

CURRICULUM VITAE

NAME: Aaron Douglas Friedman

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EDUCATION

1994 – 1998 **Bachelor of Arts, Molecular and Cellular Biology**
Bachelor of Arts, Economics
University of California, Berkeley
Berkeley, CA
Summa cum laude – “with highest distinction in general scholarship”

1998 – 2002 **Doctor of Medicine**
Columbia University, College of Physicians and Surgeons
New York, NY

POSTDOCTORAL TRAINING

2002 – 2003 **Internship in General Surgery**
The Cleveland Clinic
Cleveland, OH

2003 – 2008 **Residency in Otolaryngology – Head & Neck Surgery**
The Cleveland Clinic
Cleveland, OH

2008 – 2009 **Fellowship in Laryngeal Surgery & Professional Voice**
Steven Zeitels, MD, FACS (Fellowship director)
Center for Laryngeal Surgery & Voice Rehabilitation
Massachusetts General Hospital / Harvard Medical School
Boston, MA

BOARD CERTIFICATION

2009 **American Board of Otolaryngology-Head and Neck Surgery**

MEDICAL LICENSURE

2008 – Present **Massachusetts**

ACADEMIC APPOINTMENTS

2009 – Present **Instructor**
Harvard Medical School
Boston, MA

HOSPITAL APPOINTMENTS

2008 – Present **Assistant In Surgery**
Department of Surgery, Division of Thoracic Surgery
Massachusetts General Hospital
Boston, MA

AWARDS / HONORS

University of California, Berkeley

- 1994 **Albert Picard Scholarship** – academic excellence.
1994-1998 **Dean’s List** – top 4% of the undergraduate class.
1997 **Alumni Advisor’s Award** – Acacia Fraternity, for leadership.
1998 **Phi Beta Kappa** – lifetime member, honor society for academic excellence.

Columbia University, College of Physicians and Surgeons

- 2001 **National Institutes of Health Institutional Research Service Award**
2001 **Ruth Borenstein Scholarship** – academic excellence/community involvement.

The Cleveland Clinic

- 2005 **AAO-HNSF Core Resident Research Grant** – \$10,000 (6 awarded nationally per year).
2007 **Joseph H. Ogura Resident Research Award, 1st Place** – “Post-Allograft Donor and Recipient Dendritic Cell Trafficking in the Rat Larynx,” *Combined Section Meeting* – Marco Island, FL.
2007 **Presidential Citation for Foreign Body Management** – “Endoscopic management of a chronic esophageal foreign body,” *American Broncho Esophagological Association Meeting* – San Diego, CA.
2007 **Academic Quiz Bowl (The Cleveland Clinic Team), tied for 1st place** – *AAO-HNSF Annual Meeting* – Washington, DC.

Massachusetts General Hospital

- 2008 **Resident Essay Contest, 1st Place** – “Photoangiolytic Treatment of Early Glottic Cancer,” *American College of Surgeons (Mass. Chapter) & Massachusetts Society of Otolaryngology* – Boston, MA.

PROFESSIONAL SOCIETY MEMBERSHIPS

- 1998 – 2002; 2009 – Present American Medical Association
2003 – Present American Academy of Otolaryngology–Head & Neck Surgery
2009 – Present American Board of Otolaryngology, Diplomate

EDITORIAL ACTIVITIES

- 2008 – Present Invited reviewer for *The Laryngoscope*

ADDITIONAL OTOLARYNGOLOGY TRAINING

- 2005 **AO-ASIF Craniomaxillofacial Workshop** – Columbus, OH.
2005 – 2008 **Laser safety courses** – University of Pittsburgh Medical Center; The Cleveland Clinic; Massachusetts General Hospital.
2007 **Technological Advances in Minimally Invasive Thyroid Surgery** – Ethicon Endo Surgery, Inc., Cincinnati, OH.
2008 **Transoral Laser Microsurgery: Management of Head & Neck Cancer** – Drs. Wolfgang Steiner & Bruce Haughey – Washington University School of Medicine, St. Louis, MO.

PEER-REVIEWED PUBLICATIONS

1. **Friedman AD**, Shah JB, Takoudes TG, Haddad J Jr. The role of free radicals in chronic rhinosinusitis. *Arch Otolaryngol Head Neck Surg* 2002;128:1055-7.
2. **Friedman AD**, Bhayani R, Memeo L, Kuriloff DB. Localized laryngeal amyloidosis. *Otolaryngol Head Neck Surg* 2002;127:487-9.
3. **Friedman A**, Batra PS, Fakhri S, Citardi MJ, Lanza DC. Isolated sphenoid sinus disease: etiology and management. *Otolaryngol Head Neck Surg* 2005;133:544-50.

4. **Friedman AD**, Maurer WG, Byrd MC, Cook JR, Lorenz RR. A cytomegalovirus-associated mass lesion presenting with laryngeal obstruction. *Arch Otolaryngol Head Neck Surg* 2006; 132:1375-8.
5. **Friedman AD**, Dan O, Drazba JA, Lorenz RR, Strome M. Quantitative analysis of OX62-positive dendritic cell distribution in the rat laryngeal complex. *Ann Otol Rhinol Laryngol* 2007; 116: 449-456.
6. **Friedman AD**, Dan O, Drazba JA, Lorenz RR, Strome M. Postallograft donor and recipient dendritic cell trafficking in the rat larynx. *Laryngoscope* 2007; 117:1615-21.
7. **Friedman AD**, Cook JR, Scharpf J. Precursor T-cell acute lymphoblastic lymphoma presenting as a tongue mass. *J Otolaryngol Head Neck Surg* 2009; 38: E16-8.
8. Shipchandler TZ, Lott DG, Lorenz RR, **Friedman AD**, Dan O, Strome M. New mouse model for studying laryngeal transplantation. *Ann Otol Rhinol Laryngol* 2009; 118: 465-468.
9. Kwak PE, **Friedman AD**, Lamarre ED, Lorenz RR. Selective reinnervation of the posterior cricoarytenoid and interarytenoid Muscles: an anatomical study. *Laryngoscope – Accepted for publication 6/2009*.
10. Burns JA, **Friedman AD**, Lutch MJ, Hillman RE, Zeitels SM. The value of the 532nm pulsed KTP laser in endoscopic laryngeal surgery. *J Laryngol Otol – Accepted for publication 7/2009*.
11. Zeitels SM, Lopez-Guerra G, Burns JA, Lutch MJ, **Friedman AD**, Hillman RE. Microlaryngoscopic and office-based injection of bevacizumab (Avastin) to enhance 532 nm pulsed-KTP laser treatment of glottal papillomatosis. *Ann Otol Rhinol Laryngol – Accepted for publication 7/2009*.

NATIONAL ORAL PRESENTATIONS

1. “Dendritic cell quantification in the rat larynx.” *AAO-HNS Academy Meeting* – Toronto, Canada, September 2006.
2. “Post-allograft donor and recipient dendritic cell trafficking in the rat larynx.” *Combined Section Meeting* – Marco Island, FL, February 2007.
3. “Endoscopic management of a chronic esophageal foreign body.” *American Broncho-Esophagological Association* – San Diego, CA, April 2007.

REGIONAL ORAL PRESENTATIONS

- “Photoangiolytic treatment of early glottic cancer.” *American College of Surgeons (Mass. Chapter) & Massachusetts Society of Otolaryngology* – Boston, MA, December 2008.

HOSPITAL-BASED ORAL PRESENTATIONS

1. “Spasmodic Dysphonia.” Columbia University, College of Physicians & Surgeons, Department of Otolaryngology, Grand Rounds – July 2001.
2. “Congenital Cysts and Sinuses of the Pediatric Neck.” The Cleveland Clinic, Department of Surgery, Pediatric Surgery Rotation – July 2002.
3. “Unknown Primary Squamous Cell Carcinoma & the Use of PET Scanning.” The Cleveland Clinic, Head & Neck Institute, Grand Rounds – May 2004.
4. “Pulsatile Tinnitus and Jugulotympanic Paragangliomas.” The Cleveland Clinic, Head & Neck Institute, Grand Rounds – May 2005.
5. “Controversies in Pediatric Oral and Pharyngeal Trauma.” The Cleveland Clinic, Head & Neck Institute, Grand Rounds – December 2005.
6. “Adult laryngotracheal stenosis.” The Cleveland Clinic, Head & Neck Institute, Grand Rounds – July 2007.

7. “Anatomy of the recurrent laryngeal nerve and a surgical approach for selective reinnervation in bilateral vocal fold paralysis.” The Cleveland Clinic, Resident Research Day – June 2008.

POSTER PRESENTATIONS

1. **Friedman A**, Batra PS, Fakhri S, Citardi MJ, Lanza DC. Isolated sphenoid sinus disease: etiology and management. *American Rhinologic Society* – New York, NY, September 2004.
2. Lorenz RR, **Friedman AD**, Eliachar I, Langford CA, Mehta AC, Hoffman GS. The risk of pulmonary barotrauma in Wegener’s granulomatosis patients receiving jet ventilation. *Western / Middle Section Meeting* – San Diego, CA, February 2006.
3. **Friedman AD**, Maurer WG, Byrd MC, Cook JR, Lorenz RR. A cytomegalovirus-associated mass lesion presenting with laryngeal obstruction. *Combined Otolaryngological Spring Meeting, American Laryngological Association* – Chicago, IL, May 2006.
4. **Friedman AD**, Dan O, Drazba JA, Lorenz RR, Strome M. Quantitative analysis of dendritic cell distribution in the rat larynx. *Cleveland Transplant Symposium* – Cleveland, OH, June 2006.
5. **Friedman AD**, Cook J, Scharpf J. Precursor T cell acute lymphoblastic lymphoma presenting as a tongue mass. *Canadian Society of Otolaryngology – Head & Neck Surgery Annual Meeting* – Montreal, Canada, May 2007.
6. Shipchandler TZ, Lorenz RR, **Friedman AD**, Dan O, Strome M. A new animal model for studying laryngeal transplantation: mouse. *Southern Section Meeting* – Naples, FL, January 2008.
7. Lutch MJ, **Friedman AD**, Burns JA, Zeitels SM. Submucosal neoplasms of the laryngeal introitus. *Eastern Section Meeting* – Boston, MA, January 2009.

BASIC SCIENCE RESEARCH EXPERIENCE

Columbia University, College of Physicians and Surgeons

- 2001 **Free radicals in a rat model of rhinosinuitis** – laboratory of Dr. Joseph Haddad.
 2001 **Rat facial nerve injury and reanimation** – laboratory of Dr. Jeffrey Ahn.

The Cleveland Clinic

- 2005 – 2006 **Dendritic cells and rat laryngeal transplantation** – laboratory of Dr. Marshall Strome.
 Microvascular surgery, fluorescent immunohistochemistry, confocal microscopy, cell culture, flow cytometry.

LEADERSHIP / TEACHING EXPERIENCE

University of California, Berkeley

- 1996 **Undergraduate Student Instructor, Biology 1A course**
 1996-1997 **Chapter Treasurer / Executive Committee Member, Acacia Fraternity**
 1996-1997 **Teaching Assistant / Assistant Coordinator for medical ethics course**
 1996-1997 **Physics Instructor, Student Learning Center**

Columbia University, College of Physicians and Surgeons

- 1999-2000 **Co-president (Columbia chapter), American Medical Association, Medical Student Section**
 1999-2000 **Student representative to Health Sciences Housing Committee**
 1999-2000 **Co-president, Children’s Players** – performed plays for pediatric inpatients.
 1999-2000 **Anatomy lecturer, Student Success Network**

The Cleveland Clinic Lerner College of Medicine

- 2005 – 2007 **Resident anatomy instructor** – head & neck anatomy, for first year medical students.

The Cleveland Clinic, Head & Neck Institute

- 2008 **Chief administrative resident**
 2008 **Chief resident instructor** – Management of the acute airway (animal lab) – foreign body endoscopy and emergent cricothyroidotomy / tracheotomy instruction