.

3. Environmental Control of Allergy. Otolaryngology Basic Course, Boston, MA; *2004*.

4. Ear/Nose and Throat Problems in Sjogren's Syndrome. Education and Support Group of KC; *3/01*.

5. Sinus/Eye/Ear in Wegeners Granulomatosis. Forth International Wagners Symposium; *10/00*.

6. Characterization of Cyclooxygnase and PPR Delta in Head and Neck Cancer. Triological Society Middle section; *01/00*.

7. Characterization of Cyclooxygenase in Laryngeal Papilloma by Molecular Techniques. Triological Society Middle Section; *1999*.

8. Instructional Course in Allergy. American Academy of Otolaryngic Allergy; *1999*.

9. Endoscopic Approach to Anterior Skull Base Tumors. Video: American College of Surgeons; *1998*.

10. The Significance of the Cough Reflex in Determining Return of Function in Recurrent Laryngeal Nerve Damage. Southern Medical Society; *1996*.

11. Characterization of Human Papilloma Virus in Airway Papillomas by Polymerase Chain Reaction Pre-laser and Post-laser Therapy. Triological Society Middle Section; 1996.

12. Characterization of Human Papilloma Virus in Airway Papillomas by Polymerase Chain Reaction Pre-laser and Post-laser Therapy. Triological Society Middle Section; *1996*.

13. Detection of Human Papilloma Virus in Specific Subsets of Nasal Papilloma Using Ultraviolet Radiation Fractionation and Polymerase Chain Reaction. Triological Society Southern Section; *1995*.

Invited Talks/Grand Rounds

1. **Microbiome in Sinusitis.** Department of Otolaryngology, Kansas University; *2016.*

2. **The Sinonasal Microbiome in Health and Disease**. Grand Rounds, Department of Otolaryngology - Head and Neck Surgery, Saint Louis University; *2016.*

3. **Chronic Rhinosinusitis Etiology Pathophysiology Update**. Grand Rounds, Department of Otolaryngology - Head and Neck Surgery, Saint Louis University; *2015.*

4. **Medical Marijuana: What an Otolaryngologist Might Want to Know**. Grand Rounds, Department of Otolaryngology - Head and Neck Surgery, Saint Louis University; *2014.*

5. **Inflammation in Chronic Rhinosinusitis**. Grand Rounds, Department of Otolaryngology - Head and Neck Surgery, Saint Louis University; *2013.*

6. **Tonsil Hypertrophy Morphology and Immunology**. Grand Rounds, Department of Otolaryngology - Head and Neck Surgery, Saint Louis University; *2012.*

7. **Metagenomics and Sinusitis**. Grand Rounds, Department of Otolaryngology - Head and Neck Surgery, Saint Louis University; *02/09.*

8. **New trends in Otolaryngic Allergy**. Update Meeting, Saint Louis University - Department of Otolaryngology; *03/08*.

9. **Biofilms in Otolaryngology.** Grand Rounds, Saint Louis University - Department of Pediatrics; *05/07*.

10. **Basics of General Otolaryngology.** Medicine Resident Lectures, Department of Otolaryngology - Head and Neck Surgery, Saint Louis University; *04/07*.

11. **Surgical Management of Sinusitis**. Annual Symposium on Rhinosinusitis, Saint Louis University; *05/07*.

12. **Otolaryngic Allergy**. Grand Rounds, Saint Louis University School of Medicine; *11/06*.

13. **Role of Fungi in Rhinosinusitis**. Grand Rounds, Saint Anthony's Medical Center; *10/06*.

14. **Techniques in Endoscopic Sinus Surgery**. Midwest Resident Update in Rhinology, Saint Louis University School of Medicine; *08/06*.

15. **Surgical Management of Rhinosinusitis.** Annual Symposium on Rhinosinusitis, Saint Louis University Practical Anatomy Course; *05/06*.

16. **Sinus Anatomy & Physiology.** Annual Symposium on Rhinosinusitis, Saint Louis University Practical Anatomy Course; *05/06.*

17. **ENT Review for Medicine Residents**. Saint Louis University - Department of Internal Medicine; *04/06.*

18. **Update on Sinusitis – A Rhinotologist's Perspective**. Ninth Annual Advanced Practice Nursing Conference, Saint Louis University School of Medicine; *02/06.*

19. **Molecular Biology of Head and Neck Cancer**. Scientific Program Alumni Weekend, Saint Louis University School of Medicine; *10/05.*

20. **Otolaryngology Basic Allergy Course.** Faculty Lecture, Department of Otolaryngology - Head and Neck Surgery, Saint Louis University; *03/01.*

21. **Head and Neck Cancer**. Correlative Medicine Series, UMKC; *11/00.*

22. **Rhinosinusitis**. Correlative Medicine Series, UMKC; *11/00.*

23. **Rhinosinusitis**. Medicine Resident Lectures, Department of Otolaryngology - Head and Neck Surgery, Saint Louis University; *05/00.*

24. **ENT allergy and Rhinosinusitis.** Family Practice, KU; *04/00.*

25. **Food Allergy – History/Diagnosis Instructional Course**. Otolaryngic Allergists; *1999.*

26. **Otolaryngic Allergy.** Truman East Medical Center Lecture; *1999.*

27. **Endoscopic Techniques and Tips in Anterior Skull Base Surgery.** Otolaryngic and General Surgeons; *1998.*

28. **Head and Neck Cancer.** University of Missouri Kansas City; *97-99.*

29. **Otolaryngic Allergy.** University of Missouri Kansas City; *1997.*