

University of Missouri School of Medicine

Otolaryngology—Head and Neck Surgery



RESIDENCY ADMINISTRATION

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WELCOME TO MIZZOU

On behalf of the Department of Otolaryngology—Head and Neck Surgery, we welcome you to Mizzou and encourage you to learn more about graduate medical education training opportunities with us. The otolaryngology residency program has been here since the first official trainee in 1970. From our early beginnings as a division of general surgery, the practice became its own department in 2004. We have graduated residency alumni who can be found throughout the United States in traditional, hospital, military, and/or academic practices.

Clinically, the department provides the premier otolaryngic care for patients of central Missouri. Our surgeons, in tight coordination with our endocrinology colleagues, deliver nearly all the surgical thyroid and parathyroid care for the hospital system. The full complement of oncologic ablative and reconstructive surgery is performed within our department. With the only fellowship trained neurotologist in this region, our Hearing and Balance Center is the cochlear implant provider for patients of mid-Missouri, along with comprehensive audio and vestibular assessment and rehabilitation. Our allergy center is an major provider for sublingual and subcutaneous immunotherapy for pediatric and adult patient with aeroallergens. Our faculty collectively have extensive fellowship training in head and neck oncology, microvascular surgery, laryngology, otolaryngic allergy, facial plastic and reconstructive surgery, neurotology, pediatric otolaryngology, and oral surgery.

The pride of our department lies in medical education. Our program provides a balanced experience of surgical exposure, clinic exposure, as well as time for cognitive development through didactic conferences, workshops, and individual study. The department has recently made large investments in a new conference room and new resident offices. In 2018, we completed a quarter million dollar renovation of our temporal bone lab to provide enhanced otologic training environment for our residents. Resident otolaryngology education doesn't exist purely within the confines of our campus. The department funds and facilitates opportunities for residents to attend external courses, conferences, and workshops to hear from experts around the country.

Discovery and innovation play a growing role in our enterprise. We have two well-funded basic and translational science research faculty members in our department. We have several ongoing industry funded clinical trial projects that fuel our enterprise. These endeavors—in addition to a multitude of clinical projects—are facilitated by two research coordinators who help enormously with facilitate grant acquisition, IRB clearance, and patient recruitment.

Our clinicians are involved in shaping the practice of medicine and otolaryngology here at the University of Missouri and beyond. Our faculty hold leadership positions in the American Academy of Otolaryngology—Head and Neck Surgery and other national subspecialty associations as well as throughout the University of Missouri Health Care and the School of Medicine. Our oncology team joins with other regional academic institutions to form the Midwest Head & Neck Cancer Consortium to share ideas and collaborate on research interests. Our service activities demonstrate the passion and commitment we have to our organization and field.

Thanks for your interest in our program. We hope to cross paths with you sometime in your future!

CW David Chang, MD, FACS

Jerry W. Templer, MD Faculty Scholar in Otolaryngology
Residency Program Director



Laura M. Dooley, MD, FACS

Assistant Program Director



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VIDEO ABOUT MU HEALTH CARE**

GENERAL INFORMATION

Our program alternately matriculates two or three residents per year. Applications are submitted through ERAS and residency slots are filled through The Match, organized by NRMP. We receive over 250 applications per year and interview approximately 40 candidates. Our residents traditionally come from the central United States and have completed medical education in either an allopathic or osteopathic pathway. Although applicants are encouraged to have a strong academic record and research experience, we search out for other factors that make outstanding residents and physicians: strong work ethic, collegial demeanor, and self-motivation. These are not factors that can be easily represented by a single metric and therefore we employ holistic application review. By this, we do not employ a USMLE cut off or specific point algorithm to select applicants for interview, as we feel that such methodology fails to acknowledge the diversity of experience each candidate possesses.

Great physicians come from a variety of backgrounds. Our department seeks to recruit, train, and nurture a team of residents that reflects our diverse national population.



RESIDENCY TRAINING OUTLINE

Residency training provides a graduated experience with increased responsibilities as you progress through the training process. While rotations change based on resident complement and other circumstances, below is a general guide of what our residents are doing year by year.

PGY1: With six months of ENT now built into the first year, residents get early surgical and patient management experience within otolaryngology. Inpatient consultations are often initiated by the PGY1 resident. The other six months are off of the ENT service, but provide exposure to general surgery, ICU care, emergency medicine, anesthesia, oculoplastic surgery, and head & neck radiology.

PGY2: The PGY2 year is split between rotations at the VA, on the university otolaryngology service (primarily pediatric otolaryngology), well as part of the head & neck team.

PGY3: The PGY3 year incorporates two months of research, time at the VA as the midlevel resident, and months on the head & neck and university otolaryngology service as the midlevel resident, then head resident.

PGY4: An additional one month of research provides the ability to tie up loose ends on bigger projects as well as start smaller projects to complete during the remainder of the residency. Additional focused exposure to otology is acquired through beginning rotations with our neurotologist. The remainder of the year is split as chief of the university otolaryngology team and head & neck team.

PGY5: The PGY5 year is the chief resident year. Further otologic experience is gained with three months as the otology resident. Six months are spent as the chief of the VA service, which allows the greatest autonomy to determine patient care and operative experience. The remainder of time is spent on the university otolaryngology service. Chiefs are responsible for oversight of inpatient consults as well as allocation of residents to cases and clinics. A one-month experience in private practice otology and facial plastics in Springfield, MO is incorporated for some of our senior residents this year





MEDICAL TRAINING SITES

Otolaryngology training occurs at three main training sites in Columbia: Women's and Children's Hospital, MU Health Care—University Hospital, and the VA. The VA and University Hospital are located across the street from each other, while Women's and Children's Hospital is merely a 10 minute drive away.

University Hospital is a 247 bed hospital with the only level-one trauma center and helicopter service in central Missouri. It is the site of most inpatient procedures including the larger head and neck procedures or operations performed on medically complex patients. Attached to the University Hospital is the Ellis Fischel Cancer Center, which hosts our oncology clinics.

Women's and Children's Hospital is a stand-alone pediatric and women's health hospital. Within walking distance of the hospital are three outpatient ENT clinics: the Hearing and Balance Center, the ENT Allergy Center, and Columbia ENT (a recently acquired practice). We have full service audiology and vestibular testing, a wide range of allergy testing and treatment options, a pediatric clinic, a multidisciplinary pediatric dysphagia clinic, a cosmetic plastic surgery clinic, and clinics that treat the range of patient issues from professional voice problems to sinus disease. As Missouri is one of the most allergenic states, we have a robust allergy practice that provide subcutaneous and sublingual immunotherapy.

The VA is where our residents have the opportunity to give back to the veterans in our community. The VA is staffed by many of the same faculty who cover the University Hospital. The VA experience provides greater resident autonomy regarding patient care management, with appropriate oversight by faculty physicians.

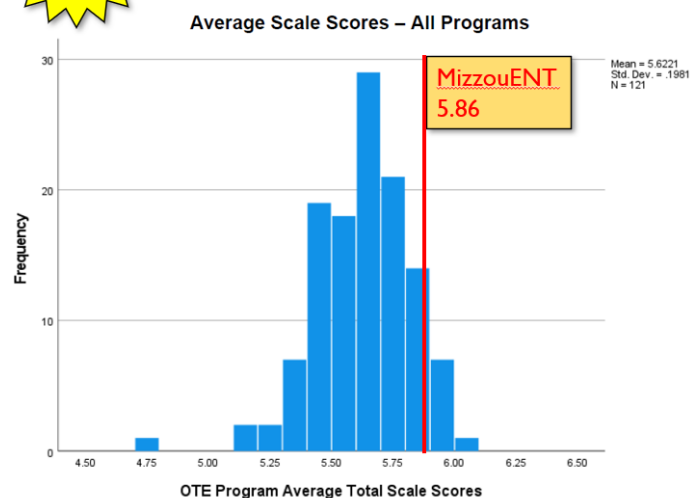
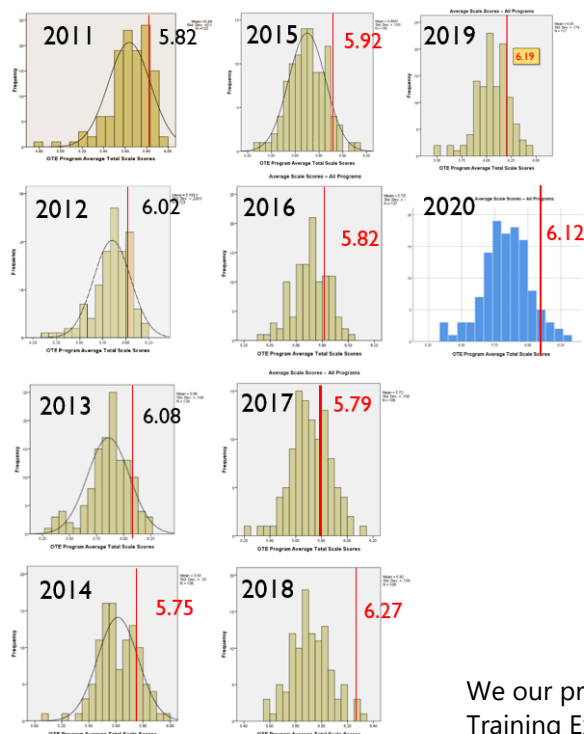
Capital Regional Medical Center (CRMC) is located in Jefferson City, a 30 minute drive from Columbia. The clinical expansion of our department to CRMC increases the availability of general ENT services, otologic surgery, thyroid surgery, and allergy management. Here, residents are afforded increased clinical and surgical experiences.

CONFERENCES, CURRICULUM, COURSES

Residency education is accomplished through more than “on-the-job” training. Our program provides a curriculum of educational opportunities that allow physicians to interface academically with otolaryngology topics in multi-faceted ways.

Grand rounds, which are held weekly, feature series of topics taken from the ABOto Core Curriculum and repeated on a 2-year cycle. Topics are assigned to resident presenters—in conjunction with a faculty preceptor—according to knowledge gaps based upon each resident’s performance on the Otolaryngology Training Exam. This structure creates a rich learning opportunity both for the presenter and the audience. Faculty also lead didactics not only through integration in the grand rounds schedule but by also leading a Sub-Specialty Series conference. This conference is rotated amongst our faculty and provides our residents with greater insight into personal management of clinical challenges. We believe that medical education is more than simply learning about patient care and having medical knowledge. To reflect that, our curriculum incorporates learning about the business of medicine, health care payment and delivery systems, and medical legal issues.

Learning is best achieved with a balance of time spent on clinical experiences, didactic sessions, as well as self-directed study. We hope to have struck the right balance, as our residents have aggregately scored well in the top half of all training programs on the Otolaryngology Training Exam year after year.



We are proud of our residents’ achievement on the Otolaryngology Training Exam. Every year, our residents aggregately score in the upper aspect of the bell curve in comparison to other training pro-

Our educational curriculum is enhanced by additional department-sponsored experiential opportunities. PGY2s participate in the Midwest Otolaryngology Simulation Training bootcamp to gain practical beginning otolaryngology skills. PGY3s are sent to the AO trauma plating course (trauma management, hands-on application of fracture fixation) and the Resident Update in Rhinology (intensive cadaver workshop to develop techniques in endoscopic sinus surgery). In the PGY4 year, the residents are involved with two regional consortiums that meet yearly to advance knowledge and research within their sub-specialty: the Midwest Head and Neck Cancer Consortium and the Midwest Pediatric ENT Consortium.

Our temporal bone drilling lab has been completely refreshed, equipped with eight new drilling stations, flat screen monitors, and new freezer for specimen storage. We are grateful to have an abundant supply of temporal bones available from the Gift of Body Program administered by the Department of Pathology & Anatomical Sciences at the University of Missouri. Residents are immersed in temporal bone drilling sessions throughout the year led by faculty and invited guest faculty. Ready-access to the lab affords residents the opportunity to drill whenever desired, whether in preparation for a case or to further skills.



Key Indicator and Total Tracked Case numbers for our 2020 graduates

	Minimum	National Median (2020)	Sr. #1	Sr. #2
Head & Neck				
Parotidectomy (all types)	15	28	25	16
Neck Dissection (all types)	27	70	78	63
Oral Cavity Resection	10	25	31	21
Thyroid/Parathyroidectomy	22	67	115	77
Otology/Audiology				
Tympanoplasty (all types)	17	46	68	95
Mastoidectomy (all types)	15	40	45	92
Stapedectomy/Ossiculoplasty	10	18	16	56
FPRS				
Rhinoplasty (all types)	8	28	38	34
CMF	12	33	45	41
Flaps and Grafts	20	78	97	212
General/Peds				
Airway – Pediatric and Adult	20	73	62	53
Congenital Neck Masses	7	15	13	10
Sinus	40	96	60	74
Bronchoscopy	22	65	25	47
TOTAL TRACKED (Res Supervisor + Res Surgeon)		1,773	1906	2374

Performed fewer procedures than the RRC Minimum

Met/exceeded the RRC Minimum

Exceeded the RRC Minimum more than 2.5 times

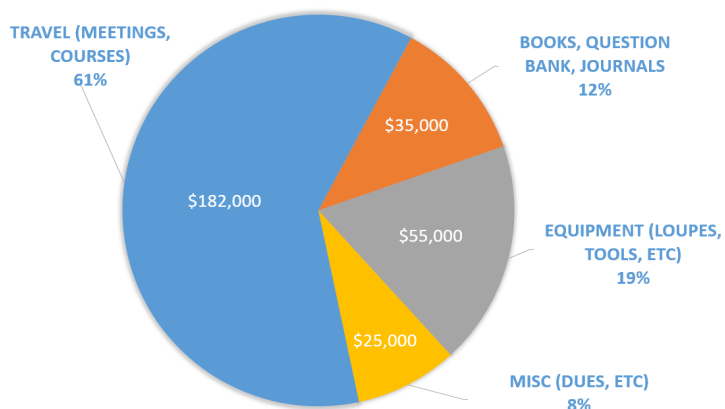
BENEFITS

Resident salaries are consistent across specialties at the University of Missouri based upon post-graduate year:

PGY1	\$56,987
PGY2	\$58,961
PGY3	\$60,981
PGY4	\$63,772
PGY5	\$66,372

Equipping residents with the tools needed for successful development is just as important as the curriculum experience. To springboard new residents into their career, the department provides each with the tools of the trade: personalized lab coats, a head mirror, a copy of a definitive text (such as *Cummings* or *Bailey's*), a tuning fork, and a pocket otoscope. Furthermore, each year every resident is given FLEX (Focused Life-long Education Xperience), the flagship educational product from AAO-HNS that includes webcasts from the Annual Meeting, OTOQuest case-based question bank, access to podcasts and surgical videos, and AcademyU® with 200+ online education activities.

CATEGORY OF POINTS SPENDING, 2006-2019



Resident achievements in clinical and scholarly pursuits are appreciated and recognized by the department. A **reward points program** has been created that rewards research activity, excellence in service, and excellence in education. Residents can earn up to \$12,500 worth of points, awarded for various accomplishments. While awarded points are weighted towards research endeavors, other pursuits such as committee membership, educational lectures to other departments, and efforts to further our specialty locally and nationally (committee and organization involvement) are valued. Points can be redeemed for academic travel, books, loupes, and other materials that directly enhance education.

Reward Points



Scholarly activity

Case Reports

Submission: 100
Acceptance: 200*/300**
Total: 300-400 First author

Retrospective review (n>3)

Submission: 200
Acceptance: 500*/600**
Total: 700-800

Major Prospective, Basic Science

Submission: 300
Acceptance: 750*/850**
Total: 1050-1150

Book Chapter

500 pts



Presentations

Poster presentation

Local/regional: 100
National/international: 500

Oral Presentation

Local /regional: 100
National/international: 700



Medical Knowledge

OTE score >90 %tile: 300
80-89 %tile: 150.



Patient care

Positive written attending physician feedback: 25



Problem based learning

1 page synopsis of literature reviewing a particular problem and best practice guidelines, complete with sources: 50



Systems based practice

Leading and completing a Quality Improvement (QI) project: up to 250



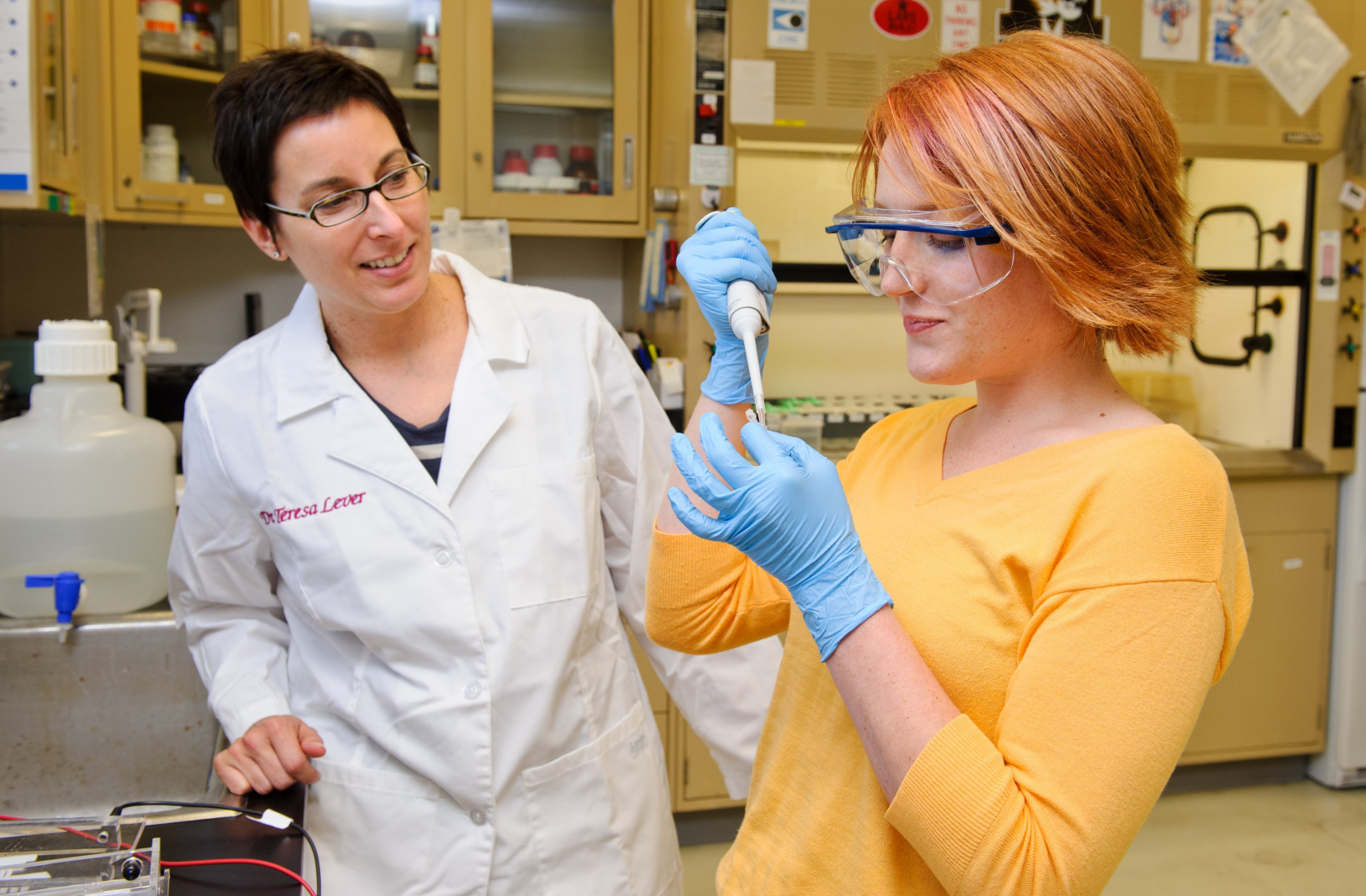
Professionalism

local committees: 50
national committees: 200.



Communication

lecture to medical students/residents, nursing, clinic staff: 100



RESEARCH

There is an abundance of discovery at MU. From case reports to NIH funded translational research, there are options for everyone no matter your research background and interests. Throughout the year, residents are engaged in investigative projects that provide further insight into the practice of otolaryngology. Dedicated research time is incorporated in the schedule: two months during PGY3, one month during PGY4. This division allows time for larger projects to mature.

While many of the research projects are resident inspired, each project is supported by a faculty mentor for intellectual and logistic contributions. There are opportunities for translational and bench science with our two dedicated basic science research faculty. **Teresa Lever, PhD** has an interest in swallowing and dysphagia. Her lab has developed a murine model of amyotrophic lateral sclerosis, and is studying the effects of serotonin supplementation upon swallow function. **Olga Baker, DDS, PhD** just joined our faculty. She has research interests in salivary gland issues, including radiation and autoimmune induced xerostomia, and brings a team of personnel from Utah. Both Dr. Lever and Dr. Baker bring a wealth of research experience and NIH-level funding for a variety of projects.

Our department also participates in various industry sponsored trials in allergy, rhinology, otology, and oncology. For more details, see <https://medicine.missouri.edu/departments/otolaryngology-head-and-neck-surgery/research>.

Resident research efforts are showcased yearly at our Resident Research Forum presented in June. Awards are given for 1st and 2nd place. Successful projects mature to become poster and oral presentations at national meetings, and ultimately become published in major journals. Research endeavors are well recognized and supported.

RECENT JOURNAL PUBLICATIONS

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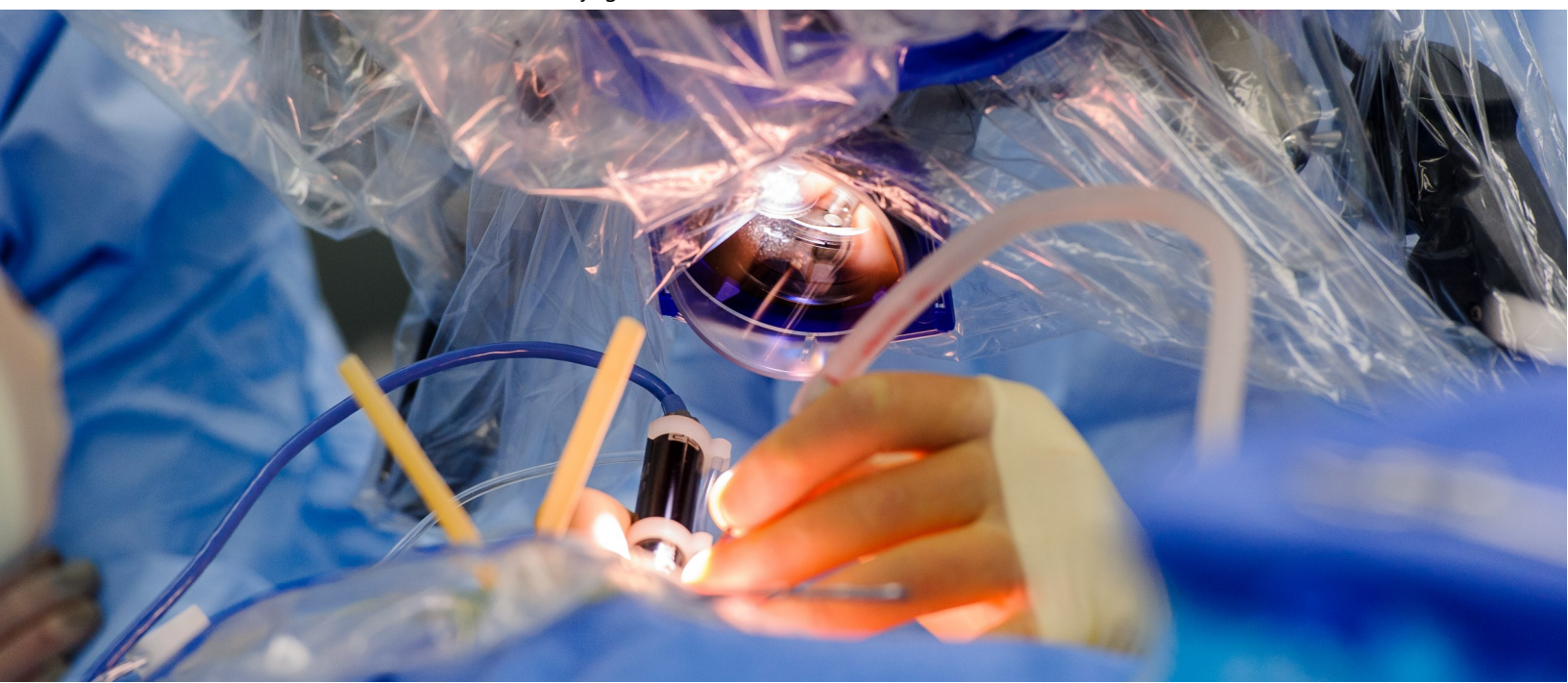
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ALUMNI

We are proud of all our graduates that have come through our program over the last 50 years. The following are recent post-residency careers of our graduates:

2021

- Facial plastics fellowship
- Practice, NE

2020

- Facial plastics fellowship
- Otology fellowship
- Military

2019

- Practice, TX
- H&N Fellowship; Academic practice, Rutgers

2018

- Practice, KS
- Practice, TN

2017

- Otology/peds fellowship; Academic practice, U. Wisc.
- Practice, MI

Otolaryngology graduates from our program are scattered throughout the United States. Whether your career goal is private practice, hospital practice, or an academic practice environment, we can provide you connections to launch your career.





FACULTY

Olga Baker, DDS, PhD

Professor of Otolaryngology
Research Interest: Salivary gland disorders

M. Stephen Brandon Jr, DDS

Assistant Professional Practice Professor
Clinical Interest: Oral Surgery

Gregory S. Campbell, MD

Assistant Professor of Clinical Otolaryngology
Clinical Interest: General Otolaryngology

C.W. David Chang, MD, FACS

Jerry W. Templer, MD Faculty Scholar
Associate Professor of Clinical Otolaryngology
Residency Director
Clinical Interest: Facial Plastic & Reconstructive Surgery, Rhinology

Laura M. Dooley, MD, FACS

Assistant Professor of Clinical Otolaryngology
Assistant Program Director
Clinical Interest: Head & Neck Oncology, Laryngology

Susie Early, MD

Assistant Professor of Clinical Otolaryngology
Clinical Interest: General Otolaryngology

Christine B. Franzese, MD, FAAOA

Professor of Clinical Otolaryngology
Medical Student Director
Clinical Interest: Allergy, Rhinology

Tabitha L. I. Galloway, MD, FACS

Assistant Professor of Clinical Otolaryngology
Clinical Interest: Head & Neck Oncology, Microvascular Surgery, Sialendoscopy

Mark R. Gilbert, MD

Assistant Professor of Clinical Otolaryngology
Clinical Interest: Laryngology



FACULTY (cont.)

Eliav Gov-Ari, MD, FACS, FAAP

Associate Professor of Clinical Otolaryngology
Clinical Interest: Pediatric Otolaryngology

Matthew A. Kienstra, MD

Adjunct Assistant Professor of Otolaryngology
Clinical Interest: Facial Plastic & Reconstructive Surgery, Skull Base Surgery

Dana M King III, MD

Clinical Assistant Professor of Otolaryngology
Clinical Interest: VA General Otolaryngology

William C. Kinney, MD, MHA

Adjunct Assistant Professor of Otolaryngology
Clinical Interest: General Otolaryngology, Otolology

David A. Kropf, MD

Adjunct Assistant Professor of Otolaryngology
Clinical Interest: General Otolaryngology

Teresa E. Lever, PhD

Associate Professor
Research Interest: Swallowing Disorders

David C. Mechlin, MD

Adjunct Assistant Professor of Otolaryngology
Clinical Interest: VA General Otolaryngology

Gregory J. Renner, MD, FACS

Professor Emeritus
Clinical Interest: Head & Neck Oncology, Reconstructive Surgery

Arnaldo L. Rivera, MD, FACS

Associate Professor of Clinical Otolaryngology
Clinical Interest: Neurotology

Patrick T. Tassone, MD

Assistant Professor of Clinical Otolaryngology
Clinical Interest: Head & Neck Oncology, Microvascular Surgery

Robert P. Zitsch III, MD, FACS

William E. Davis Chair and Professor
Clinical Interest: Head & Neck Oncology





COLUMBIA OFFERS

- 600 restaurants
- 8 hospitals and health care centers
- Places of worship for all major religions
- Indoor and outdoor live theater and music
- 49 public parks and 6 recreation areas
- Walking trails throughout the city
- 32 museums and art galleries

DOWNTOWN

Columbia's historic downtown district is packed with shops and entertainment. Columbia's local art scene thrives, with venues including Orr Street Studios, Sager Braudis Gallery, Artlandish Gallery, Bluestem Missouri Crafts, the Columbia Art League and a burgeoning North Village Arts District.

Want to go shopping? You're in luck! The District is packed with designer boutiques, shoe stores, jewelers, florists, book shops, sweets shops and purveyors of eco-friendly products and novelty items.

THE GREAT OUTDOORS

Columbia boasts multiple city parks, as well as, Rock Bridge State Park, Stephens Lake and the city's Activity and Recreation Center. We have caves, lakes, streams and cliffs for outdoor adventurers.

SCHOOLS

Columbia is home to nationally renowned public schools, including two top-ranked high schools. It offers a public school system that annually produces some of the largest numbers of national merit scholars in the state, 18 parochial and private schools, four

special-needs training facilities, an adult education center and a lifelong learning institute. It also supports other institutes of higher education, including Columbia College, and Stephens College, a women's college known for its fashion, film and fine arts.

INSIDE SCOOP

Our Favorite Things to do in Columbia



True/False Film Fest – An internationally acclaimed festival that attracts Oscar-winning documentary film makers.



Roots and Blues Festival – This *New York Times* touted BBQ event draws top-name acts and crowds of 100,000 people. The festival also has art fairs, parades, pub crawls, sidewalk sales and outdoor concerts.



Best Place To Enjoy A Glass Of Wine
Maybe you're sipping your glass of vino over a fancy dinner at Blufftop Bistro or a casual picnic at the A-Frame, or maybe you're sampling a selection at the Tasting Room. Regardless of how you choose to enjoy your glass, Les Bourgeois provides a beautiful backdrop and a variety of locally produced wines.



Best Place To Enjoy A Good Beer
You can't beat a good, local craft beer, and at Flat Branch Pub & Brewing, you'll find 12 or 13, all brewed in-house, on tap every night.



Best Coffee House
With its homey atmosphere, excellent customer service and wide selection of coffees, all of which are roasted in house, Lakota Coffee Company and Roasters has been keeping Columbia caffeinated since 1992.

