

*Nathan S. Alexander, MD*  
*Curriculum Vitae*

**EDUCATION**

- 2012-2013 Fellowship in Pediatric Otolaryngology  
Anne & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL  
McGaw Medical Center - Northwestern University, Chicago, IL
- 2007-2012 Residency in Otolaryngology—Head and Neck Surgery  
University of Alabama, Birmingham, AL
- 2003-2007 Doctor of Medicine  
Louisiana State University Health Sciences Center, Shreveport, LA
- 1999-2003 Bachelor of Science, Biochemistry with Honors  
Roanoke College, Salem, VA

**ACADEMIC AFFILIATIONS AND EMPLOYMENT HISTORY**

- 2015-Present Clinical Assistant Professor  
University of South Carolina School of Medicine, Greenville
- 2013- Present Partner, Greenville Ear, Nose, and Throat Associates  
Attending Physician Pediatric Otolaryngology  
Prisma Health Upstate - Children's Hospital, Greenville
- 2012-2013 Instructor, Northwestern University/Anne & Robert H. Lurie Children's Hospital of Chicago

**HONORS AND AWARDS**

- 2011 Resident of the Year Award – UAB Otolaryngology HNS
- 2007 Dr. & Mrs. Adrian F. Reed Memorial Award
- 2006 Alpha Omega Alpha Medical Honor Society
- 2005 Shreveport Police Department – Civic Award
- 2005-07 Nathan Bernstein Scholarship for Academic Excellence
- 2004 American Medical Association Foundation Scholarship
- 2004 American Society of Hematology

- Medical Student Award/Scholarship
- 2003 Jeffery Charles Bergeson Award & Scholarship
- 2003 Who's Who of American Colleges
- 2003 Fintel Senior Scholar Award & Scholarship
- 2003 James Lewis Howe Award in Chemistry, ACS – Blue Ridge Section
- 2003 Balfour Award, Sigma Chi Fraternity
- 2003 Phi Beta Kappa Award
- 2002-03 Sigma Chi Fraternity President, Roanoke College
- 2002 Cancer Research Training Award, CCR, NCI, NIH
- 2001 Bondurant Research Award/ Fellowship, Roanoke College

## **BOARD CERTIFICATION AND LICENSURE**

American Board of Otolaryngology

## **PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

American Academy of Otolaryngology—Head and Neck Surgery

South Carolina Society of Otolaryngology—Head and Neck Surgery

Greenville County Medical Society

## **PUBLICATIONS AND RESEARCH**

### BOOK CHAPTERS:

Alexander, NS, Schroeder, JW. Pediatric Pulmonology, Asthma, and Sleep Medicine: A Manual for Primary Care. AAP.

Alexander, NS, Schroeder, JW. Pediatric Obstructive Sleep Apnea Syndrome. In Pediatric Clinics of North America - Pediatric Otolaryngology. Ed by Pine, HS. Elsevier 2013.

### ARTICLES:

Alexander NS, Boota A, Hooks K, White JR. Rapid Maxillary Expansion and Adenotonsillectomy in 9-year-old Twins with Pediatric Obstructive Sleep Apnea Syndrome: An Interdisciplinary Effort. *Journal of American Osteopathic Association*. 2019 Feb; 119:126-134.

Alexander NS, Lui JZ, Bhushan B, Holinger LD, Schroeder JW Jr. Postoperative observation of children after endoscopic type 1 posterior laryngeal cleft repair. *Otolaryngol Head Neck Surg*. 2015 Jan; 152(1):153-8.

Alexander NS, Blount A, Zhang S, Skinner D, Hicks SB, Chestnus M, Kebbel FA, Sorscher EJ, Woodworth BA. Cystic Fibrosis Transmembrane Conductance Regulator Modulation by the tobacco smoke toxin Acrolein. *Laryngoscope*. 2012 Jun; 122(6):1193-7.

Alexander NS, Riley KO, Woodworth BA. Treatment Strategies for Lateral Sphenoid Sinus Recess Cerebrospinal Fluid Leaks. *Arch Otolaryngol Head Neck Surg*. 2012 May; 138(5):471-8.

Alexander NS, Kulbersh BD, Heath CH, Desmond RA, Caron E, Woolley AL, Hill JS, Shirley WP, Wiatrak BJ. MRSA and Non-MRSA Otorrhea in Children. A Comparative Study of Clinical Course. *Arch Otolaryngol Head Neck Surg*. 2011 Dec; 137(12):1-2.

Alexander NS, Hatch N, Zhang S, Skinner D, Fortenberry J, Sorscher E, Woodworth BA. Resveratrol has Salutary Effects on Mucocilliary Transport and Inflammation in Sinonasal Epithelium. *Laryngoscope*. 2011 Jun;121(6):1313-9.

Alexander NS, Caron E, Woolley AL. Fixation Methods in Pediatric Cochlear Implants – Retrospective Review of an Evolution of Three Techniques. *Otolaryngol Head Neck Surg*. 2011 Mar;144(3):427-30.

Baranano CF, Sweitzer RS, Mahalak ML, Alexander NS, Woolley AL. The management of myringotomy tubes in pediatric cochlear implant recipients. *Arch Otolaryngol Head Neck Surg*. 2010 Jun;136(6):557-60.

Kimchi-Sarfaty C, Alexander NS, Brittain S, Ali S, and Gottesman MM. Transduction of Multiple Cell Types Using Improved Conditions for Gene Delivery and Expression of SV40 Pseudovirions Packaged In Vitro. *BioTechniques*. 2004 Aug;37(2):270-275.

Kimchi-Sarfaty C, Garfield S, Alexander NS, Ali S, Cruz C, Chinnasamy D, and Gottesman MM. The pathway of uptake of SV40 pseudovirions packaged in vitro: from MHC class I receptors to the nucleus. *Gene Ther Mol Biol*, 2004 Vol 8: Issue B: 439-450.

#### ORAL PRESENTATIONS AT REGIONAL, NATIONAL AND INTERNATIONAL MEETINGS:

Pediatric Grand Rounds – Greenville Health System Children’s Hospital. Pathways Toward Tracheostomy Decannulation. Greenville, SC, 2017.

Invited Speaker – Neonatal Pediatric Respiratory Symposium. Neonatal Upper Airway Obstruction. Greenville, SC, 2016.

Invited Speaker – South Carolina Nurses Association. Updates in Pediatric Otolaryngology. Greenville, SC, 2015.

Alexander NS, Hatch N, Zhang S, Skinner D, Fortenberry J, Sorscher E, Woodworth BA. Resveratrol has Salutary Effects on Mucocilliary Transport and Inflammation in Sinonasal Epithelium. UAB Otolaryngology Resident Research Day, Birmingham, Alabama, 2011.

Invited speaker – CleftNet Alabama Spring Meeting, Birmingham, AL, 2011.

Alexander NS, Riley KO, Woodworth BW. Treatment Strategies for Lateral Sphenoid Sinus Recess Cerebrospinal Fluid Leaks. UAB Otolaryngology Resident Research Day, Birmingham, Alabama, 2010.

Alexander N, Carroll W, Withrow K. Laryngeal Schwannoma – Two Cases, Two Approaches, and a Literature Review. UAB Otolaryngology Resident Research Day, Birmingham, Alabama, 2009.

Nathan S. Alexander, Angela C. Blount, Shaoyan Zhang, Daniel Skinner, Michael Chestnut, Frederick A. Kebbel, Eric J. Sorscher, Bradford A. Woodworth. CFTR Modulation by the Tobacco Smoke Toxin Acrolein. COSM, San Fransisco, CA, 2011.

Alexander NS, Hatch N, Zhang S, Skinner D, Fortenberry J, Sorscher E, Woodworth BA. Resveratrol has Salutary Effects on Mucocilliary Transport and Inflammation in Sinonasal Epithelium. Triological Society Combined Sections Spring Meeting, Scottsdale, AZ, 2011.

Alexander NS, Kulbersh BD, Heath CH, Caron E, Wiatrak B, MRSA Otorrhea Does Not Portend a More Complicated Treatment Course Than Non-MRSA Otorrhea in the Pediatric Population. American Society of Pediatric Otolaryngology, Chicago, IL, 2011.

Alexander NS, Castellanos PF. Bedside Percutaneous Dilatational Tracheotomy in Patients with Severe Respiratory Disease: The Benefits of a Novel Surgical Technique. Chest, Vancouver, BC, 2010.

Alexander NS, Sullivan BP, Rosenthal EL, Carroll WR, Desmond RA, Magnuson JS. “Clinical Outcomes Following Transoral Robotic Surgery or Primary Radiotherapy for Squamous Cell Carcinoma of the Oropharynx.” Triological Society Combined Sections Spring Meeting, Orlando, Florida, 2010.

A. Sequeira, P. Patel, J. Laborde, B. Leblanc, M. Carter, N. Alexander, J. Blondin. “*Hypercalcemia in End Stage Renal Disease.*” SSCI/SAFMR Conference, Atlanta, Georgia, 2006.

Nathan S. Alexander, Aalok Turakhia, Nazanin Amirghahari, Cherie Ann Nathan, William B. Klimstra, Katherine D. Ryman: “*Sindbis Virus as a Novel Oncolytic Vector for Virotherapy of Head and Neck Cancer.*” The Ray A. Barlow Scientific Symposium, 2005.

Nathan S. Alexander, Aalok Turakhia, Nazanin Amirghahari, Cherie Ann Nathan, William B. Klimstra, Katherine D. Ryman: “*Sindbis Virus as a Novel Oncolytic Vector for Virotherapy of Head and Neck Cancer.*” American Academy of Otolaryngology – Head and Neck Surgery, 2005.

Nathan S. Alexander, Chava Kimchi-Sarfaty, Michael M. Gottesman. “*Scaling Up the SV40 In Vitro Packaging Gene Delivery & Following the Pseudovirions' Pathway.*” Chemistry Co-Curricular Enrichment Lecture Series, Roanoke College, 2002.

L Pysh, N Alexander, A Neuhs, M Vines, C Mason, and Joanna Wysocka-Diller. “*Ethylene Responses Contribute to the Phenotypes of Several Arabidopsis Root Cell Shape Mutants*” FASEB Summer Research Conference on Plant Development; Saxtons River, VT, 2002.

LD Pysh, J Wysocka-Diller, T Acosta, B Dozier, C Mason, N Alexander, and P Benfey. “*The mre mutants of Arabidopsis thaliana.*” Gordon Conference on Plant Cell Walls; Meridian, NH, 2000.

POSTER PRESENTATIONS:

Alexander NS, Lui JZ, Bhushan B, Holinger LD, Schroeder JW Jr. Postoperative observation of children after endoscopic type 1 posterior laryngeal cleft repair. Otolaryngol Head Neck Surg. American Society of Pediatric Otolaryngology, Las Vegas, 2014.

Alexander NS, Riley KO, Woodworth BW. Treatment Strategies for Lateral Sphenoid Sinus Recess Cerebrospinal Fluid Leaks. Triological Society Combined Sections Spring Meeting, Scottsdale, AZ, 2011.

Nathan S. Alexander, Chava Kimchi-Sarfaty, Michael M. Gottesman. “*Scaling Up the SV40 In Vitro Packaging Gene Delivery & Following the Pseudovirions' Pathway.*” Eleventh Annual Undergraduate and High School Poster Session Sponsored by the Virginia Blue Ridge Section of the American Chemical Society Radford University, 2003.

Nathan S. Alexander, Chava Kimchi-Sarfaty, Michael M. Gottesman. “*Scaling Up the SV40 In Vitro Packaging Gene Delivery & Following the Pseudovirions' Pathway.*” National Institutes of Health – Summer Student Poster Day, 2002.

**OTHER MEDICAL EXPERIENCE**

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| 2016,'17,'18,'19 | Cleft Lip/Palate Mission, Smile Train, Cure Hospital, Kijabe, Kenya (cleft, airway) |
| 2010             | Medical Mission Ecuador (cleft, ENT)  |
| 2002             | Christian Mission to Cordoba, Mexico (medical/dental)                               |

**OUTSIDE INTERESTS**

Exercise, quality time with my wife and children, snowboarding