

Chad A. Zender, MD

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E d u c a t i o n a n d E m p l o y m e n t

Loyola University Medical Center

July 1, 2007 to Present

Assistant Professor Department of Otolaryngology-Head and Neck Surgery,

Position in the division of Head and Neck Surgery includes treating patients with benign and malignant tumor of the head, neck and skull base. A wide range of reconstructive techniques are utilized including microvascular free tissue transfer. The position also includes teaching medical students, residents and developing clinical and translational research protocols.

Vanderbilt University Medical Center

July 1, 2006 to June 30th 2007

Microvascular-Head and Neck Surgery Fellowship

Fellowship training in head and neck surgery, skull base surgery and microvascular reconstruction. A significant amount of training was also devoted to thyroid and parathyroid surgery. The majority of the year was spent training with Dr's Netterville, Burkey and Sinard.

Loyola University Medical Center

July 1 2001 to June 30 2006

Otolaryngology/Head and Neck Surgery Resident

Residency training in all the core areas of otolaryngology which includes 12 months on the head and neck service as well as a research block in the Burn/Shock trauma center. Completed general surgery internship during this time period at LUMC.

Wright State University School of Medicine

August 1997 to May 2001

Medical Degree (MD)

AOA as a junior, received an award for an essay on Y. Pestis, American Heart Association grant to study the mitochondrial protein cytochrome oxidase, participated in Student to Student (elementary school lectures on medical topics), was elected to the position of school of medicine representative to the student council and co-authored a manuscript that helped the university obtain legal representation for students on campus.

Bowling Green State University

August 1994 to May 1997

Bachelor of Science in Biochemistry

Graduated Cum Laude, National Honor Society member, Dean's list, and chemistry/biology tutor.

Baldwin Wallace College

September 1993 to June 1994

Major-Psychology/Sociology

GPA of 3.34 (4.00), John Suma wrestling award, varsity wrestling letter, and community outreach volunteer/worker.

Research

Endocrinology Research

September 1995 to December 1996

Bowling Green, OH

Research Assistant for Dr. Lee Meserve

Studying the effects of PCBs on rat thyroids, which included: Animal care and dissection, homogenization, acetyl Co-A assay, and journal club.

Arthur James Cancer Institute

May 1996 to August, 1996

Columbus, OH

Lab Assistant/Volunteer for Dr. David Schuller and Dr. James Lang

Helped analyze the expression level of cyclin D1 in head and neck cancer, observed surgeries, and patient care/transport.

Biochemistry Research

January 1997 to May 1997

Bowling Green, OH

Research Assistant for Dr. William Scovall

Recombinant protein isolation, which included: IMAC (Immobilized metal ion affinity chromatography), SDS-PAGE, Western blots, differential centrifugation and E. coli cell culturing.

Procter and Gamble

May 1997 to August, 1997

Cincinnati, OH

Research Assistant for Dr. Ray Grant

Protein Isolation and Identification which required: Library research, mitochondria isolation from rat heart and kidney, 2D-Gels, NEPHGE Gels, acetone precipitation, Western blotting using I¹²⁸, and hydroxylapatite chromatography. Also performed gel digestion (tryptic) for protein identification using MS/MALDI (protein identification using Mass Spectroscopy).

Wright State University School of Medicine

June 1998 to September 1998

Dayton, OH

Research Assistant for Dr. Lawrence Prochaska

Received an **American Heart Association research grant** to study rat mitochondrial cytochrome oxidase, this involved making liposomes, chromatography, western blots and SDS-PAGE.

Burn-Shock Trauma Center, LUMC

July 2003 to October 2003

Maywood, IL

Research Assistant for Dr. Luisa DiPietro

Investigated the differences in levels of the TGF Beta family in oral cavity and cutaneous wounds in a mouse model. Techniques included creating/modifying a workable wound model, creating tissue homogenates for ELISA techniques, and harvesting wounds for electron microscopy and collagen analysis. **Winner of the Girgis resident research competition 2006 for presenting this data. Second Place at the Chicago Laryngological and Otological Lederer-Pierce research competition.**

Certifications & Organizational Membership

1. Board Certified in Otolaryngology-Head and Neck Surgery
2. Member of the American Academy of Otolaryngology-Head and Neck surgery
3. Member of the American Academy of Facial Plastic and Reconstructive Surgery
4. Member of the American Medical Association

Awards and Honor's

- John Suma Award
- Graduated Cum Laude (Undergraduate)
- 2nd place History of Medicine Essay Competition
- Miami Valley Pathologist Award
- AOA as a Junior
- Academic Achievement Award (Salutatorian in Medical School Class)
- Girgis Resident Research Competition Winner
- 2nd place Lederer-Pierce Chicago Laryngological Otological Resident Research Competition

Publications

1. Provost TL, Juarez de Ku LM, **Zender C**, Meserve LA. **Dose- and age-dependent alterations in choline acetyltransferase (ChAT) activity, learning and memory, and thyroid hormones in 15- and 30-day old rats exposed to 1.25 or 12.5 PPM polychlorinated biphenyl (PCB) beginning at conception.** [Journal Article] *Progress in Neuro-Psychopharmacology & Biological Psychiatry*. 23(5):915-28, 1999 Jul.
2. **Zender CA**, Petruzzelli GJ: **The Skull Base, Paranasal Sinuses and Related Malignancies.** *Current Oncology Reports* 2003 5:147-151
3. **Zender CA**, Petruzzelli GJ: **Why do patients with head and neck carcinoma develop distant metastasis, and can they be prevented?** *Current Opinion in Oto-H&N Surg.* 2005, 13:101-104.
4. **Zender CA**, Petruzzelli GJ: **Skin grafting in oral cavity reconstruction.** *Operative Techniques in Oto-H&N Surg.* 2005, 16:24-27
5. **Zender CA**, Marzo S, Leonetti JP: **Disease of the External Auditory Canal.** In: Gordon B, Hughes, Myles L, Pensak editors. *Clinical Otology*. 3rd ed. New York 2007(in press)
6. Hunt J, **Zender CA**, Burkey BB. **Head and Neck Reconstruction**, in *Practical Head and Neck Surgery*. Petruzzelli GJ, editor. Plural Publishing, Inc, 2007, (in press).
7. **Zender CA**, Marzo SJ, Leonetti JP, Kostidis A, Daefer R. **Head, Neck and Skull Base Neoplasms**, Chapter 140, in *The Interface of Neurology and Internal Medicine*, Biller J, editor, 2007, (in press).

Presentations and Posters

1. **Zender CA**, Petruzzelli GJ: **Malignant Tumors of the Paranasal sinuses, Loyola University Medical Centers Experience.** *Poster at 2003 Academy of Otolaryngology-Head and Neck surgery Meeting. Orlando, Fl*
2. **Zender CA**, Petruzzelli GJ: **Combined modality therapy for advanced tumors of the paranasal sinuses.** *Poster at the 2004 6th International Conference on Head and Neck Cancer. Washington D.C.*

3. **Zender CA, Stankiewicz J: Operative Management of Eosinophilic Polypoid Rhinosinusitis.** *Poster at the 2004 American Academy of Otolaryngologic Allergy. New York, NY*
4. **Zender CA, Marzo S: Nodular Fascitis of the Parotid Gland.** *Presentation at the 2004 Facial Nerve Study Group meeting. New York, NY*
5. **Zender CA, Bier-Laning C, Petruzzelli GJ: The Utility of Positron Emission Tomography (PET) Scanning to Direct Treatment of Head and Neck Cancer.** *Presentation at the 2005 Middle section meeting. Chicago, IL*
6. **Zender CA, Marzo SJ, Leonetti JP, et al: The Identification and Management of Cerebral Spinal Fluid Fistula of the Temporal Bone.** *Presentation at the 2005 North American Skull Base Society Meeting. Toronto, Canada*
7. **Zender CA, Marzo SJ, Leonetti JP: Metastatic non-Small Cell Carcinoma to the Parotid Gland.** *Presentation at the 2005 Facial Nerve Study Group meeting. Los Angeles, CA*
8. **Zender CA, Muzzaffar K, Petruzzelli GJ: Non-Squamous Cell Malignancies of the Oral Cavity and Pharynx.** *Poster presentation at the 2006 middle section meeting. San Diego, CA*
9. **Zender CA, Netterville JL: Tumors of the Cervical Sympathetic Chain.** *Poster Presentation at the 2007 American Head and Neck Society meeting, San Diego, CA*
10. **Zender CA, James L Netterville MD, Shmalbach CE M.D., Burkey BB, Sinard R; Carotid Body Tumors: Evolving Management Based on a 20 Year Experience in the Treatment of 185 Tumors Occurring in 128 patients.** *Presentation at the 2007 American Head and Neck Society meeting, San Diego, CA*

Recommendations

1. **James A. Stankiewicz, M.D. Professor** **Loyola University Medical Center**
Department Chairman, Director - Nasal Sinus Center; Nasal and Paranasal Sinus Disease;
2. **John P. Leonetti, M.D., Professor** **Loyola University Medical Center**
Co-Director - Cranial Base Surgery Center; Otolology; Neurotology; Cranial Base Surgery
3. **James Netterville, M.D., Professor** **Vanderbilt University Medical Center**
Mark C. Smith Professor, Director - Head & Neck Cancer Program
4. **Brian Burkey M.D. FACS, Professor** **Vanderbilt University Medical Center**
Vice Chairman, Program Director

Recommendations are available by request.