Department of Otolaryngology

The Department of Otolaryngology-Head & Neck Surgery (http://oto.wustl.edu) at Washington University in St. Louis has a rich, 130-year history of leadership in our field that is built on the foundations of academic medicine: patient care, research, training and service. Our past leaders include luminaries in the field of otolaryngology such as John Blasdel Shapleigh, MD, Greenfield Sluder, MD, Lee Wallace Dean, MD, Theodore Walsh, MD, Joseph Ogura, MD, John Fredrickson, MD, Richard A. Chole, MD, PhD, and most recently Craig A. Buchman, MD, FACS. Even from our earliest days, prior to the inception of the McMillan Eye, Ear, Nose and Throat Hospital (circa 1943), excellence has been an integral part of the department’s fabric. A look at former faculty and program graduates reveals many of the true innovators in our field. While we remain humbled by our beginnings and past achievements, we choose not to rest on our laurels. Rather, we aspire to further our commitment to improving patients’ lives by leading our field and its clinical application.

Today more than ever, we are driven to provide the highest quality, cutting-edge patient care that is both safe and effective. Our Washington University physicians and team, together with our Honor Roll Award-winning hospital, Barnes-Jewish Hospital (U.S. News, 2015-16), are second to none in tackling the full spectrum of conditions involving the ear, nose, throat, head and neck. Our basic, translational and clinical research programs are remarkable, providing answers to a variety of relevant questions that build on our foundations of knowledge, lay the groundwork for future clinical trials, and provide cutting-edge patient solutions. Our educational programs for medical and graduate students, physicians in training, and established practitioners are committed to creating a culture of lifelong learning that firmly establishes our next generation of leaders in the field. Our residency program is highly rated by all metrics, providing balanced training across the clinical subspecialties and unique opportunities for growth and development as clinician scientists (T32 training grant) and educators. We are most proud that these activities are ongoing in a work culture that values collegiality, inclusiveness, diversity and mutual respect. The Department of Otolaryngology-Head & Neck Surgery at Washington University in St. Louis is a really outstanding place!

CID at Washington University School of Medicine

The consortium of graduate education, research and clinical programs known today as CID at Washington University School of Medicine was born out of the pioneering efforts of St. Louis physician Max Goldstein, MD. In 1914, he founded the Central Institute for the Deaf (CID), where doctors and teachers worked together to help deaf people. When CID’s school building opened two years later, its auditory/oral methods for instructing deaf children were groundbreaking.

Washington University and CID first joined forces in 1931, when CID’s established teacher training program became the first deaf education undergraduate program to affiliate with a university. Graduate programs in deaf education, audiology, and speech and hearing sciences soon followed.

CID’s research efforts began in the 1930s to study the anatomy and science of hearing. During World War II, CID’s research on hearing loss in military personnel laid the foundation for the field of audiology. CID also pioneered hearing testing and hearing aids and opened the country’s first hearing aid clinic in 1941. In September 2003, a new affiliation transferred CID’s graduate degree programs, research programs and adult audiology clinic, along with its building, to Washington University School of Medicine. The CID school continues to operate on the School of Medicine campus as CID — Central Institute for the Deaf.

Today, these programs continue to work together to fulfill a shared mission to serve people with hearing loss.

Website: http://oto.wustl.edu

Degrees & Requirements

While the Department of Otolaryngology does not offer its own degree, some of the department’s courses are open to students in the MD and MSTP (MD/PhD) programs. Further information about the MD and MSTP degrees can be found in the Degrees & Programs Offered (http://bulletin.wustl.edu/medicine/degrees) section of this Bulletin.

Otolaryngology Course Requirements

Otolaryngology is presented to students in the first-, second-, third- and fourth-year classes. Physical diagnosis skills are taught in the first year. Clinically oriented lectures and a physical diagnosis workshop are presented to second-year students. In the third year of the medical curriculum, four-week elective rotations on one of the services at Barnes-Jewish Hospital or St. Louis Children's Hospital are offered. During this period, there is teaching at the bedside, in the operating room and in the clinic, supplemented by daily afternoon lectures, Grand Rounds on Wednesdays, and an introduction to audiology.

Fourth-year students interested in ENT as a specialty may take a two- to four-week elective designed to give them exposure to patient care, both in the outpatient clinic and the operating room and postoperative setting. An additional four-week elective that provides comprehensive ambulatory experience is offered to students headed for primary care.
Research

M55 Oto 900

The type of research will depend upon the current phase of the research program in each laboratory. Students should contact the director of each laboratory to negotiate.

Pablo M Blazquez, PhD
East McDonnell Science Building
4566 Scott Avenue
Phone: 314-362-1013
Role of the vestibulo-cerebellum and its target nuclei in eye movement control and spatial orientation. We used a range of methodologies: single and multunit recordings, electrical brain stimulation, computational methods, pharmacology and behavioral studies. Our main lines of research are: 1) Signal transformations carried out by the the vestibulo-cerebellum during visual and vestibular stimulation. 2) Physiology of the vestibular nuclei. 3) Role of the cerebellum-brainstem loop in motor learning in the vestibulo-ocular reflex.

Students will be instructed in one or several techniques and are expected to contribute significantly to the development of specific lab projects.

Joel A. Goebel, MD, FACS
McMillan, 9th Floor
Phone: 314-362-7344
Clinical research testing of posture and ocular motor control. Projects include measurement of gaze stabilization during head movement, otolith input into dynamic subjective visual vertical measurements, computerized historical data screening for dizziness, and head-mounted vibrotactile balance prosthesis (BalCap). We welcome students to join these projects at any stage.

Judith E.C. Lieu, MD, MSPH
3S35 Children's Hospital; and McMillan, 9th Floor
Phone: 314-747-8205
Clinical Outcomes Research in Pediatric Otolaryngology. The Clinical Outcomes Research office performs clinical epidemiology and health services research. (Please reference the research elective offered by Dr. Jay Piccirillo in otolaryngology for more details.) These techniques and methodologies are used to investigate clinical problems seen in pediatric otolaryngology. Projects currently underway include the evaluation of quality of life of children with hearing loss, progression of hearing loss in children, and evaluation of unilateral hearing loss, use of functional connectivity MRI to investigate effects of hearing loss in children, and quality of life of parents whose young children have recurrent otitus media. Other projects of the student’s choosing that would utilize these research techniques may also be pursued.

Kevin K. Ohlemiller, PhD
2205 Central Institute for the Deaf
Phone: 314-747-7179
Gene/environment interactions in cochlear injury. We study the interaction of genes and environment that increase cochlear injury due to noise and ototoxic exposure, with an emphasis on how these may yield apparent presbycusis. Because cochlear function and injury is the same in mice and humans, and governed by the same genes, we use mostly mouse models. Methods employed include standard ABR assessment and intra-cochlear recording, quantitative light microscopy, immunohistochemistry, and western blots. We also collaborate to map and perform expression profiling of genes that underlie traits we have discovered. We and our collaborators have identified specific genes and inbred strains of mice that mimic the three major forms of human presbycusis (sensory, neural and strial). Sensory presbycusis appears promoted by alleles and mutations that impair protective factors such as antioxidant enzymes, or that impair ion homeostasis. Neural presbycusis can be modeled by mutations that alter the function of cholinergic receptors. While we are not sure what types of genes and mutations can lead to strial presbycusis, we have discovered four mouse strains that show the key feature of this disease (age-related endocochlear potential reduction), and also show distinct types of strial pathology.

We have shown that some of the same gene alleles and mutations that promote presbycusis also promote cochlear noise injury. Such findings point to an interpretation of sensory presbycusis as principally cumulative injury. We have also published evidence for one or more QTLs that impact the qualitative character of noise injury. Important implications of our findings are (1) that there exists no single “mammalian” archetype of cochlear noise injury, and (2) that injury to the organ of Corti and lateral wall are mechanistically and genetically independent.

Our research is eminently adaptable in difficulty and scale to students’ schedules and other requirements. Students may expect to learn the full range of methods we employ, including physiology, immunohistochemistry, histopathology, and cellular/molecular techniques.

Jay F. Piccirillo, MD
McMillan, 9th Floor
Phone: 314-362-8641
The Clinical Outcomes Research Office of the Division of Research performs basic and applied clinical epidemiology and health services research. Clinical epidemiology is the study of the diagnosis, prognosis, and evaluation of treatment. Health service research is the study of the delivery of health care. The scientific methodology of clinical epidemiology is based on the architecture of clinical research, biostatistics and data processing. Current projects include studying the impact of comorbidities on treatment and outcome for patients with cancer. We also conduct research into the neurobiology, treatment and outcomes for patients with tinnitus. We also use smart-phone technology to capture ecological momentary assessment of tinnitus. Additional projects include exploiting neuroplasticity as
part of olfactory training for patients with anosmia. Using clinical epidemiology methodology, we can also study a variety of other diseases.

Faculty

Department Head
Craig A. Buchman, MD, FACS

Visit our website for more information about our faculty (http://oto.wustl.edu/About-Us/Faculty-Physicians) and their appointments.

A

Marc Bruce Abrams, DDENT
Instructor in Clinical Otolaryngology (primary appointment)
BA University of MO Kansas City 1968
DDENT University of MO Kansas City 1972

Azadeh Afshari, DDENT, MS
Instructor in Clinical Otolaryngology (primary appointment)
DDENT Univ of Texas Med Sch Houston 2014
BS West Virginia University 2004
MS Univ of Texas Med Sch Houston 2013

Nawal Mona Ahmed
Instructor in Clinical Otolaryngology (DDS) (primary appointment)

Murray Howard Appelbaum, DDENT
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
DDENT Washington Univ in St. Louis 1983

B

Sean B Bailey, MD, MS
Instructor in Clinical Otolaryngology (primary appointment)
BS Tulane University 1981
MD Tulane University 1987
MS Tulane University 1988

Jianxin Bao, PHD
Adjunct Associate Professor of Otolaryngology (primary appointment)
PHD University of Florida 1992

Perry J Bartels, DDENT
Instructor in Clinical Otolaryngology (primary appointment)
DDENT Marquette University 1991
BA Ripon College 1986

Lynda Cheryl Berkowitz, MS
Instructor in Otolaryngology (primary appointment)
Instructor in Audiology and Communication Sciences
BS University of Illinois 1981
MS Washington Univ in St. Louis 1983

Pablo M Blazquez Gamez, PHD
Assistant Professor of Otolaryngology (primary appointment)

PHD University of Seville 1998

Joseph P Bradley, MD
Assistant Professor of Otolaryngology (primary appointment)
MD University of Kansas Medical 2008
BS Washington Univ in St. Louis 2003

Gregory Harris Branham, MD
Professor of Otolaryngology (primary appointment)
BS University of South Carolina 1979
MD University of South Carolina 1983

Craig Alan Buchman, MD
Lindburg Professor of Otolaryngology (primary appointment)
Head of the Department of Otolaryngology
BA University of Georgia 1986
MD University of Florida 1990

C

Douglas A Carano, DDENT
Instructor in Clinical Otolaryngology (DDS) (primary appointment)
DDENT University of Iowa 1984
BS University of Iowa 1981

Chad Phadung Chadaratana, MD, UNKNOWN
Instructor in Clinical Otolaryngology (primary appointment)
MD School Not Listed 1964

John Jeonhwan Chi, MD, MS
Assistant Professor of Otolaryngology (primary appointment)
MD SUNY DOWNSTATE MED BROOKLYN 2007
BS Columbia University 2001
MS City College 2003

John N Chiapel
Instructor in Clinical Otolaryngology (primary appointment)

Richard A Chole, PHD, MD
Professor of Otolaryngology (primary appointment)
Professor of Audiology and Communication Sciences
Professor of Developmental Biology
PHD University of Minnesota 1977
MD University of Southern Calif 1969

William W. Clark, PHD, PHD1, MS
Professor of Otolaryngology (primary appointment)
Director of the Program in Audiology and Communication Sciences
Professor of Audiology and Communication Sciences
Professor of Education
PHD University of Michigan 1975
BA University of Michigan 1969
PHD1 University of Michigan 1975
MS University of Michigan 1973

Gene C Cohen, DDENT
Instructor in Clinical Otolaryngology (DDS) (primary appointment)
BS University of Missouri 1971
DDENT University of Missouri 1975

Sheldon C Cohen, DDENT
Instructor in Clinical Otolaryngology (primary appointment)
BS Washington Univ in St. Louis 1973
DDENT Southern Illinois University 1976

William Mark Cohen, MS, DDENT
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
BS Washington Univ in St. Louis 1973
DDENT Southern Illinois University 1976

William Mark Cohen, MS, DDENT
Instructor in Clinical Otolaryngology (primary appointment)
BS Washington Univ in St. Louis 1973
DDENT Southern Illinois University 1976

John Michael Conoyer, MD
Instructor in Clinical Otolaryngology (primary appointment)
MD Vanderbilt University 1975
BS Southeast Missouri St Univers 1971

D

Lisa S. Davidson, MS, PHD
Associate Professor of Otolaryngology (primary appointment)
Associate Professor of Audiology and Communication Sciences
BS East Tennessee State Univers 1985
MS Washington Univ in St. Louis 1987
PHD Washington Univ in St. Louis 2003

Richard Davidson, MS, DDENT
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
MS University of Missouri 1979
BA Washington Univ in St. Louis 1966
DDENT Washington Univ in St. Louis 1970

Sheldon L Davis
Assistant Professor of Clinical Otolaryngology (primary appointment)

Andrew J. Drescher, MD
Assistant Professor of Otolaryngology (primary appointment)
BS Yale University 1998
MD University of Michigan 2002

Norman Steven Druck, MD
Assistant Professor of Clinical Otolaryngology (primary appointment)
MD University of Illinois 1970
BA Washington Univ in St. Louis 1967

Katherine Dunsky, MD
Assistant Professor of Otolaryngology (primary appointment)
MD Saint Louis University 2010

E

Tamara Kay Ehlert, MD
Instructor in Clinical Otolaryngology (primary appointment)
MD Univ of Wisconsin Madison 1983
BA Northwestern University 1979

F

Brian T Faddis, PHD, MS
Assistant Professor of Otolaryngology (primary appointment)
Assistant Professor of Audiology and Communication Sciences
BS University of California 1982
PHD University of California 1994
MS University of California 1989

James A Fernandez, MD
Instructor in Clinical Otolaryngology (primary appointment)
MD Saint Louis University 1981
BS University of Notre Dame 1977

Jeffrey T Fierstein, MD
Assistant Professor of Clinical Otolaryngology (primary appointment)
MD School Not Listed 1971
BA Dartmouth College 1968

Debra Fink, MS, DDENT
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
MS University of Scranton 1981
BA Barnard College 1971
DDENT Washington Univ in St. Louis 1988

Charles Coleman Finley
Adjunct Research Associate Professor of Otolaryngology
(secondary appointment)

Jill B Firszt, PHD, MS
Professor of Otolaryngology (primary appointment)
Professor of Audiology and Communication Sciences
PHD University of Illinois 1998
BS University of Illinois 1978
MS University of Illinois 1982

G

Joel Goebel, MD
Professor of Otolaryngology (primary appointment)
BS University of Notre Dame 1976
MD Washington Univ in St. Louis 1980

Richard I Goldberg, DDENT
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
DDENT Washington Univ in St. Louis 1988
BA Washington Univ in St. Louis 1981

Barry Steven Goldenberg, MS, DDENT
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
MS University of Missouri 1987
BA Fairleigh Dickinson University 1975
DDENT Washington Univ in St. Louis 1982

Debra Ann Gonzalez, MD
Assistant Professor of Otolaryngology (primary appointment)
BS Wellesley College 1982
MD Cornell University 1987

James Dean Gould, MD
Instructor in Clinical Otolaryngology (primary appointment)
BA University of Virginia 1989
MD University of Virginia 1993

Michael Anne Gratton, PHD
Professor of Otolaryngology (primary appointment)
PHD State Univ of NY Buffalo 1989

Christine Hilleary Gustus, MS
Instructor in Otolaryngology (primary appointment)
Instructor in Audiology and Communication Sciences
MS Washington Univ in St. Louis 1975
BS Purdue University 1973

H

Jason M. Hanson, MD
Instructor in Clinical Otolaryngology (primary appointment)
MD Northwestern University 1992
BA Johns Hopkins University 1988

Archie B Harmon Jr, MA, PHD
Instructor in Otolaryngology (primary appointment)
MA University of Central Florida 2006
BA University of Florida 2002
PHD Florida State University 2010

William Hartel
Instructor in Clinical Otolaryngology (primary appointment)

Jay Fredrick Hauser, DDENT
Instructor in Clinical Otolaryngology (primary appointment)
DDENT University of Iowa 1988
BA University of Tulsa 1983

Heather Hayes, PHD, M ED
Associate Professor of Otolaryngology (primary appointment)
Associate Professor of Audiology and Communication Sciences
Director of Deaf Education Studies in Audiology and Communication Sciences
PHD Washington Univ in St. Louis 2009
BA Emory University 1995
M ED Smith College 2005

Jacques A Herzog, MD
Associate Professor of Otolaryngology (primary appointment)
BA University of Missouri 1980
MD University of MO Kansas City 1980

Keiko Hirose, MD
Professor of Otolaryngology (primary appointment)
Professor of Audiology and Communication Sciences
Professor of Pediatrics
Vice Chairman for Pediatrics Dept of Otolaryngology
MD Harvard University 1993

Lawrence M Hoffman, DDENT
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
DDENT Washington Univ in St. Louis 1976
BA Indiana University Bloomington 1972

Dee Jay Hubbard, MA1, MA, PHD
Adjunct Assistant Professor of Otolaryngology (Speech Pathology) (primary appointment)
MA1 University of Missouri 1999
MA University of Iowa 1965
PHD University of Iowa 1967
BS Kansas State University 1962

Timothy Everett Hullar, MD
Adjunct Professor of Otolaryngology (primary appointment)
MD Harvard University 1996
BS Stanford University 1990

J

Ryan Scott Jackson, MD
Assistant Professor of Otolaryngology (primary appointment)
BA Saint Louis University 2004
MD Saint Louis University 2009

Arnold Scott Jacobson, DDENT, MS
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
BA University of Missouri 1970
DDENT Washington Univ in St. Louis 1976
MS University of Missouri 1977

Susan Jerger
Adjunct Research Professor of Otolaryngology (primary appointment)

K

Eugenia Kardaris
Instructor in Clinical Otolaryngology (DDS) (primary appointment)

Tejbeer Kaur, BAS, PHARMD, PHD
Instructor in Otolaryngology (primary appointment)
BAS Delhi University 2005
PHARMD Delhi University 2007
PHD Southern Illinois University 2012

Cristine Nicole Klatt-Cromwell, MD
Assistant Professor of Otolaryngology (primary appointment)
MD University of Oklahoma 2011
BS University of Oklahoma 2007

June Leslie Kleinfeld, DDENT
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
DDENT Washington Univ in St. Louis 1985

George R Kletzker, MD
Assistant Professor of Clinical Otolaryngology (primary appointment)
David Seamus Leonard, MBCHB, MHA
Assistant Professor of Otolaryngology (primary appointment)
BA Dartmouth College 1995
MBCHB National University of Ireland 2000
MHA Harvard University 2012

Jeffery Lichtenhan, PHD, BAS, MSSH
Assistant Professor of Otolaryngology (primary appointment)
Assistant Professor of Audiology and Communication Sciences
PHD University of Kansas 2006
BAS University of Kansas 2000
MSSH University of Kansas Medical 2002

Judith E Lieu, MD
Associate Professor of Otolaryngology (primary appointment)
Vice Chairman Education Department of Otolaryngology
BS University of CA Davis 1988
MD Washington Univ in St. Louis 1992

Michael Lilimars, DDENT
Instructor in Clinical Otolaryngology (DDS) (primary appointment)
DDENT Northwestern University 1984
BA Drury College 1979

Robert Douglas Lowe, DDENT
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
BA Washington Univ in St. Louis 1977
DDENT Washington Univ in St. Louis 1982

Richard W Maack, MD
Instructor in Clinical Otolaryngology (primary appointment)
MD University of Maryland 1985
BS Muhlenberg College 1981

Robert R Mac Donald III, MD
Instructor in Clinical Otolaryngology (primary appointment)
MD Washington Univ in St. Louis 1993
BA Duke University 1989

Kamlesh R Makwana, DDENT
Instructor in Clinical Otolaryngology (DDS) (primary appointment)
DDENT Marquette University 1996
BA Univ of Wisconsin Madison 1992

Marshall S Manne, MS, DDENT
Instructor in Clinical Otolaryngology (DDS) (primary appointment)
BA Washington Univ in St. Louis 1956
MS Indiana University Bloomington 1964
DDENT Washington Univ in St. Louis 1960

Alicia B Matayoshi
Instructor in Clinical Otolaryngology (DDS) (primary appointment)

Claire Matthews, PHD, MA
Adjunct Assistant Professor of Otolaryngology (Speech Pathology) (primary appointment)
PHD University of Kansas 1980
MA University of Kansas 1978
BA University of Kansas 1969

Angela Liu Mazui, PHD, MS
Assistant Professor of Otolaryngology (Pending Executive Faculty Approval) (primary appointment)
BS Georgia Tech 2009
PHD University of North Carolina 2016
MS Tulane University 2010

Scott A McClain, DDENT
Instructor in Clinical Otolaryngology (DDS) (primary appointment)
BS Graceland College 1987
DDENT University of Missouri 1991

Murray D McGrady, MD
Instructor in Clinical Otolaryngology (primary appointment)
BS University of Illinois 1982
MD University of Illinois 1986

Jonathan L McJunkin, MD
Assistant Professor of Otolaryngology (primary appointment)
BS Northwestern University 2001
MD Jefferson Medical College 2005

John W McKinney, MD
Instructor in Clinical Otolaryngology (primary appointment)
MD University of Missouri 1979
BS Southeast Missouri St Univers 1975

Maithilee D Menezes, MD
Assistant Professor of Otolaryngology (primary appointment)
MD Grinnell College 2002
BS Grinnell College 1997

David W. Molter, MD
Professor of Otolaryngology (primary appointment)
MD Duke University 1988
BS Duke University 1980

Stewart Edward Moreland, DDENT
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
DDENT Washington Univ in St. Louis 1983
BA University of Missouri 1978

Nancy Tye Murray, MS, PHD
Professor of Otolaryngology (primary appointment)
Professor of Audiology and Communication Sciences
MS University of Iowa 1979
PHD University of Iowa 1984
BS Texas Christian University 1977

N

Johanna Grant Nicholas, PHD, MA
Adjunct Associate Professor of Otolaryngology (primary appointment)
BA University of Northern Colorado 1978
PHD Washington Univ in St. Louis 1990
MA University of Northern Colorado 1982

O

Margaret A Ogden, MD
Associate Professor of Otolaryngology (primary appointment)
Vice Chairman for Clinical Operations Dept of Otolaryngology
BA Amherst College 1997
MD Washington Univ in St. Louis 2002

Kevin Kenneth Ohlemiller, PHD
Professor of Otolaryngology (primary appointment)
Associate Professor of Audiology and Communication Sciences
PHD Northwestern University 1990
BS Indiana University Bloomington 1983

Amanda J Ortmann, MS, PHD
Assistant Professor of Otolaryngology (primary appointment)
Assistant Professor of Audiology and Communication Sciences
MS Washington Univ in St. Louis 2003
PHD University of Pittsburgh 2012
BS Missouri Baptist College 2001

P

Randal C Paniello, BS1, MS, MD, MBA
Professor of Otolaryngology (primary appointment)
BS University of Illinois 1979
BS1 University of Illinois 1979
MS University of Illinois 1980
MD University of Illinois 1984
MBA Washington Univ in St. Louis 1999

Margaret Grace Peak, PHD, MA
Adjunct Assistant Professor of Otolaryngology (Audiology) (primary appointment)
PHD Columbia University 1975
BS Maryville University 1959
MA Saint Louis University 1961

Jonathan Erik Peelle, BAS, PHD, MS PSYC
Associate Professor of Otolaryngology (primary appointment)
Associate Professor of Psychological & Brain Sciences
BAS Houghton College 1999
PHD Brandeis University 2005
MS PSYC Brandeis University 2002

Michael James Pernoud, DDENT
Instructor in Clinical Otolaryngology (primary appointment)
BA Saint Louis University 1971

DDENT University of Missouri 1975

Supote Phipatanakul, MD
Assistant Professor of Clinical Otolaryngology (primary appointment)
MD Chulalongkorn University 1965

Jay Francis Piccirillo, MD
Professor of Otolaryngology (primary appointment)
Professor of Biostatistics
Professor of Medicine
Professor of Occupational Therapy
Vice Chairman for Research, Dept of Otolaryngology
BA University of Vermont 1979
MD University of Vermont 1985

Patrik Pipkorn, MD
Assistant Professor of Otolaryngology (primary appointment)
MD University of Gothenburg 2007

Gerald Raymond Popelka
Adjunct Professor of Otolaryngology (primary appointment)

Lisa Gayle Potts, PHD, MS
Assistant Professor of Otolaryngology (primary appointment)
Assistant Professor of Audiology and Communication Sciences
PHD Washington Univ in St. Louis 2006
BS Southern Illinois University 1988
MS Washington Univ in St. Louis 1991

R

Jason T. Rich, MD
Assistant Professor of Otolaryngology (primary appointment)
MD Ohio State University 2004
BS Brigham Young University 2000

Julie L Ring, DDENT
Instructor in Clinical Otolaryngology (DDS) (primary appointment)
DDENT University of MO Kansas City 1998
BA University of MO Kansas City 1994

Robert V Rivlin, DDENT, MS
Instructor in Clinical Otolaryngology (DMD) (primary appointment)
BA Rutgers University 1972
DDENT Washington Univ in St. Louis 1979
MS Fairleigh Dickinson University 1975

Mark A Rutherford, PHD
Assistant Professor of Otolaryngology (primary appointment)
BS University of MO St Louis 1999
PHD University of Oregon 2005

S

Alec N Salt, PHD, MS
Professor of Otolaryngology (primary appointment)
PHD University of Birmingham 1977
BS University of East Anglia 1973
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<th>Name</th>
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<td>John Stone Schneider</td>
<td>Assistant Professor of Otolaryngology (primary appointment)</td>
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<td>Allen Sclaroff, DDENT</td>
<td>Professor of Clinical Otolaryngology (Oral Surgery) (primary appointment)</td>
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<td>Karl Shanker, DDENT</td>
<td>Instructor in Clinical Otolaryngology (DDS) (primary appointment)</td>
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<td>Lavinia Sheets, PHD</td>
<td>Assistant Professor of Otolaryngology (primary appointment)</td>
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<td>Jules M Snitzer, DDENT, MS</td>
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<td>Mark Edward Warchol, PHD</td>
<td>Professor of Otolaryngology (primary appointment)</td>
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<td>Rosalie May Uchanski, MS, PHD</td>
<td>Assistant Professor of Otolaryngology (primary appointment)</td>
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<td>Lora Maureen Valente, MS, PHD</td>
<td>Associate Professor of Otolaryngology (primary appointment)</td>
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<td>MS University of Birmingham 1974</td>
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<td>John Stone Schneider, BBA, M PP, MD</td>
<td>Assistant Professor of Otolaryngology (primary appointment)</td>
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<td>Allen Sclaroff, DDENT</td>
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<td>DDENT Temple University 1972</td>
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<td>Karl Shanker, DDENT</td>
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<td>Lavinia Sheets, PHD</td>
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<td>Assistant Professor of Developmental Biology</td>
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<td>BS Pacific University 1996</td>
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<td>PHD Oregon Health Science Univers 2007</td>
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<td>Jules M Snitzer, DDENT, MS</td>
<td>Instructor in Clinical Otolaryngology (DDS) (primary appointment)</td>
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<td>DDENT Washington Univ in St. Louis 1955</td>
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<td>Mark Edward Warchol, PHD</td>
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### W

**Mark Edward Warchol, PHD**
- Professor of Otolaryngology (primary appointment)
- Professor of Audiology and Communication Sciences
- Professor of Neuroscience
- PHD Northwestern University 1989
- BS University of Washington 1981

### T

**Isolde E Thalmann, MA, PHD**
- Professor Emeritus of Otolaryngology (primary appointment)
- MA Washington Univ in St. Louis 1973
- BS Washington Univ in St. Louis 1968
- PHD California Western 1982

**Ruediger Thalmann, MD**
- Professor Emeritus of Otolaryngology (primary appointment)
- Lecturer in Otolaryngology
- MD University of Vienna 1954

### U

**Rosalie May Uchanski, MS, PHD**
- Assistant Professor of Otolaryngology (primary appointment)
- Assistant Professor of Audiology and Communication Sciences
- MS Mass Inst of Technology (MIT) 1981
- BS University of Illinois Chicago 1978
- PHD Mass Inst of Technology (MIT) 1988

### V

**Lora Maureen Valente, MS, PHD**
- Associate Professor of Otolaryngology (primary appointment)
- Associate Professor of Audiology and Communication Sciences
- MS University of Birmingham 1974
- BBA University of Chicago 1997
- M PP University of Chicago 2007
- MD University of Chicago 2007

**Director of Audiology Studies in Audiology and Communication Sciences**
- MS University of Illinois 1975
- BS University of Illinois 1974
- PHD Washington Univ in St. Louis 2006

**Michael Valente, PHD, MS**
- Professor of Otolaryngology (Audiology) (primary appointment)
- Professor of Audiology and Communication Sciences
- BA Adelphi Univ 1970
- PHD University of Illinois 1975
- MS Adelphi Univ 1972

**Wayne A Viens, MD**
- Associate Professor of Clinical Otolaryngology (primary appointment)
- BS Phillips University 1952
- MD University of Oklahoma 1956

### Y

**Tatyana Aleksandrovna Yakusheva, MS, PHD**
- Assistant Professor of Otolaryngology (primary appointment)
- MS Saratov State University 1997
- PHD Russian U of Friendship of Ppl 2002

### Z

**Jose Pedro Zevallos, MPH, MD**
- Dr Joseph B Kimbrough Chair for Maxillofacial Surgery and Prosthodontics in the Washington University Department of Otolaryngology (primary appointment)
- BS Middlebury College 2000
- MPH Univ of Texas Med Sch Houston 2014
Courses


M55 Oto 660A Otolaryngology Clinical Skills
Introductory lecture and group sessions pertaining to the complete head and neck examination. After the one-hour lecture, students will be divided into small groups to learn the otoscopic, nasal, oral cavity and neck examination to be proctored by physicians from the ENT department.
Credit 8 units.

M55 Oto 660B Clinical Topics In Otolaryngology
This course consists of nine introductory lectures on common diseases of the head and neck, including voice disorders, head and neck cancer, hearing loss, management of vertigo, pediatric otolaryngology, salivary gland disorders, sinusitis, otolaryngologic emergencies and facial trauma. Additionally, there is a case-based roundtable focusing on otolaryngology disorders affecting the geriatric population and the involvement of allied health care disciplines in the evaluation and management of these patients. Each lecture is highlighted by case presentations and treatment options in addition to pathophysiology. This course follows the physical examination practicum given earlier in the academic year.
Credit 9 units.

M55 Oto 801 Otolaryngology
Four-week rotation includes evaluation of ENT problems presented to specialists for diagnosis and treatment. The student participates in the clinic, hospital and operating room. This also includes time on the Pediatric ENT Service, Audiology, Voice Laboratory, and Vestibular Evaluation Laboratory. Option of rotation on the ENT Service at VAMC is available.

M55 Oto 803 Pediatric Otolaryngology
The student will actively participate in the clinical office, inpatient consultations, and surgery with the attending staff at St. Louis Children's Hospital. Care would be taken to provide experience in the common problems one would see in primary care pediatrics or family practice. Participation in sub-specialty/ multidisciplinary clinics such as the Cleft and Craniofacial clinic is encouraged. Opportunity will be provided to learn the fundamentals of audiological evaluation. Students participating in this elective will attend academic conferences in both the pediatric and adult divisions.

M55 Oto 820 Practicum in Adult Clinical Audiology
During this rotation, guidance will be provided in the administration and interpretation of audiometric tests, with an emphasis on defining the severity of auditory dysfunction and identifying sites of pathological processes. Theoretical bases of acoustics, anatomy and physiology, and electronics will be reviewed as they relate to auditory assessment. Modification of conventional test paradigms and hearing aid procedures will be covered according to each student's interests and needs.

M55 Oto 831 Neurotology
Students will actively participate in the physical exam, advanced testing and management of patients with balance dysfunction.

Students will attend patient clinic two days a week, and test patients on ENG, rotary chair and computerized platform three days a week. Research participation is welcome with prior arrangements.

M55 Oto 833 Ambulatory Otolaryngology for the Primary Care Physician
This course offers a four-week exposure to ambulatory care of patients with diseases of the head and neck. Eight half-day sessions per week will be offered in attending clinics for general otolaryngology, head and neck cancer, otology and pediatric otolaryngology. Two half-day sessions are reserved for audiology, vestibular lab and voice lab experience. Surgical exposure is available for selected cases as identified by the student and attending physician, but the main goal of this rotation is outpatient diagnosis and management.

M55 Oto 900 Research Elective - Otolaryngology
Research opportunities may be available. If interested, please contact the Department of Otolaryngology.