Imagine your firstborn was diagnosed with progressive hearing loss. For any first-time parent, the news might be devastating. Now imagine your second child was born with the same problem.

For Andrew Shuman, M.D., assistant professor of otolaryngology-head and neck surgery at the University of Michigan, and Emily Shuman, M.D., assistant professor of internal medicine at U-M, despite their medical backgrounds, the news was unforeseen and overwhelming. Parents to Jonah, age five, and Lily, age two, the Shumans are cognizant of the impact that hearing loss has on their own patients and can more closely identify with patients and families in similar circumstances. “[This] has definitely affected the way we practice,” Emily observed. “Watching your children go through something like this makes you much more empathetic.”

Jonah was two years old when he was diagnosed with an enlarged vestibular aqueduct (EVA), an inner ear abnormality that can cause progressive or sudden hearing loss with very little predictability or forewarning. Some patients can overcome the hearing loss with hearing aids, while others have to consider a cochlear implant. “Jonah did really well with hearing aids initially but then had a sudden onset of complete deafness,” Emily recalled, “which was a very difficult time for us.”

For Dr. Andy Shuman, an alumnus of the U-M otolaryngology residency program, entrusting the care of his child to his mentors was instinctive. “One of the advantages of our residency program is how well faculty and trainees work together,” Andy continued. “It is remarkable how little our relationship has changed from trainee to faculty, to professional colleagues, and now parent to doctor.” It was one such faculty member and colleague, H. Alexander Arts, M.D, FACS, U-M professor of otolaryngology-head and neck surgery and a neurotologist, who performed Jonah’s cochlear implantation. “Most children with EVA will develop some amount of hearing loss that will either fluctuate or deteriorate over time,” explained Dr. Arts. “Identifying deterioration in hearing early on is pivotal in reducing the syndrome’s impact upon the patient.”

Even though the Shumans were living in New York City when Jonah was initially treated for hearing loss, both Emily and Andy found that the treatment Jonah received at U-M was more cohesive than at outside institutions. This made the decision to return to U-M an easy one when Lily was also diagnosed with EVA. Like Jonah, Lily failed her newborn hearing screening and was confirmed to have a mild-moderate hearing loss, which progressed while she was an infant. Dr. Arts recommended cochlear implantation for Lily, as well.

“It has been a great relief to us to receive care for our children at U-M,” stated Emily. “Not only have our children received great medical care, but the personal touch has helped us get through what has been a very hard time for our family.”

The comfort the Shumans received from every member involved in the care of Jonah and Lily,
FROM THE CHAIR

Things continue to move and shake here in the U-M Department of Otolaryngology-Head and Neck Surgery. During the last six months alone, we have recruited seven faculty to join our esteemed team of clinicians and researchers, an accomplishment of which I am incredibly proud. Each recruit brings his or her own skills and passions, which allow us to meet the needs of a diverse and complex patient population.

Education continues to be of the utmost importance in our department. In June we said goodbye to another class of graduating residents a fellows, while also welcoming a new class of interns and fellows. It’s always a bittersweet time of year. As a part of this process, our senior residents honor two of our faculty members with the Faculty Teaching Award and the Faculty Mentorship Award. Dr. Matthew Spector received this year’s teaching award and Dr. Norman Hogikyan received the mentorship award. Congratulations to both of these men, who are truly deserving of these awards.

This July marked our 4th Annual ORL Essentials Boot Camp. We welcomed 25 instructors and 29 learners from 15 different institutions. Many thanks to everyone who volunteered their time and skills in order to make this event a success. Our next course is scheduled for Saturday, July 9, 2016.

As is the tradition with our newsletters, every edition we highlight one of our divisions. This newsletter gives you an in-depth look at our Division of Pediatric Otolaryngology. This division boasts some of the best clinician-scientists in the field. They aren’t afraid to ask big questions and formulate even bigger answers. I would be remiss, though, to not also recognize the tireless dedication of our fabulous pediatric otolaryngology support staff. Our faculty members could not do their work without the knowledge and expertise of our audiologists, surgery schedulers, medical assistants, scribes and other team members.

I was thrilled to see many of you at this year’s AAO-HNS Annual Meeting in Dallas, Texas. Thanks to those of you who attended our alumni reception. More than 60 of our alumni and guests got in the Texas spirit at Eddie Deen’s Ranch, and several even tried their hand at cattle roping! Photos from the event are available on our SmugMug photo account at umoto.smugmug.com.

This year’s alumni reception was particularly special, as former trainee Duane Hartshorn, M.D., was our guest speaker. His remarks, which detailed his training experience and the impact it has had on his career, were moving. You can read more about Dr. Hartshorn’s remarks and his call to action later in this newsletter.

We continue to stretch the boundaries and expand our minds as we pursue our vision of providing exemplary clinical care, training the next generation of leaders in the field and shaping the future of research and patient care in otolaryngology. Thank you for supporting our vision!

Best regards,

Carol R. Bradford, M.D., FACS
Charles J. Krause, M.D., Collegiate Professor of Otolaryngology and Chair, Department of Otolaryngology-Head and Neck Surgery

“Listening” cont’d

including the speech pathologists, audiologists, and Dr. Arts fortified their decision to proceed with Lily’s cochlear implant. “There are so many technical issues that come up with hearing aids and cochlear implants,” Emily observed.

“One underemphasized advantage of U-M is the attention to detail and kindness from everyone [including] faculty, staff, receptionists and attending surgeons.”

How are Jonah and Lily doing now? “[They are] doing amazingly well,” Emily stated. “They both have normal expressive and receptive language for their ages, and they just love to listen with their ‘special ears.’ Most importantly, they are happy, well-adjusted and just normal kids … Now that they are doing so well with their implants, we occasionally forget that they are deaf and can’t hear us when their devices are off.” Indeed they are very normal kids; Emily joked, “Sometimes they choose not to listen, but that has nothing to do with their hearing.”

The Shumans are grateful for both the clinical care Jonah and Lily have received at U-M and the research being performed at the Kresge Hearing Research Institute. This research promises to advance hearing rehabilitation and revolutionize the next generation of cochlear implants. As health professionals, we aim to provide seamless transition between all key members involved in our patients’ care. As a health system, we strive to emulate the same consistent transition from innovation in research to excellence in patient care.
Scaffolding Builds Future Ears and Noses
by Amy Lenz

Pictured above, Dr. David Zopf (left) along with research specialist Colleen Flanagan (center) and faculty research colleague Dr. Scott Hollister

Medicine meets engineering in the lab of David A. Zopf, M.D., M.S., where new ears and noses are created utilizing computer-aided design (CAD) and 3D printing. Dr. Zopf’s research captures not only the marriage of medicine and engineering, but medicine and art as well. “Even Vincent Van Gogh had difficulty with the ear in his artwork,” Dr. Zopf observes. “Creating auricular and nasal scaffolds that have precise anatomic fidelity and supportive structure are just as important as building a house with a solid foundation in place.”

For Dr. Zopf, his research marks a creative return to the department where he once worked as an otolaryngology head-and-neck surgery resident. As a resident, Dr. Zopf trained under Glenn E. Green, M.D., a pediatric otolaryngologist in the department, and Scott Hollister, Ph.D., professor of biomedical engineering and associate professor of surgery at the University of Michigan. Drs. Green and Hollister are considered leaders in the medical applications of 3D printing. It was under their mentorship that Dr. Zopf began his research into how 3D printing can be used to catalyze auricular and nasal reconstruction. Today Dr. Zopf works alongside Drs. Green and Hollister and their teams, who are studying other medical applications for 3D printing, including tracheal reconstruction and custom-printed CPAP masks.

While practicing in the oldest medical specialty in the United States, Dr. Zopf is at the forefront of an innovative technology that could offer unparalleled results for his patients. He hopes that these advances in tissue-engineered ears and noses will one day improve his patients’ quality of life beyond mere aesthetics. The 3D scaffolds for the ear and nose have the potential to improve anatomic function as well as social impact, particularly in improving psycho-social development for children who have suffered a congenital or traumatic deformation. Additional populations who could benefit include armed service members and law enforcement officials who incur facial blast injuries.

Due to the complex three-dimensional nature of the ear and nose, the ability to effectively capture both their unique appearance and function is no small feat. Patients needing auricular or nasal reconstruction often suffer from congenital malformations. These include microtia (a condition where the external ear is undeveloped), an acquired traumatic deformation of the ear or nose on oncologic resection. These patients currently face limited options for surgical reconstruction, but with Dr. Zopf’s research, these 3D scaffolds could have the potential to become synonymous with auricular and nasal reconstruction.

The unique design of these scaffolds is credited to biodegradable polymer with many intricately-designed fine pores that are reabsorbed by the body. The scaffolds are created using an image-based hierarchical design method with a 3D printing process. Dr. Zopf would like to see the scaffolding available for patients as soon as possible pending preliminary clinical trials required by the FDA.

Advancement in this field of biomedical research is particularly important due to its unique ability to conform to the needs of each individual patient. The gold standard available to patients seeking auricular reconstruction is to use the patient’s rib cartilage and then carve this into the shape of an ear. Dr. Zopf has received extensive specialty training in this procedure. Such a technically challenging procedure has many inherent hurdles, including the need for a highly-trained surgeon who can carve auricular cartilage frameworks, the variability with the framework appearance, the need for multiple surgical procedures and morbidity related to the rib donor site. Scaffolds created by auricular CAD and 3D printing will eliminate the technically demanding process and variability, as well as eliminate the need for the donor site. This will allow for more rapid manufacturing while simultaneously improving the patient-specific anatomy. “With the current options available,” says Dr. Zopf, “there is a clear need for what we have to offer.”

This collaboration across departments and specialties exemplifies just one way that UMHS continually strives to become the national leader in health care, biomedical innovation and education. The novel and exciting nature of this technology has the potential to dramatically increase patients’ quality of life and outcomes. There remains a need and potential for more strong collaboration between engineering and medicine in this research. Dr. Zopf adds, “Because of the breadth and depth of [our] expertise, our scaffolds are being designed with clinical implementation in mind.”
This July marked the end of my first year here at the Kresge Hearing Research Institute (KHRI). It has been a year full of excitement, hard work and progress. As I stand on the shoulders of giants, I can see that the future of the KHRI is bright. My predecessors did an excellent job of steering the Institute towards greatness.

The KHRI's mission is to understand and treat hearing and vestibular disorders. We do this by:

• advancing scientific knowledge of the development, function and pathology of hearing and balance;
• translating today's scientific discoveries into tomorrow's clinical treatments;
• training the next generation of scientists and clinician-scientists from the United States and worldwide;
• promoting diversity in academia and facilitate integration of persons with special needs into the research community; and
• educating the general public about hearing health and the benefits of biomedical research.

Since it opened its doors in September 1962, the KHRI has made groundbreaking discoveries that have changed the way we think about and treat hearing loss and vestibular disorders. Researchers creatively attacked problems across the spectrum, from the regeneration of hair cells in the auditory periphery, to central aspects and disorders of auditory processing, such as tinnitus, and discovering a way to induce regeneration of synapses to promote recovery of hearing after noise exposure. The Institute also conducted the first successful clinical trial demonstrating that it is possible to prevent acquired hearing loss.

Successes like these are not possible without the collaborative and academic spirit that thrives at the KHRI. During the last year alone, we implemented a new seminar series for our trainees, created a new initiative to enhance collaboration with biomedical engineering, psychiatry and neurology; and conducted our annual Summer Program for the Deaf and Hard-of-Hearing.

We are making great strides in both research and education, and we will continue these efforts in the years to come. As we look ahead to the next five years, we will enhance and develop our collaborative environment. We will be a hub where multidisciplinary expert collaboration and novel approaches converge to tackle hearing loss. Some of our areas of focus will include regenerative medicine, drug development and delivery, cochlear and brainstem implants, therapies for tinnitus and early detection and diagnosis through genetics. To support this work, we will provide access to state-of-the-art technological resources by creating centralized facilities, also known as cores. This strategy is both cost and space effective.

We'll need all hands on deck to get the work done. In October, we welcome a new faculty member to our Institute, Michael Roberts, Ph.D. Dr. Roberts joins us from The University of Texas at Austin, where he investigated mechanisms used by neurons in the medial superior olive to process sound localization cues. Here at the KHRI, the Roberts Laboratory will aim to establish a deep understanding of the cellular, synaptic and network mechanisms used by neural circuits in the auditory system to extract and encode important features of sounds. We plan to recruit four additional faculty members over the next five years.

A robust research institute requires robust financial support, and governmental support for science continues to fall, as does pharmaceutical investment. As such, we are going to establish partnerships with industry and seek philanthropic support in order to help fund our operations. These partnerships and support will be crucial to our ongoing success.

The KHRI has an extraordinary team of scientists and an unsurpassable team of physicians. Together we work at a great institution and can change the lives of those who struggle with hearing loss and vestibular disorders every day. The possibilities are endless. I look forward to seeing what the next five years will bring.

Best regards,

Gabriel Corfas, Ph.D.
KHRI Spotlight: Corfas Laboratory

The Corfas Laboratory is interested in understanding the roles that interactions between neurons and glia—the two fundamental cell types of the nervous system—play in nervous system development, function and maintenance and in defining the molecular signals that orchestrate these interactions. To this end, the lab employs molecular and cellular biological techniques and uses genetically modified mice.

Using these tools and approaches, the Corfas Laboratory has contributed to the understanding of the function of several types of glia, including oligodendrocytes, Schwann cells, astrocytes, Bergmann glia and supporting cells of the inner ear, as well as the identification of key signaling pathways that mediate the interactions between these glia and their associated neurons. The lab has also found how dysfunction of neuron-glia communication contributes to disorders of the nervous system.

Mechanisms and Roles of Neuron-glia Interactions in the Inner Ear

The mechano-receptive hair cells in the sensory epithelia of the inner ear are surrounded by a population of cells called supporting cells. These non-neuronal cells share many characteristics with glia in other regions of the nervous system. Using genetically modified mice, the lab has shown that supporting cells play critical roles in the formation of synapses between hair cells and sensory neurons and for the survival of the neurons. Using these mice, the lab has also found molecules that can be used to induce the regeneration of hair cells synapses after noise exposure, leading to the recovery of hearing. The lab team is now harnessing these findings to find new strategies for treating hearing loss and vestibular disorders.

Our Team

Dr. Gabriel Corfas is a professor of otolaryngology-head and neck surgery, director of the Corfas Laboratory and the director of the KHRI. Before joining the KRHI, Dr. Corfas was a professor of both neurology and otology & laryngology at Harvard Medical School and the director of basic research in otolaryngology at Boston Children’s Hospital. He has published more than 80 papers on the different aspects of neuroscience. Dr. Corfas holds a M.Sc. in biological sciences from the University of Buenos Aires, Argentina, and a Ph.D. in neurobiology from the Weizmann Institute of Science in Israel.
HEAD AND NECK ONCOLOGY

• Carol R. Bradford, M.D., FACS, received the 2014-2015 Sarah Goddard Power award, on behalf of the Academic Women’s Caucus, for her research, service and support of women on campus and in the community. She was presented with the Distinguished Service Award at the American Head and Neck Society Annual Meeting in Boston. Finally, she was formally inducted into the National Academy of Medicine in October 2015.

• Mark E.P. Prince, M.D., was appointed as assistant dean for graduate medical education at the University of Michigan Medical School, effective August 1, 2015. In this role, Dr. Prince will assist in the oversight of the residency and fellowship programs at UMHS.

• Matthew E. Spector, M.D., received the 2015 Resident Teaching Award from the graduating residents.

KHRI AND CANCER RESEARCH

• Sue Kelch moved from chair to immediate past chair for the National Council of University Research Administrators, Region IV. In addition, she will take on the role of chair of the Nominations Committee, handling the election ballot-process for Region IV.

• Silvana Papagerakis, M.S., M.D., Ph.D., received the Leadership Summit for Women Scholarship from U-M Medical School Faculty Development. Dr. Papagerakis was also invited to participate in the UCUCA SOP Sub-committee.

• Jonathan Sussman and Nick Kline, two research students in the Papagerakis Laboratory, received the UROP Outstanding Award at the UROP Spring Symposium.

• Megan Wampler, a research student in the Ling Laboratory, won a Blue Ribbon for her poster, “Effects of Sound Damage on Guinea Pig Vestibular Function,” presented at the UROP Spring Symposium.

LARYNGOLOGY, RHINOLOGY AND GENERAL OTOLARYNGOLOGY (LaRGO)

• Norman D. Hogikyan, M.D., FACS, received the 2015 Resident Mentorship Award from the graduating residents.

• Melissa Pynnonen, M.D., was inducted into the Triological Society.

NEUROTOLOGY/OTOLOGY


• Margot Beckerman, Au.D., CCC-A, and Melissa Grzesiak, P.T., DPT, were accepted into the 2015 MICHR Practice Oriented Research Training (PORT) Program. The program is a didactic and experiential mentored research training program for clinicians who have not had formal training in clinical research.

PEDIATRIC OTOLARYNGOLOGY

• David J. Brown, M.D., was appointed interim Associate Vice President and Associate Dean for Health Equity and Inclusion at UMHS.

• Jaynee A. Handelsman, Ph.D., CCC-A, began her term as President-Elect of the American Speech-Language-Hearing Association.

• Marci M. Lesperance, M.D., was selected to receive the 2015 Michigan Institute for Clinical and Health Research (MICHR) Distinguished Clinical and Translational Research Mentor Award. This award recognizes efforts and accomplishments of faculty who demonstrate consistent, high-quality mentoring in clinical and translational research.

• Katie Masterson, Au.D., was selected to participate in the PORT Program.

• Marc C. Thorne, M.D., MPH, was appointed Residency Program Director for the Department of Otolaryngology-Head and Neck Surgery, effective July 1, 2015.

RESIDENCY PROGRAM

• Andrew Birkeland, M.D., and Aileen Wertz, M.D., began their roles as Hope Clinic resident coordinators. Thank you to Tiffany Glazer, M.D., and Brittny Tillman, M.D., for their leadership as coordinators during the 2014-2015 year.

• Robert Morrison, M.D., was elected chair of the House Officer Quality and Safety Council. This is a well-deserved leadership role for Bobby, as he has developed and implemented many successful quality improvement initiatives for both the department and the institution.

• Brittny Tillman, M.D., received the American Head and Neck Cancer Society’s Best Resident Basic Science Research Paper Award for the 2015 Translational Research Meeting, Transforming Patient Care through Innovative Research. She was recognized during the April AHNS awards ceremony for her paper, “Targeted Sequencing of an Epidemiologically Low Risk Patient Define Fibroblast Growth Factor Family Aberrations as a Driver of Head and Neck Squamous Cell Carcinoma.”

• Brittny Tillman, M.D.; Aaron Thatcher, M.D.; and Robert Morrison, M.D., placed first, second and third in the Michigan Otolaryngology Society’s 2015 Walter M. Belenky, M.D., Resident Research Award Competition.
Keith A. Casper, M.D.

Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, University of Michigan Medical School

Dr. Casper joined our Division of Head and Neck Oncology in July. He is a familiar face to us, having completed his head and neck fellowship here at U-M. Dr. Casper joins us from the University of Cincinnati Neuroscience Institute, where he worked as a head and neck surgeon since 2009. Dr. Casper will be an important part of our clinical efforts in transoral laser and robotic microsurgery. He is also interested in head and neck cancer research, particularly health outcomes and quality. We are thrilled to have him return to Michigan.

Paul T. Hoff, M.D.

Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, University of Michigan Medical School

Dr. Hoff, a graduate of our residency training program, joined our department in July in a part-time capacity. Dr. Hoff, who works in private practice at Michigan Otolaryngology Surgical Associates and holds an academic appointment at the St. Jospeh Mercy Hospital Graduate Medical Education Program, helps us serve our general otolaryngology patients by staffing our weekly resident clinic. Dr. Hoff will also contribute to our academic missions by training our residents and through his research interests in transoral robotic surgery and sleep surgery. We look forward to Dr. Hoff’s continued contributions.

Michael Roberts, Ph.D.

Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, University of Michigan Medical School

Dr. Roberts joined our Kresge Hearing Research Institute as a faculty member in October. Dr. Roberts received a B.A. in biology from The University of Chicago in 2000 and completed a Ph.D. in cell and molecular biology at The University of Texas at Austin in 2005. As a postdoctoral fellow with Larry Trussell, Ph.D., at the Vollum Institute in Portland, Oregon, Dr. Roberts studied how inhibitory interneurons regulate microcircuit operations in the dorsal cochlear nucleus. As a postdoctoral fellow and research associate with Nace Golding, Ph.D., at The University of Texas at Austin, he investigated mechanisms used by neurons in the medial superior olive to process sound localization cues. The overall aim of the Roberts Laboratory is to establish a deep understanding of the cellular, synaptic and network mechanisms used by neural circuits in the auditory system to extract and encode important features of sounds.

Emily Z. Stucken, M.D.

Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, University of Michigan Medical School

Dr. Stucken joined our division in October. Dr. Stucken completed her Otolaryngology fellowship at the Michigan Ear Institute. Dr. Stucken is an active member of the American Academy of Otolaryngology – Head and Neck Surgery and serves on national committees, including the Otolaryngology Education Committee and the Women in Otolaryngology Development and Mentorship Committee. Dr. Stucken is also involved in humanitarian outreach work and has traveled to Cambodia to perform ear surgery on underserved patients.

Chaz L. Stucken, M.D.

Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, University of Michigan Medical School

Dr. Chaz Stucken joined our division in July. Also a familiar face, Dr. Stucken completed his head and neck oncology fellowship here at U-M in 2014 and went on to complete a facial plastic and reconstructive surgery fellowship at The Ohio State University. Dr. Stucken joins both our Division of Head and Neck Oncology and our Division of Facial Plastic and Reconstructive Surgery/Skull Base Surgery. His clinical practice includes head and neck surgery and cutaneous oncology, and he also participates in our MOHS reconstruction practice. Dr. Stucken also contributes to our SPORE program.

David A. Zopf, M.D., M.S.

Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, University of Michigan Medical School

Dr. Zopf joined our Division of Pediatric Otolaryngology this month. An alum of our residency program, he completed his pediatric otolaryngology fellowship at the University of Washington - Seattle Children’s Hospital. Dr. Zopf’s clinical goals include the creation of a multidisciplinary Microtia/Atresia Clinic with Dr. Jennifer Kim. He also participates on our craniofacial team, with opportunities for new program development there, as well. During residency, Dr. Zopf was very involved in our 3-D printing research, specifically the tracheal splint project. He continues this important work, expanding the program to include microtia and craniofacial applications.
Pediatric Otolaryngology

The best treatment for ear, nose and throat care for children often involves multiple types of specialists working together in close collaboration. Our Division of Pediatric Otolaryngology is led by surgeons with many years of experience, seamlessly working together with pulmonology, audiology, speech-language pathology, patients and their families to achieve optimum results.

PATIENT CARE

This exceptional team provides care for a full range of pediatric conditions affecting the ears, nose, throat and related parts of the head and neck. Conditions treated include hearing disorders and hearing loss, ear disorders, nasal problems, throat disorders, voice and speech problems, head and neck masses and airway disorders.

The division offers a full spectrum of therapies and procedures, including airway reconstruction, laser surgery to remove tumors, tracheotomy, ear tube insertion, sinus surgery, cochlear implants and bone conduction implants. Complete medical and surgical care is provided to infants and children with complex and often rare diseases and conditions. Common procedures are also provided, especially for children who have underlying health problems that can make the procedures potentially hazardous.

Through groundbreaking innovation and unparalleled patient care, the otolaryngology team at C.S. Mott Children’s Hospital provides world class care for children with conditions affecting the ears, nose and throat.

EDUCATION

Education is a core mission of the division, with all faculty members committing numerous hours to teach practicing physicians, fellows, residents, medical students and audiology students. Staff also make important educational contributions, volunteering their time and efforts in the local schools and with statewide organizations to provide educational opportunities for families, educators and other healthcare professionals.

RESEARCH

The division is committed to discovering new knowledge and translating those discoveries into patient care improvements. Research projects include sleep apnea in children, utilizing 3-D printing for clinical applications and genetic hearing loss.

SERVICE

The division believes that all children deserve access to high-quality, innovative patient care. Several of the team members participate in medical mission trips around the world. The division also established the Pediatric Audiology Hearing Aid and Assistive Devices Loaner Program, thanks to generous donations from the Catalyst Club and M.S. Bioworks, LLC. This program provides children with short-term or long term loaner devices when extenuating circumstances, such as insurance coverage, prevent these children from otherwise receiving the technology.

David J. Brown, M.D., Appointed Interim Leader of UMHS Health Equity and Inclusion Efforts

David J. Brown, M.D., was appointed interim associate vice president and associate dean for health equity and inclusion. Dr. Brown, who is serving in these interim roles until a permanent replacement is identified, replaced Carmen R. Green, M.D., who returned to clinical practice and research.

An associate professor of otolaryngology-head and neck surgery, Dr. Brown is the founding member and medical director of the Pediatric Multidisciplinary Aerodigestive Clinic and founding member and course director of the U-M Otolaryngology Essentials Simulation Boot Camp. He also directs the Otolaryngology Diversity Committee, which received a U-M Distinguished Diversity Leader Award for its monthly Diversity Lunch and Learn Series. He joined the U-M Office for Health Equity and Inclusion in 2014 as director of professional development.

Part of the U-M faculty since 2011, he is a member of the Society of University Otolaryngologists Ad Hoc Diversity Committee and a U-M Global REACH faculty associate who collaborates with colleagues at the Komfo Anokye Teaching Hospital (KATH) in Kumasi, Ghana, to bridge otolaryngology educational, technical and research efforts between KATH and the U-M. He also is a member of the Global Tracheostomy Collaborative, which promotes quality and safety for patients with tracheostomies.

Dr. Brown attended Brown University and Harvard Medical School, where he co-chaired the Third World Caucus and the Harvard University Black Graduate Student Conference. He completed his residency in 2003 at the U-M and a pediatric otolaryngology fellowship in 2004 at Children’s Hospital, Boston/Harvard. His first academic appointment was in 2004 at Johns Hopkins University where he was the associate program director of the otolaryngology residency, faculty member and student advisor for the Helen Taussig College, and winner of the George T. Nager Award for Excellence in Teaching.

He worked from 2008-11 at the Medical College of Wisconsin, where he won the Otolaryngology Faculty Teaching Award. He has been honored among the Best Doctors in America since 2009.
MEET OUR CLINICAL FACULTY

David J. Brown, M.D.; Associate Professor, Department of Otolaryngology-Head and Neck Surgery; Interim Associate Vice President and Associate Dean for Health Equity and Inclusion, University of Michigan Health System

Clinical Interests: sleep apnea, chronic ear infections, head and neck masses and tumors, congenital nasal masses, congenital neck masses, stridor, airway disorders, swallowing disorders, vocal fold paralysis, hoarse voice from vocal fold paralysis and swallowing difficulties from vocal fold paralysis fold paralysis.

Research Interests: aerodigestive disorders, pediatric otolaryngology quality of life

Susan L. Garetz, M.D.; Associate Professor, Department of Otolaryngology-Head and Neck Surgery

Clinical Interests: general pediatric otolaryngology, sleep medicine with a special interest in obstructive sleep apnea

Research Interests: identification and treatment of neurocognitive consequences of pediatric obstructive sleep apnea

Glenn E. Green, M.D.; Associate Professor, Department of Otolaryngology-Head and Neck Surgery

Clinical Interests: complex pediatric airway, hearing and language development and care of the child with a congenital syndrome

Research Interests: translational interventions in complex communications disorders involving speech and hearing, including: complex airway reconstruction and speech development, genetic basis for complex syndromal disorders involving speech and hearing, intervention trials and devices for hearing loss and genetic basis of deafness and utility of genetic testing

Jaynee A. Handelsman, Ph.D.; Assistant Professor; Director, Pediatric Audiology; Department of Otolaryngology-Head and Neck Surgery

Clinical and Research Interests: assessment and management of patients with dizziness and balance disorders, impact of potentially otoxic medications on auditory and vestibular function, newborn hearing screening and follow-up, vestibular system involvement in pediatric patients with hearing loss, development of an interdisciplinary team approach to evaluation and management of children with dizziness and/or balance problems and developing an evidence-based approach to the audiologic management of children with unilateral hearing loss

Charles F. Koopmann, Jr., M.D., MHSA, FACS; Professor, Department of Otolaryngology-Head and Neck Surgery

Clinical Interests: cranial base disorders

Research Interests: airway problems and pediatric voice problems and medical ethical issues

Marc M. Lesperance, M.D., M.S., FACS; Professor, Department of Otolaryngology-Head and Neck Surgery; Chief, Division of Pediatric Otolaryngology; ACU Director, Pediatric Otolaryngology Clinic

Clinical Interests: pediatric airway, ear disease and hearing loss, congenital problems

Research Interests: hereditary hearing loss, molecular genetics of hearing loss, genetic testing

Peter P. Passamani, M.D., FACS; Assistant Professor, Department of Otolaryngology-Head and Neck Surgery

Clinical Interests: endoscopic sinus surgery, chronic ear disease

Research Interests: pediatric otolaryngology

Marc C. Thorne, M.D., MPH; Associate Professor, Residency Program Director, Department of Otolaryngology-Head and Neck Surgery

Clinical Interests: pediatric otologic disease including cochlear implantation, pediatric airway

Research Interests: educational research including simulation, clinical and outcomes research

David A. Zopf, M.D., M.S.; Assistant Professor, Department of Otolaryngology-Head and Neck Surgery

Clinical Interests: cleft palate; velopharyngeal insufficiency; ear reconstruction for microtia/anotia; vascular anomalies: hemangiomas, venous malformations, lymphatic malformations; pediatric sleep apnea; pediatric airway disease; pediatric thyroid disease; pediatric sinonasal disease; the spectrum of pediatric ear, nose, and throat conditions

Research Interests: tissue engineering, 3D-printing for clinical applications and surgical simulation, ear reconstruction, outcomes in velopharyngeal dysfunction, pediatric sleep apnea
Congratulations Class of 2015

RESIDENTS

Scott Cronin, M.D., joined our residency program following completion of his medical degree at The Ohio State University. Today Dr. Cronin is practicing at ENT Head and Neck Specialists in Reading, Pennsylvania.

Sarah J. Novis, M.D., joined our residency program after completing her medical degree at Northwestern University. Today Dr. Novis is pursuing a facial plastic and reconstructive surgery fellowship at Farrior Facial Plastic Surgery in Tampa, Florida.

Michael Sim, M.D., joined our residency program following completion of his medical degree at the Loma Linda University School of Medicine. Today Dr. Sim is pursuing a head and neck oncology fellowship at Vanderbilt University in Nashville, Tennessee.

What is one of your favorite memories from residency? Graduation; it represents the culmination of five years of hard work and sacrifice for my family, and it represents fulfillment of a lifelong dream.

What is one of the greatest lessons you’ve learned during your time here at Michigan? Treat everyone with respect: patients, coworkers, families and friends, subordinates.

What advice do you have for current and future trainees? Read more. I’m convinced this will be true as long as there is a residency program at Michigan.

FELLOWS

Nathan J. Gonik, M.D., completed our pediatric otolaryngology fellowship. He is practicing at the Children’s Hospital of Michigan at Wayne State University in Detroit, Michigan.

Andrew D. Kroeker, M.D., completed our skull base surgery fellowship. He is practicing at Kaiser Permanente in Portland, Oregon.

James Y.A. Owusu, M.D., completed our facial plastic and reconstructive surgery fellowship. He is practicing at the University of Texas Health Sciences Center at Houston in Houston, Texas.

Jesse T. Ryan, M.D., completed his head and neck oncology fellowship. He is practicing at the SUNY Upstate Medical Center in Syracuse, New York.

What is one of your favorite memories from residency? I remember the first time I was called to a difficult pediatric airway in the middle of the night and was able to secure the airway. It made me realize how much I had learned in residency and how much depended on it.

What is one of the greatest lessons you’ve learned during your time here at Michigan? It’s all about the people. Working with great people who are passionate about what they do makes everything better.

What advice do you have for current and future trainees? Residency is both exhilarating and exhausting. See as much as you can, learn as much as you can and take time to enjoy it. It goes by so quickly!
S. Ahmed Ali, M.D., completed his B.A. in English at Wayne State University, where he was part of the Disaster Action Team with the Red Cross of Detroit and was a Wayne State University Howard A. Donnelly Award recipient. Dr. Ali graduated from The Ohio State University College of Medicine, where he received the Department of Otolaryngology Student of the Year Award and was inducted into the Alpha Omega Alpha Honor Medical Society. Dr. Ali is also the reigning Intramural Dodgeball League Champion. When he’s not working, he enjoys reading; writing; playing and watching baseball, hockey and football; and working on do-it-yourself home projects.

Jenna Devare, M.D., received her B.S. in biochemistry and her B.A. in French from Indiana University-Bloomington. Dr. Devare completed her medical degree at the Well Cornell Medical College, where she founded the Music and Medicine Orchestra, a 35-member chamber orchestra, and co-chaired the Music and Medicine Initiative, which encourages medical students, physicians and musicians to explore the connections between music and medicine through a partnership with the Juilliard School. In addition to these efforts, Dr. Devare also graduated with a Certificate in Global Health and rotated in post-earthquake Port-au-Prince, Haiti and in head and neck oncology in Bangalore, India. She also earned an Advanced Certificate in Clinical and Translational Investigation through the Weill Cornell Graduate School of Medical Sciences and conducted research projects in otolaryngology and at the intersection of music therapy and palliative care. In her spare time, Dr. Devare enjoys playing the violin in the U-M Life Sciences Orchestra, traveling and cooking.

Carl Michael Truesdale, M.D., earned a B.A. and B.S. at Morehouse College in Atlanta, Georgia, where he graduated summa cum laude with degrees in biology and Spanish. During college, Dr. Truesdale was inducted into Phi Beta Kappa and was active in student government and community service. Dr. Truesdale is a graduate of the Perelman School of Medicine at the University of Pennsylvania. He took a research year to pursue several clinical and basic science research projects and regularly served as a medical student volunteer in the Philadelphia community and as a mentor to medical students. Dr. Truesdale’s other interests include portrait painting, drawing, chess and playing the piano.

Michael Wilson, M.D., received his B.S. in molecular biology from Brigham Young University, where he graduated Magna Cum Laude. Dr. Wilson completed his medical degree at Washington University in St. Louis, where he received a NIDCD Otolaryngology T32 Training Grant and was elected into the Alpha Omega Alpha Honor Medical Society. In addition to these academic accomplishments, Dr. Wilson volunteered with the Nahed Chapman New American Academy, a school for immigrants and political refugees, as well as served as a Scoutmaster with the Boy Scouts of America. In his free time, Dr. Wilson enjoys playing soccer and piano and spending time with his wife and two-year-old.

Danielle Gainor, M.D., is our head and neck oncology fellow. Dr. Gainor completed medical school at the Drexel University College of Medicine and residency at the Cleveland Clinic Foundation. During her residency, Dr. Gainor authored three textbook chapters and two peer-reviewed publications. She also received the Cleveland Clinic Caregiver Celebrations Appreciation Award in 2011 and 2015, as well as the Cleveland Clinic Excellence in Teaching Award in 2015. In her free time, Dr. Gainor enjoys learning new hobbies; participating in outdoor activities, such as swimming, camping and jogging; and spending time with friends and family.

Jennifer Ha, MBBS, is our pediatric otolaryngology fellow. Dr. Ha completed medical school at the University of Western Australia and residency at the Royal Australasian College of Surgeons in Perth. Dr. Ha is first author on 23 publications and has made a combined total of 31 poster and podium presentations at national and international meetings. In her free time, Dr. Ha enjoys eating and traveling.

Ali Razfar, M.D., is our facial plastic and reconstructive surgery fellow. Dr. Razfar completed medical school at the University of Pittsburgh School of Medicine and residency at the UCLA Medical Center.
Mucosal melanoma is a rare form of melanoma, making up only about 1% of melanoma cases. Approximately 50% of mucosal melanomas begin in the head and neck region. Unlike most cases of skin melanoma, mucosal melanoma is not considered to be related to or affected by U.V. exposure, and there are no obvious identified risk factors. Lacking an identifiable culprit and given its rare occurrence, most cases of mucosal melanoma are quite advanced once identified, giving it a poor prognosis.

At Michigan, we believe the key to treating and curing all types of melanoma is to develop earlier detection methods and innovative approaches to treatment. Scott A. McLean, M.D., Ph.D., of our Division of Head and Neck Oncology is researching the role that circulating tumor cells have in the metastasis of melanoma. These circulating cells shed from a primary tumor and circulate in the bloodstream and can serve as seeds for subsequent growth of additional tumors in vital distant organs. By detecting these circulating cells and treating them, we believe we can improve patient outcomes and even cure melanoma.

In April 2015, Dr. McLean founded the Victors Melanoma Research Team to help raise funds for melanoma research here at the U-M Department of Otolaryngology-Head and Neck Surgery.

Victors Melanoma Research Team

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5th Annual Marshall W. Jaeger Memorial Golf Outing

Marshall came to our department in 2007 for throat cancer treatment. He fought his disease with dignity and a sense of humor, but he passed away in June 2010.

Following Marshall’s death, his wife, Donna, and daughter, Nicole, chose to establish the Marshall W. Jaeger Memorial Fund for Head and Neck Cancer Research, which supports research in our department. Marshall was a lover of golf, so Donna and Nicole committed to hosting an annual golf outing for five years, with proceeds benefitting Marshall’s memorial fund.

This past July marked the fifth and final golf outing. The event was a huge success, with 93 golfers participating in Marshall’s memory.

This year’s outing raised $7,515, bringing the five-year fundraising total to $21,208. Every dollar goes to support our head and neck cancer research right here in our department.

Although this year marked the final Marshall W. Jaeger Memorial Annual Golf Outing, we look forward to one more exciting fundraising opportunity: the "Ride for Poppy," tentatively scheduled for 2019. Nicole, who lovingly calls her father "Poppy," will ride her bike across the country. Supporters will have the opportunity to get involved by making a donation to the Marshall W. Jaeger Memorial Fund for Head and Neck Cancer Research. Nicole hopes to raise $20,000 through this effort. We look forward to partnering with her in this grand finale.

Boston for Bridget

Bridget Anne Moloney-Pelto was a loving, dynamic woman with a passion for adventure. In 2011, Dr. McLean diagnosed Bridget with mucosal sinonasal melanoma. Despite receiving a poor prognosis, Bridget embraced life and lived each day to its fullest until her death in November 2014. Her zest for life inspired many, including Dr. McLean. In memory of Bridget, Dr. McLean and members of the Victors Melanoma Research Team ran the Boston Marathon in Bridget’s memory while also raising more than $7,000 for melanoma research.

Tailgate to Tackle Melanoma

This fall, the Victors Melanoma Research Team took their cause to the football stadium with a fundraising tailgate before the University of Michigan vs. Michigan State University football game on Oct. 17. Participants enjoyed great food, provided by Kevin Pelto, Bridget Moloney-Pelto’s husband, all while taking in the sights and sounds of a great U-M tailgate. Guests raised more than $4,000 for melanoma research.

More than 100 fans participated in the Tailgate to Tackle Melanoma.
Pediatric Audiology Hearing Aid and Assistive Devices Loaner Program

Our pediatric audiologists manage hundreds of children with hearing loss, ranging in age from infancy to young adulthood. For children with permanent hearing loss, part of audiology’s role is to select, program and fit appropriate hearing aids, as well as to make recommendations for other educational and support services that may be required. Audiologists typically work with insurance companies to obtain hearing aids, but there are constraints in terms of timing and approved hearing aid models. Also, when hearing aids are lost or broken, there can be delays in getting repaired or replacement hearing aids for children. When aids are no longer within the warranty period, providers may be unable to have the aids repaired or replaced in a timely fashion.

In July 2013, the Catalyst Club, a philanthropic group of self-made professionals based in Michigan, made a $70,000 donation to help establish and support the Pediatric Audiology Hearing Aid and Assistive Devices Loaner Program. Our pediatric audiologists purchased a variety of devices, which are loaned to children for various reasons:

• A device is provided when insurance companies do not cover the appropriate technology.

• If a child's device is damaged or new technology is needed and insurance negotiation is required, a loaner is provided so that there is no lapse in hearing.

• Devices are used to demonstrate the difference that appropriate hearing aids can make in a child's life when parents, or in some cases schools, are reluctant to set aside significant resources for this equipment.

In March 2015, M.S. Bioworks, LLC, a research support service provider based in Ann Arbor, Michigan, made a gift of $20,000 to support the loaner program. This additional funding allowed us to expand our inventory, in turn meeting the needs of more children.

Thanks to the generosity of both the Catalyst Club and M.S. Bioworks, our department is able to provide children with hearing devices on both short-term and long-term bases for a variety of reasons. To date, the program has served more than 100 children.

Be a Victor for Michigan

Philanthropy is a vital resource that allows the Department of Otolaryngology-Head and Neck Surgery to do more teaching and learning and to transfer ground-breaking research into life-saving clinical applications. We rely on private support to help us do this vital work. If you would like to make a gift online or learn about the many opportunities for giving, please visit www.med.umich.edu/oto/giving/.

You may also contact:

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Ann Arbor, MI 48104-6815
734-763-1756
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Thank you for your confidence in us and for supporting our work. There is no more gratifying gift than one that improves the health and health care of our patients.
Making a Dent in the Universe

And while Dr. Beck loves animals, she knew her true passion was people, so in the fall of 1988, Dr. Beck began her medical education at the University of Washington. She enrolled in the WAMI Medical Education Program, a bold program whose mission was to train and prepare physicians to return to and care for patients and communities throughout the Washington, Alaska, Montana and Idaho (WAMI) states. Today, this program, known as WWAMI, is heralded as one of the most innovative medical education and training programs in the country.

During her medical school career, Dr. Beck found herself drawn to otolaryngology, with its balance of surgery and medicine, both of which she enjoyed. “I was also inspired by the challenge of treating pediatric communication problems through speech surgery and hearing restoration,” says Dr. Beck. Thus, otolaryngology became her specialty of choice.

Following completion of her medical degree with honors, Dr. Beck left the Northwest for Ann Arbor and the University of Michigan Otolaryngology Residency Program. Here she embarked on a rigorous training journey that pushed her to be the best physician she could be. “The people I met were so genuine. The Michigan friendships I developed have been long-lasting and the training key to my success.”

After six years of hard work, Dr. Beck graduated from our residency training program and moved back to the Northwest and the University of Washington, where she completed a pediatric otolaryngology fellowship.

Dr. Beck then returned to her home state of Idaho, becoming the first and only pediatric otolaryngologist in the state of Idaho.

The story gets even better from here! As the only pediatric otolaryngologist in Idaho, Dr. Beck helped lead the development of her state’s first children’s hospital, St. Luke’s Children’s Hospital, as well as established the first and only multidisciplinary cochlear implant program in Idaho. To date, the program has cared for over 800 patients with severe hearing loss.

Today Dr. Beck continues to work at St. Luke’s Children’s Hospital in Idaho, although she is now one of two pediatric otolaryngologists in the state; Dr. Beck’s colleague joined the practice last year. Dr. Beck also serves as the division chief and the medical director of the hospital’s cochlear implant program.

Thanks to Dr. Beck’s passion for and commitment to her community, Idaho families can now access high-quality care from the comfort of their own state. And the University of Michigan is proud to have equipped her for this important work.

“I cannot underestimate the importance of being well-trained and ready for anything the medical world throws at you, especially in a community where there isn’t someone to call for back-up. Michigan gave me the skills and confidence needed to take excellent care of my patients.”

Hail, Dr. Beck! Go Blue!

AAO-HNS Annual Meeting Alumni Reception Roundup

Texas. More than 60 alumni and guests joined us at Eddie Deen’s Ranch for a true Texas experience. See photos from the event on SmugMug at http://umoto.smugmug.com/.

We kicked off the evening with a video featuring testimony from alumni and current trainees, who discussed the power of the Michigan legacy and the importance of paying it forward. Watch the video at http://goo.gl/G77z4.

We were honored to welcome alumnus Duane O. Hartshorn, M.D., as our guest speaker. Dr. Hartshorn spoke of his own training experience at Michigan and the impact it has had on his career. He also shared his desire to give back to Michigan and how that desire resulted in his philanthropic gift to help support the Shan R. Baker, M.D., Collegiate Professorship.

Dr. Hartshorn challenged all of us to give back to Michigan. Philanthropy is a vital resource that allows us to do more teaching and learning and to transfer ground-breaking research into life-saving clinical applications. You can help us move the needle forward by giving back. For more information, please contact Jeff Guyton at 734-763-1756 or jeffguy@med.umich.edu.
Reginald F. Baugh, M.D., received the Hinton-Gladney Award from the National Medical Association for outstanding contributions to the field of otolaryngology and service and mentoring in the community.

Amelia F. Drake, M.D., FACS, is vice president of the American Cleft Palate Association and program chair for their April 2016 national meeting.

Tim Guilford, M.D., is proud to announce that ReadiSorb® Glutathione was used in a clinical study documenting absorption and function in support of Th1 immune function against infection with Mycobacterium tuberculosis. The article is online, and Dr. Guilford welcomes comments and further communication on the topic.

Lamont Jones, M.D., received the 2015 Research Scholar Award from the American Academy of Facial Plastic and Reconstructive Surgery for his study, “Assessing the Role of AHNAK Methylation in Keloid Pathogenesis.”

Jon-Paul Pepper, M.D., received the 2015 Research Scholar Award from the American Academy of Facial Plastic and Reconstructive Surgery for his study, "Peripheral Nerve Grafts Engineered from Mature Human Fibroblasts."

Eben Rosenthal, M.D., was named medical director of Stanford Cancer Center. Effective July 1, Dr. Rosenthal coordinates the activities of all Stanford School of Medicine departments and services involved in cancer care, both ambulatory and inpatient.


2016

U-M Sinus and Skull Base Dissection Course
Jan. 16-17, Ann Arbor, MI

Triological Society Combined Sections Meeting
Jan. 22-24, Miami Beach, FL

North American Skull Base Society Annual Meeting
Feb. 12-16, Scottsdale, AZ

Multidisciplinary Symposium on Head and Neck Cancer
Feb. 18-20, Scottsdale, AZ

Spring Fling
March 19, Ann Arbor, MI

World Voice Day Celebration
April 16, Ann Arbor, MI

U-M Head and Neck Dissection Course
April 23-24, Ann Arbor, MI

20th Annual Free Throat Screening Clinic
April Date TBD, Ann Arbor, MI

Combined Otolaryngology Spring Meetings
May 18-22, Chicago, IL

Triological Society’s 119th Annual Meeting at COSM
May 18-22, Chicago, IL

Annual Charles J. Krause, M.D., Lectureship and Residency and Fellowship Graduation
June 24, Ann Arbor, MI

AHNS 9th International Conference on Head and Neck Cancer
July 16-20, Seattle, WA

O RL Essentials Boot Camp
July 9, Ann Arbor, MI

Save the Date: 2016 Michigan Work Society Meeting Oct. 20-22

Mark your calendars for the 2016 Michigan Work Society Meeting, scheduled for October 20-22, 2016. In response to overwhelmingly positive feedback following our last MWS Meeting, the 2016 Academic Meeting and Gala Dinner will once again take place at the Jack Roth Stadium Club. Attendees will enjoy access to the football field and locker rooms. This is an event you don’t want to miss! More information to follow.
University of Michigan Department of Otolaryngology-Head and Neck Surgery Faculty

Carol R. Bradford, M.D., FACS, Department Chair

FACIAL PLASTIC AND RECONSTRUCTIVE SURGERY/CRANIAL BASE SURGERY
Shan R. Baker, M.D., FACS
Michael J. Brenner, M.D., FACS
Jennifer C. Kim, M.D.
Lawrence J. Marentette, M.D., FACS
Erin L. McKean, M.D., MBA, FACS
Jeffrey S. Moyer, M.D., FACS

HEAD AND NECK ONCOLOGY
Carol R. Bradford, M.D., FACS
Keith A. Casper, M.D.
Kelly M. Malloy, M.D., FACS
Scott A. McLean, M.D., Ph.D., FACS
Mark E. Prince, M.D.
Andrew G. Shuman, M.D.
Matthew E. Spector, M.D.
Chaz L. Stucken, M.D.

LARYNGOLOGY, RHINOLOGY AND GENERAL OTOLARYNGOLOGY (LaRGO)
Norman D. Hogikyan, M.D., FACS
Paul T. Hoff, M.D.
Robbi A. Kupfer, M.D.
Melissa A. Pynnonen, M.D.
Jeffrey J. Stanley, M.D.
Jeffrey E. Terrell, M.D.
Mark A. Zacharek, M.D., FACS

HEAD AND NECK ONCOLOGY RESEARCH PROGRAM
J. Chad Brenner, Ph.D.
Thomas E. Carey, Ph.D.
Silvana M. Papagerakis, M.D., M.S., Ph.D.
Gregory T. Wolf, M.D., FACS*

PEDIATRIC LARYNGOLOGY
David J. Brown, M.D.
Susan L. Garetz, M.D.
Glenn E. Green, M.D.
Jaynee H. Handelsman, Ph.D.
Charles F. Koopmann, Jr., M.D., MHSA, FACS
Marci M. Lesperance, M.D., M.S., FACS
Peter P. Passamani, M.D., FACS
Marc C. Thorne, M.D., MPH
David A. Zopf, M.D., M.S.

KRESGE HEARING RESEARCH INSTITUTE
Gabriel Corfas, Ph.D., Director
Richard A. Altschuler, Ph.D.
Gregory J. Basura, M.D., Ph.D.
Sanford C. Bledsoe, Jr., Ph.D.*
Michael J. Brenner, M.D., FACS
David F. Dolan, Ph.D.*
R. Keith Duncan, Ph.D.
Glenn E. Green, M.D.
W. Michael King, Ph.D.
David C. Kohrman, Ph.D.
Marci M. Lesperance, M.D., FACS
Kara Leyzac, Au.D., Ph.D.
Josef M. Miller, Ph.D.*
Silvana M. Papagerakis, M.D., Ph.D.
Bryan E. Pfingst, Ph.D.
Yehoash Raphael, Ph.D.
Michael Roberts, Ph.D.
Jochen Schacht, Ph.D.
Susan E. Shore, Ph.D.

*Active Emeritus