# **CURRICULUM VITAE**

# PHILLIP ASHLEY WACKYM, M.D., F.A.C.S., F.A.A.P.

#### ADDRESS:

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**DATE OF BIRTH:** December 25, 1957

**PLACE OF BIRTH:** Baltimore, Maryland

**CITIZENSHIP:** United States of America

**MARRIED:** Jeremy JoAlice Miller, M.B.A.

**SON:** Ashton Rhys Wackym, born in Los Angeles.

# **EDUCATION**

California State University, B.A. (Honors) Chemistry, 1980, Fullerton, California. Vanderbilt University School of Medicine, M.D., 1985, Nashville, Tennessee.

# POSTGRADUATE MEDICAL EDUCATION:

General Surgery, Intern, UCLA Center for the Health Sciences, 1985-1986.

Neurological Surgery, Resident, UCLA Hospitals, 1986-1987.

Head and Neck Surgery, Resident, UCLA Hospitals, 1987-1991.

Otology, Neurotology and Skull Base Surgery, Fellow, The University of Iowa, Iowa City, Iowa, 1991-1992.

# **MEDICAL RESEARCH TRAINING:**

Postdoctoral Research Scholar, Department of Anatomy and Cell Biology, UCLA School of Medicine, Brain Research Institute, January 1, 1989 to December 31, 1989, research directors: Paul E Micevych, PhD and Vicente Honrubia, MD.

House Ear Institute: Allen S. Rupley Memorial Clinical Research Fellowship in Histology and Ultrastructure, January through October, 1989, research director: Fred H. Linthicum, Jr., MD.

Karolinska Hospital and King Gustaf V Research Institute: Research Fellow in Otology, Department of Otolaryngology, Stockholm, Sweden, Winter 1985, research director: Dan Bagger-Sjöbäck, MD, PhD.

House Ear Institute: Research Fellow, Otologic Laboratories, Los Angeles, Summer 1983, research director: Fred H. Linthicum, Jr., MD.

Vanderbilt University Medical Center: Independent Study in Pathology, 1982-1985, research director: George F. Gray, Jr., MD.

University of Southern California: Research Fellow in Craniofacial Biology, Laboratory for Developmental Biology, Summer 1982, research director: Harold Slavkin, DDS.

# **SPECIALTY CERTIFICATION:**

Diplomate of the American Board of Otolaryngology, April 7, 1992.

Neurotology, Subspecialty Certification, American Board of Otolaryngology, April 24, 2004.

# **STATE LICENSURE:**

Diplomate of the National Board of Medical Examiners, 1986 (Number 309761).

Board of Medical Examiners, State of California, 1986 to present (Number G058741).

Board of Medical Examiners, State of Iowa, 1991 to 1995 (Number 28265).

Board of Medical Examiners, State of New York, 1995 to 1998 (Number 199371).

Board of Medical Examiners, State of Wisconsin, 1998 to present (*Number 40274*).

Oregon Medical Board, State of Oregon, 2009 to present (Number MD126259).

#### LEADERSHIP DEVELOPMENT

# Fellow of the American College of Healthcare Executives (Candidate)

# <u>Course work completed for Board Certification requirements:</u>

- 1. Strategic Planning: From Formulation to Action. ACHE Cluster Seminar (12 hours of ACHE Category I credit). Scottsdale, AZ, May 16-17, 2011.
- 2. Toxic Behaviors in Healthcare: Creating Systems of Respect to Impact the Double Bottom Line. ACHE Cluster Seminar (12 hours of ACHE Category I credit). Scottsdale, AZ, May 18-19, 2011.

# Course work underway for Board Certification requirements:

- 1. Followership: Increasing Trust, Respect and Pride. Summer 2011 ACHE Self-Study Program (6 hours of ACHE Category I credit).
- 2. Profit Analysis and Cost Allocation. Summer 2011 ACHE Self-Study Program (6 hours of ACHE Category I credit).
- 3. Financial Statements. Summer 2011 ACHE Self-Study Program (6 hours of ACHE Category I credit).
- 4. Developing Proactive Physician Alignment and Employment Practices. ACHE Cluster Seminar (12 hours of ACHE Category I credit). New York, NY, August 10-11, 2011.

# **HONORS:**

William H. Call Research Award, Pacific Coast Oto-Ophthalmological Society, 1986.

William H. Call Research Award, Pacific Coast Oto-Ophthalmological Society, 1988.

Vice President's Research Award, The American Laryngological, Rhinological and Otological Society, Western Section, 1989.

Shirley Baron Research Award, The American Laryngological, Rhinological and Otological Society, Western Section, 1990.

Second Place Award, Basic Science Category, American Academy of Otolaryngology-Head and Neck Surgery / Association for Research in Otolaryngology, 1990.

First Place Award, Basic Science Category, American Academy of Otolaryngology-Head and Neck Surgery / Association for Research in Otolaryngology, 1991.

UCLA Head and Neck Surgery Teaching Award, 1991.

Nicholas Torok Vestibular Award of the American Neurotology Society, 1992.

Shirley Baron Research Award, The American Laryngological, Rhinological and Otological Society, Western Section, 1993.

Edmund Prince Fowler Award, The American Laryngological, Rhinological and Otological Society, 1996.

Honor Award, The American Academy of Otolaryngology-Head and Neck Surgery, 1998.

Magna Cum Laude Citation, The American Society of Neuroradiology, Scientific Exhibit Award, 39<sup>th</sup> Annual Scientific Meeting of the Society, Boston, Massachusetts, 2001.

Elected to membership in the Collegium Oto-rhino-laryngologicum Amicitiae Sacrum (CORLAS) August 2002, an international organization of otolaryngologist clinician-scientists, established in 1926, The Netherlands: worldwide membership – over 300 from 50 countries; 20 members from the United States of America.

Distinguished Service Award, The American Academy of Otolaryngology-Head and Neck Surgery, 2007.

Faculty Teaching, Mentorship and Professionalism Award, Medical College of Wisconsin, 2009.

# PEER RECOGNITION:

Best Doctors in America, Woodward/White, Inc., Aiken, SC (2001-2012)

Guide to America's Top Pediatricians (Pediatric Otology), Consumers' Research Council of America (2007-2010)

Top Doctors in America, Castle Connolly Medical Ltd. Directory (2001-2011)

Top Doctors in Milwaukee, Milwaukee Magazine (2000, 2004)

Top Doctors in Portland, Portland Monthly Magazine (2011)

Who's Who in America (2001-2005); Who's Who in the World (2003); Who's Who in Science and Engineering (2000-2009); and Who's Who in Medicine and Healthcare (2002-2011)

# **ACADEMIC AND CORPORATE APPOINTMENTS:**

Assistant Professor, Division of Head and Neck Surgery, Department of Surgery, UCLA School of Medicine, July 1, 1991 to March 31, 1995, Dr. Gerald S. Berke, Chief.

Visiting Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, University of Iowa College of Medicine, July 15, 1991 to June 30, 1992, Dr. Brian McCabe, Chairman.

Associate Professor, Department of Otolaryngology, The Mount Sinai School of Medicine, City University of New York, April 1, 1995 to June 30, 1998, Dr. Mark L. Urken, Chairman.

John C. Koss Professor and Chairman, Department of Otolaryngology and Communication Sciences, Professor of Physiology, Medical College of Wisconsin, July 1, 1998 to January 31, 2009.

Professor, Department of Otolaryngology and Communication Sciences, Professor of Physiology, Medical College of Wisconsin, February 1, 2009 to November 9, 2009.

Vice President of Research, Legacy Research Institute and Director of the Legacy Institute of Surgical Education and Innovation, Legacy Health, Portland, Oregon, November 1, 2009 to present.

President, Ear and Skull Base Center, P.C., Portland, Oregon, November 1, 2009 to present.

#### **HOSPITAL APPOINTMENTS:**

Attending Head and Neck Surgeon, UCLA Center for the Health Sciences, Los Angeles, California	1991 – 1995
Attending, The Mount Sinai Hospital, New York, New York	1995 – 1998
Attending Physician and Chief, Otolaryngology-Head and Neck Surgery Froedtert Memorial Lutheran Hospital, Milwaukee, Wisconsin	7, 1998 – 2009
Director, Froedtert and Medical College of Wisconsin Acoustic Neuroma Program, Milwaukee, Wisconsin	1998 – 2009
Medical Director, Cochlear Implant Program, Children's Hospital of Wisconsin, Milwaukee, Wisconsin	1999 – 2009
Attending, Children's Hospital of Wisconsin, Milwaukee, Wisconsin	1999 - 2009
Attending, Legacy Portland Hospitals, Portland, Oregon	2009 – present

# **PROFESSIONAL SOCIETIES:**

American Otological Society, Member (Elected 1997, 140 Active Fellows in the USA) American Neurotology Society, Member (Elected 1997) American Physiological Society, Member (Elected 2006) Association for Research in Otolaryngology (1989) Bárány Society, Member (1988) (International Basic Science and Clinical Vestibular)

Politzer Society (1990) (International Otology Society)

Sir Charles Bell Society (1992)

Paul H. Ward Society (1991)

Fellow, The American Laryngological, Rhinological and Otological Society (1996)

Fellow, American Academy of Otolaryngology-Head and Neck Surgery (1992)

Fellow, Leksell Gamma Knife Society

Fellow, American College of Surgeons (1994)

Fellow, American Academy of Pediatrics (2005)

Member, American Medical Association

Member, American College of Healthcare Executives

Member, Wisconsin Society of Otolaryngology-Head and Neck Surgery (1999-2009)

Member, Milwaukee Head and Neck Society (1999-2009)

Member, Society of University Otolaryngologists

Member, Association of Academic Departments of Otolaryngology

Member, Alexander Graham Bell Association for the Deaf and Hard of Hearing

Member, Society for Neuroscience

Member, Society for Ear, Nose and Throat Advances in Children (SENTAC) (2006)

Life Member, Millennium Society (American Academy of Otolaryngology – Head and Neck Surgery Foundation) (also Founding Member)

Member, Longmire Surgical Society (UCLA)

Member, Walter Zeit Fellowship (Medical College of Wisconsin)

Member, Canby Robinson Society (Vanderbilt University School of Medicine)

Member, Consortium of American College of Surgeons-Accredited Education Institutes

Member, Collegium Oto-rhino-laryngologicum Amicitiae Sacrum (CORLAS) (2002)

## TRAINING RECORD:

**Predoctoral Trainees:** Since 1993 there have been 13 predoctoral trainees.

**Postdoctoral Trainees:** Since 1993 there have been 14 postdoctoral trainees.

## Awards Won By Postdoctoral Trainees:

1994 Second Place, Basic Science Category, American Academy of Otolaryngology-Head and Neck Surgery / Association for Research in Otolaryngology Research Forum Paper Competition, Project: "Subcellular innervation patterns of calcitonin gene-related peptidergic terminals in the chinchilla vestibular periphery," (Akira Ishiyama, M.D.).

1995 Shirley Baron Research Award, The Triological Society, Western Section, Project: "Distribution of efferent cholinergic terminals and α-bungarotoxin binding to putative nicotinic acetylcholine receptors in the human vestibular end-organs," (Akira Ishiyama, M.D.).

# Awards Won By Postdoctoral Trainees (continued):

1995 Nicholas Torok Vestibular Award of the American Neurotology Society, Project: "Molecular and biochemical characterization of the efferent cholinergic system in the human vestibular periphery: Implications for pharmacotherapy." (Akira Ishiyama, M.D.)

2002 Henry Williams Research Award, First Place, The Triological Society, Middle Section, Project: "A novel Connexin 26 compound heterozygous mutation results in deafness." (Kevin C. Harris, M.D.)

2002 Second Place Award, Basic Science Category, American Academy of Otolaryngology-Head and Neck Surgery / Association for Research in Otolaryngology, Project: "Gene discovery using a neurofibromatosis type 2 (NF2) vestibular schwannoma cDNA library." (Stacey L. Halum, M.D.)

2003 Trainee Award, American Neurotology Society, Project: "Serial Analysis of Gene Expression (SAGE) in Neurofibromatosis Type 2 Associated Vestibular Schwannoma." (Stacey L. Halum, M.D.)

2004 Third Place Award, Basic Science Category, American Academy of Otolaryngology-Head and Neck Surgery / Association for Research in Otolaryngology, Project: "Selective Acquisition of Individual Cell Types in the Vestibular Periphery for Molecular Biology Studies." (Ricardo Cristobal, M.D., Ph.D.)

2007 William P. Potsic Honorable Mention Award for Basic Science Research, American Society of Pediatric Otolaryngology, Project: "MUC2 Expression in Human Middle-Ear Epithelium of Patients with Otitis Media." (Matthew L. Ubell, M.D.)

## Awards Won By Predoctoral Trainees:

2000 Medical College of Wisconsin/Marquette Medical Alumni Association Outstanding Presentation Award, Ninth Annual Graduate and Medical Student Research Poster Presentations, Project: "Radiation Hybrid Mapping of Eleven Alpha and Beta Nictotinic Acetylcholine Receptor Subunit Genes in the Rat." October 20, 2000. (Jeffrey Tseng).

2000 Armand J. Quick Award for Outstanding Senior Medical Students in Biochemistry, Medical College of Wisconsin, Project: "*Biophysics of MRI – Cochlear Implant Internal Magnet Interactions*." May 10, 2000. (Robert E. Sonnenburg).

2007 Armand J. Quick Award for Outstanding Senior Medical Students in Biochemistry, Medical College of Wisconsin, Project: "In Silico Analysis of Gene Expression in the Vestibular Periphery." October 11, 2007. (Joseph P. Roche).

# Current Faculty Appointments of Past Research Trainees:

- Akira Ishiyama, M.D., Professor, Division of Head and Neck Surgery, Department of Surgery, David Geffen UCLA School of Medicine, Los Angeles, California.
- Seth H. Dailey, M.D., Associate Professor, Division of Otolaryngology, Department of Surgery, University of Wisconsin at Madison.
- Elizabeth H.Y. Toh, M.D., Associate Professor, Department of Otolaryngology-Head and Neck Surgery, Boston University School of Medicine, Boston, Massachusetts.
- David R. Friedland, M.D., Ph.D., Associate Professor and Chief of Otology and Neurootologic Skull Base Surgery, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, Milwaukee, Wisconsin.
- Joseph E. Kerschner, M.D., Professor and Chief, Division of Pediatric Otolaryngology, Department of Otolaryngology and Communication Sciences, Past CEO of the Children's Specialty Group and Senior Associate Dean for Clinical Affairs, the Medical College of Wisconsin.
- Valerie A. Flanary, M.D., Associate Professor, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, Milwaukee, Wisconsin.
- Jill B. Firszt, Ph.D., Associate Professor, Department of Otolaryngology, Washington University School of Medicine, St. Louis, Missouri.
- Christina L. Runge, Ph.D., Associate Professor, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, Milwaukee, Wisconsin.
- Stacey L. Halum, M.D., Assistant Professor and Research Director, Department of Otolaryngology, Indiana University School of Medicine, Indianapolis, Indiana.
- Stacey L. Ishman, M.D., Associate Professor, Department of Otolaryngology-Head and Neck Surgery, Johns Hopkins University School of Medicine, Baltimore, Maryland.

#### **FACULTY RECRUITMENT:**

# Medical College of Wisconsin Department of Otolaryngology and Communication Sciences

Joseph E. Kerschner, MD, 1998 (Assistant Professor [Medical College of Wisconsin])

Jill B. Firszt, PhD, 1999 (Assistant Professor [Carle Clinic])

Todd A. Loehrl, MD, 1999 (Assistant Professor [Johns Hopkins Hospital])

Paul Popper, PhD, 1999 (Assistant Professor [UCLA])

John S. Rhee, MD, MPH, 1999 (Assistant Professor [University of Miami]; currently John C. Koss Professor and Chairman, Medical College of Wisconsin)

Timothy L. Smith, MD, MPH, 1999 (Associate Professor [Vanderbilt University])

Joseph A. Cioffi, PhD, 2002 (Assistant Professor [Anthrogenesis Corporation])

Albert L. Merati, MD, 2001 (Associate Professor [University of Kansas])

David R. Friedland, MD, PhD, 2002 (Assistant Professor [Johns Hopkins Hospital])

Charles J. Harkins, MD, 2002 (Associate Professor [Private Practice])

Harvey Kleiner, MD, 2002 (Associate Professor [Private Practice])

Sarvi S. Nalwa, MD, 2002 (Assistant Professor [University of Iowa])

William F. Prudlow, MD, 2002 (Associate Professor [Private Practice])

Nalin Patel, MD, 2002 (Assistant Professor [Johns Hopkins Hospital])

Christina L. Runge, PhD, 2003 (Assistant Professor [Medical College of Wisconsin])

Joel H. Blumin, MD, 2005 (Associate Professor [University of Pennsylvania])

Rebecca Duke, MD, 2006 (Assistant Professor [Medical College of Wisconsin])

Becky L. Massey, MD, 2006 (Assistant Professor [Vanderbilt University])

Cecille G. Sulman, MD, 2006 (Assistant Professor [Northwestern University])

Nikki Johnston, PhD, 2006 (Assistant Professor [Wake Forest University])

Maureen T. Hannley, PhD, 2007 (Associate Professor [American Academy of Otolaryngology – Head and Neck Surgery Foundation])

David M. Poetker, MD, 2007 (Assistant Professor [Oregon Health & Science University])

Kathy Shim, PhD, 2007 (Assistant Professor [UCSF])

David J. Brown, MD, 2008 (Assistant Professor [Johns Hopkins Hospital])

Robert H. Chun, MD, 2008 (Assistant Professor [Children's National Medical Center])

Wenzhou Hong, DVM, PhD, 2008 (Assistant Professor [Wake Forest University])

Jonathan Bock, MD, 2009 (Assistant Professor [Vanderbilt University])

# FACULTY/LEADERSHIP RECRUITMENT:

Legacy Research Institute Legacy Health

Joseph A. Cioffi, PhD, 2010 (Senior Director of Research Administration [Medical College of Wisconsin])

Gregory B. Timmel, DVM, 2010 (Director of Comparative Medicine [UC Berkeley])

Detlev Boison, PhD, 2010 (Director of Basic and Translational Research [Legacy Research Institute])

Alar Mirka, MD, PhD, 2011 (Director of Clinical Research [Legacy Medical Group])

Benjamin K. Yee, Ph.D., 2011 (Senior Scientist [Laboratory of Behavioural Neurobiology, Swiss Federal Institute of Technology, Zürich])

Jennifer A. Ratigan, AuD, 2011 (Assistant Scientist [Arizona Ear & Hearing, Phoenix])

## Supervised\* Presentations By Trainees:

\*Supervision process involved mentoring until completion of the basic or clinical research, including: study design; laboratory education; directing and developing problem solving skills; analysis of data; summary of the results; and presentation of the results at a national or international meeting.

Since 1993, there have been 37 supervised presentations by trainees.

# ADMINISTRATIVE APPOINTMENTS AND ACADEMIC SERVICE:

# **PAST ADMINISTRATIVE APPOINTMENTS:**

- John C. Koss Professor and Chairman, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, 1998 to 2009.
- Chief, Ear Service (Otology and Neuro-otology), Department of Otolaryngology, Mount Sinai School of Medicine, 1996 to 1998.
- Co-Director, Mount Sinai Hearing, Facial Nerve and Balance Disorders Program (Co-Director, Bernard Cohen, M.D., Department of Neurology), The Mount Sinai Medical Center, 1995 to 1998.
- Director, Temporal Bone and Molecular Biology Laboratories, Department of Otolaryngology, The Mount Sinai School of Medicine, 1995 to 1998.
- Director, Temporal Bone and Molecular Biology Laboratories, Goodhill Ear Center, 1991 to 1995.
- Board of Directors, UCLA Victor Goodhill Ear Center, UCLA School of Medicine, 1993 to 1995.

Member, Brain Research Institute, UCLA School of Medicine, 1993 to 1995.

## NATIONAL ACADEMIC SERVICE:

#### National Institutes of Health:

- 1993: Member, Expert Panel for Balance and Balance Disorders, 1994 National Strategic Research Plan, National Institute on Deafness and Other Communication Disorders, National Institutes of Health, Bethesda, Maryland.
- 1994: Participant, Program Planning Workshop, *Training Researchers for the Next Century in the Communication Sciences*, National Institute on Deafness and Other Communication Disorders, National Institutes of Health, Bethesda, Maryland. May 25-26, 1994.
- 1994: *Ad Hoc* Member, Special Emphasis Panel, Small Grant Program (R03) Study Section, Division of Research Grants, National Institutes of Health, Bethesda, Maryland.
- 1994: Presentation of the Report from the Expert Panel for Balance and Balance Disorders to the National Advisory Board of the National Institute on Deafness and Other Communication Disorders, National Institutes of Health, Bethesda, Maryland. September 9, 1994.

## National Institutes of Health (continued):

- 1995 and 1996: *Ad Hoc* Member, Hearing Research Study Section (HAR), Division of Research Grants, National Institutes of Health, Bethesda, Maryland.
- 1996-1998: Member, Hearing Research Study Section (HAR), Division of Research Grants, National Institutes of Health, Bethesda, Maryland. Appointment dates: July 1, 1996 to March 4, 1998.
- 1997: Advisory Consultant, National Institute on Deafness and Other Communication Disorders, Programmatic Review of the NIDCD National Temporal Bone, Hearing and Balance Pathology Resource Registry Mechanism, "Perspectives for the Registry's Significance as a Resource for Current and Future Research," Special Evaluation Panel, National Institutes of Health, Bethesda, Maryland. February 27, 1997.
- 1998-2000: Member, Integrative & Functional and Cognitive Neuroscience 6 Study Section (IFCN-6), Center for Scientific Review, National Institutes of Health, Bethesda, Maryland. Appointment dates: March 5, 1998 to June 30, 2000.
- 1999: Chair, Strategic Planning Group, National Institute on Deafness and Other Communication Disorders, National Institutes of Health, Bethesda, Maryland.
- 2000: Chair, Special Emphasis Panel, Integrative & Functional and Cognitive Neuroscience 8 Study Section (IFCN-8), Center for Scientific Review, National Institutes of Health, Bethesda, Maryland. December 19, 2000.
- 2000, 2001, 2003, 2004, 2005: Special Emphasis Panel, Integrative, Functional and Cognitive Neuroscience 6/8 Study Sections (IFCN-6, or IFCN-8), NIH/CSR.
- 2007: NIDCD Workshop for New Physician-Investigators in Communication Disorders: Strategies for Success, Invited Speaker October 29, 2007.
- 2009: Special Emphasis Panel, ZRG1 IFCN-E (04) Study Section, NIH/CSR.
- 2010: Special Emphasis Panel, ZRG1 IFCN-E (04) Study Section, NIH/CSR.

## Other National and International Academic Service:

- 1995-present: Member, Scientific Advisory Council of the NIDCD National Temporal Bone, Hearing and Balance Pathology Resource Registry.
- 1991-1997: Hearing and Equilibrium Committee, Subcommittee on Equilibrium, American Academy of Otolaryngology-Head and Neck Surgery Foundation.
- 1993-1999, 2002-2006 (Chair): Research Advisory Committee, American Academy of Otolaryngology-Head and Neck Surgery Foundation.
- 1993-1996: Task Force on New Materials for the American Academy of Otolaryngology-Head and Neck Surgery Foundation, Inc., and the American Board of Otolaryngology.
- 1993-1999, 2003-2006: Travel Awards Committee, Association for Research in Otolaryngology.
- 1994-2002: Guest Examiner (otology) for the Oral Examination of the American Board of Otolaryngology (1994, 1995, 1996, and 2002).

# Other National and International Academic Service (continued):

- 1995-1998: International Committee, Association for Research in Otolaryngology.
- 1996-2001: Home Study Course Faculty (Congenital and Pediatric Disorders), American Academy of Otolaryngology-Head and Neck Surgery Foundation. Chairman, Home Study Course Faculty (Congenital and Pediatric Disorders), September 2000 to September 2001.
- 1996-2000: Member, Grant Review Study Section, Deafness Research Foundation.
- 1996: Representative of the American Academy of Otolaryngology Head and Neck Surgery to the American Association for the Advancement of Science Section on Biological Sciences.
- 1996-2001: Member, Research Committee, American Neurotology Society.
- 1997-1998: Nominating Committee, Association for Research in Otolaryngology.
- 1997-1998: Member, Research Awards Committee, The American Laryngological, Rhinological and Otological Society.
- 1997-1999: Chairman, Subcommittee on Grants and Prizes; Member, Research Advisory Committee, American Academy of Otolaryngology-Head and Neck Surgery Foundation.
- 1997-2000, 2003-2006: Member, Physician Research Training Committee, Association for Research in Otolaryngology.
- 1997-2002: Member, Vestibular Committee, American Neurotology Society.
- Member, Protocol Writing and Review Committee of the Executive Policy Board of the Otolaryngology Clinical Trials Cooperative Group (NIH/NIDCD, 1U01DC03209).
- 1997-2002: Member, Scientific Advisory Committee, Otolaryngology Clinical Trials Cooperative Group (NIH/NIDCD, 1U01DC03209).
- 1998-2001: Long Range Planning Committee, Association for Research in Otolaryngology.
- 1999-2001: Board of Governors, American Academy of Otolaryngology Head and Neck Surgery, representing the Wisconsin Society of Otolaryngology-Head and Neck Surgery.
- 2000-present: Member, Tinnitus Research Consortium.
- 2000-2006: Member, Research Committee, American Hearing Research Foundation.
- 2001-2002: Secretary/Treasurer-Elect, Middle Section, American Laryngological, Rhinological and Otological Society, Inc.
- 2001-2002: Coordinator-Elect for Research, American Academy of Otolaryngology-Head and Neck Surgery Foundation.
- 2002-2006: Coordinator for Research, American Academy of Otolaryngology-Head and Neck Surgery Foundation.

# Other National and International Academic Service (continued):

- 2002-2006: Member, Board of Directors, American Academy of Otolaryngology-Head and Neck Surgery Foundation.
- 2002-2006: Secretary/Treasurer, Middle Section, American Laryngological, Rhinological and Otological Society, Inc.
- 2003-2006: Member-at-Large, Council, Association for Research in Otolaryngology.
- 2003-2010: Board of Directors, Otology and Neurotology, Inc. (formerly American Journal of Otology, Inc.), American Otological Society Representative.
- 2004-2005: Vice President, Board of Directors, Otology and Neurotology, Inc. (formerly American Journal of Otology, Inc.).
- 2005-2006: President, Board of Directors, Otology and Neurotology, Inc. (formerly American Journal of Otology, Inc.).
- 2004: Member, Eye and Ear Foundation Scientific Advisory Board, Pittsburgh, Pennsylvania.
- 2004, 2005, 2010: Guest Examiner for the Oral Examination of the American Board of Otolaryngology Certificate of Added Qualification in Neurotology.
- 2005: Member, Grant Review Study Section, Biotechnology and Biological Sciences Research Council, United Kingdom.
- 2004-2007: Vice President/Treasurer, US Group, Collegium Oto-rhino-laryngologicum Amicitiae Sacrum (CORLAS).
- 2007-2015: President, US Group, Collegium Oto-rhino-laryngologicum Amicitiae Sacrum (CORLAS).
- 2008-2015: Second Secretary, Collegium Oto-rhino-laryngologicum Amicitiae Sacrum (CORLAS).
- 2015-2016: President, Collegium Oto-rhino-laryngologicum Amicitiae Sacrum (CORLAS).
- 2006-2007: Vice President-Elect, Middle Section, American Laryngological, Rhinological and Otological Society, Inc.
- 2007-2008: Vice President, Middle Section, American Laryngological, Rhinological and Otological Society, Inc.
- 2006-2007: President-Elect, Association for Research in Otolaryngology.
- 2007-2008: President, Association for Research in Otolaryngology.
- 2006-2009: Member, Council, American Laryngological, Rhinological and Otological Society, Inc.
- 2006, 2007: Member, Thesis Review Committee, American Laryngological, Rhinological and Otological Society, Inc.
- 2007: President, Paul H. Ward Society.

# Other National and International Academic Service (continued):

2007-2015: Secretary, Politzer Society.

2008-2009: Chair, Nominating Committee, Association for Research in Otolaryngology.

2008-2014: Senior Examiner, American Board of Otolaryngology.

# UNIVERSITY, HOSPITAL AND CORPORATE ADMINISTRATIVE SERVICE:

Member, Senior Management Council, Legacy Health, 2009 to present.

Member, Senior Physician Leadership Group, Legacy Health, 2009 to present.

Chair, Technology Assessment Committee, Legacy Heath, 2009 to present.

Member, Board of Directors, Medical College Physicians, Medical College of Wisconsin, 1998-2009.

Member, Executive Committee of the Faculty, Medical College of Wisconsin, 1998-2009.

Residency Program Director, Otolaryngology-Head and Neck Surgery, Medical College of Wisconsin Affiliated Hospitals, 1998-2005.

Director, Froedtert and Medical College of Wisconsin Acoustic Neuroma Program, 1998-2009.

Chief, Section of Pediatric Otology, Medical College of Wisconsin and Children's Hospital of Wisconsin, 1998-2009.

Medical Director, Koss Cochlear Implant Program, Medical College of Wisconsin, Froedtert Hospital and Children's Hospital of Wisconsin, 1998-2009.

Medical Director, Koss Hearing and Balance Center, Medical College of Wisconsin and Froedtert Hospital, 1998-2009.

Member, Medical Executive Committee, Froedtert Hospital, 2002-2009.

Medical College of Wisconsin Search Committee Service:

- Chair, Department of Neurosurgery (Committee Member 1998-1999; and 2008)
- Director, Human and Molecular Genetics Center search (Committee Member 1999)
- Chief, Division of Hematology and Oncology, Department of Medicine (Committee Member 1999-2000)
- Chair, Department of Neurology (Search Committee Chairman, 2000-2001)
- Director, General Clinical Research Center (Committee Member 2004-2005)

Member, Joint Space Committee, Medical College Physicians, 2004-2007.

Member, Cancer Center Ambulatory Planning Committee, 2005-2008.

Member, Dean's Committee, Zablocki VAMC, 2002-2003, 2005-2007.

Member, Off-Site Practice Development Committee, Children's Specialty Group, 2006-2008.

# MEDICAL DEVICE INDUSTRY RELATIONSHIPS:

Member, Surgeons Advisory Board, Cochlear Americas, Englewood, Colorado, 2000 to present.

Member, Advanced Bionics Auditory Medical Advisory Council, Advanced Bionics Corporation, Valencia, California, 2005 to 2010.

Member, Surgical Advisory Board, Med-El Corporation, Durham, North Carolina, 2008 to present.

Member, Advisory Board, Otomed Inc., Lake Havasu City, Arizona, 2004 to present.

# **PAST UNIVERSITY COMMITTEE SERVICE:**

Member, Board of Directors, Association of the Attending Staff, Mount Sinai Medical Center, 1995 to 1998.

Member, Research Committee, Department of Otolaryngology, Mount Sinai School of Medicine, 1995 to 1998.

Member, Curriculum Committee, Department of Otolaryngology, Mount Sinai School of Medicine, 1995 to 1998.

Representative to the Legislative Assembly, Academic Senate, University of California, Los Angeles, 1993 to 1995.

Chairman, Curriculum Committee, Division of Head and Neck Surgery, UCLA School of Medicine, 1993 to 1995.

# **EDITORIAL BOARD MEMBERSHIP:**

AMERICAN JOURNAL OF OTOLOGY, Appointment: 1992-2000.

OTOLOGY & NEUROTOLOGY, Appointment: 2000-.

LARYNGOSCOPE, Appointment: 1996-2010.

ACTA OTOLARYNGOLOGICA (STOCKH), Appointment: 2000-.

AUDIOLOGY & NEUROTOLOGY, Appointment: 2001-.

AURIS NASUS LARYNX, Appointment: 2005-.

OTOLARYNGOLOGY-HEAD AND NECK SURGERY, Appointment: 1991-2006.

Associate Editor (Otology and Neuro-otology), International Editorial Board,

OTOLARYNGOLOGY-HEAD AND NECK SURGERY, 1997-2002.

JOURNAL OF INTERNATIONAL ADVANCED OTOLOGY, Appointment: 2008-.

# EDITORIAL BOARD SERVICE (AD HOC):

AMERICAN JOURNAL OF OTOLARYNGOLOGY

ANNALS OF OTOLOGY, RHINOLOGY AND LARYNGOLOGY

ARCHIVES OF OTOLARYNGOLOGY-HEAD AND NECK SURGERY

INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY

BRAIN

BRAIN RESEARCH

MOLECULAR BRAIN RESEARCH

DEVELOPMENTAL BRAIN RESEARCH

JOURNAL OF THE ASSOCIATION FOR RESEARCH IN OTOLARYNGOLOGY

NEUROSURGERY

SKULL BASE SURGERY

SOMATOSENSORY AND MOTOR RESEARCH

AMERICAN JOURNAL OF OPHTHALMOLOGY

JOURNAL OF APPLIED PHYSIOLOGY

JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

JOURNAL OF VESTIBULAR RESEARCH

JOURNAL OF NEUROCHEMISTRY

EUROPEAN JOURNAL OF NEUROSCIENCE

HEARING RESEARCH

NEUROSCIENCE LETTERS

GENOME BIOLOGY

# **UNIVERSITY TEACHING RESPONSIBILITIES:**

# Medical College of Wisconsin:

Co-Director, Otology and Neuro-otologic Skull Base Surgery Curriculum, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, 1998-2009; included monthly otology conference, annual resident temporal bone dissection course, daily teaching in the operating room, research laboratory, and clinic. Basic science core curriculum (every-other-year [three months, one hour per week]).

Frontiers in Acoustic Neuroma Management

Sponsored by the Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, October 18, 2002.

P. Ashley Wackym (Course Director)

Temporal Bone Dissection Course

Sponsored by the Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, May 20-21, 2007.

P. Ashley Wackym (Course Co-Director)

# **GRANT SUPPORT:**

#### **PENDING:**

NIH/NIDCD, 2R01DC02971 (16-20): "Molecular Basis of Vestibular Efferent Function," April 1, 2012 to March 31, 2017, \$1,250,000 (total direct costs), Principal Investigator: P. Ashley Wackym, M.D.; Co-Investigators: Joseph A. Cioffi, Ph.D. and Detley Boison, Ph.D.; In Preparation.

Med-El Corporation: "Research with Med-El Cochlear Implant Subjects," October 1, 2011 to September 30, 2013, \$450,000 (total direct costs), Principal Investigator: P. Ashley Wackym, M.D.; Funded (contract pending).

NIH/NCRR, G20RR032504-01A1: "Remodel and Expansion of Comparative Medicine Facilities,"

April 1, 2012 to March 31, 2014, \$500,000 (total direct costs), Principal Investigator: P. Ashley Wackym, M.D., Co-Principal Investigator: Gregory B. Timmel, D.V.M.; Pending.

#### **ACTIVE:**

NIH/NIDCD, 2R01DC02971 (11-16): "Molecular Basis of Vestibular Efferent Function," April 1, 2006 to March 31, 2012, \$1,024,731 (total direct costs), Principal Investigator: P. Ashley Wackym, M.D.; Co-Investigator: Joseph A. Cioffi, Ph.D.; Funded.

Good Samaritan Hospital Foundation: "Cochlear Implant and Neurotology Research," April 1, 2011 to March 31, 2014, \$300,469 (total direct costs), Principal Investigator: P. Ashley Wackym, M.D.; Funded.

NIH/NIDCD, 1K23DC008837: "Genotype-Phenotype Relationships in Auditory Neuropathy," December 1, 2007 to November 30, 2012, \$808,428 (total direct costs), Principal Investigator: Christina L. Runge, Ph.D.; Mentors: P. Ashley Wackym, M.D. and Anne E. Kwitek, Ph.D.; Funded.

# **GRANT SUPPORT (continued):**

#### **COMPLETED PROJECTS:**

- 1990 Academy Research Training Award, American Academy of Otolaryngology-Head and Neck Surgery Foundation, "Localization of Nicotinic Acetylcholine Receptor Subunit mRNA in the Vestibular Periphery," July 1, 1990 to June 30, 1991, \$14,950.00 (total costs), (grant M900404), Principal Investigator: P. Ashley Wackym, M.D.
- Deafness Research Foundation (CCD840214), "Temporal Bone Bank Western Center," July 1, 1991 to March 31, 1993, \$86,178.75 (total costs), Principal Investigator: P. Ashley Wackym, M.D.
- NIH/NIDCD, Clinical Investigator Development Award (1K08DC00062), "Vestibular Efferent Cell and Molecular Biology," July 1, 1991 to June 30, 1996, \$419,360.00 (total costs), Principal Investigator: P. Ashley Wackym, M.D.; (terminated 3/31/95 upon move to New York).
- UCLA Academic Senate, "Localization of Muscarinic Acetylcholine Receptor mRNA in the Vestibular Periphery," March 1, 1993 to June 30, 1993, \$824.00 (direct costs), Principal Investigator: P. Ashley Wackym, M.D.
- Research Fund of the American Otological Society (H930416), "Characterization of DNA and mRNA in Archival Celloidin-Embedded Human Temporal Bone Sections," July 1, 1993 to June 30, 1994, \$20,000.00 (total costs), Principal Investigator: P. Ashley Wackym, M.D.
- National Organization for Hearing Research, "Construction of a Human Inner Ear cDNA Library," January 1, 1994 to December 31, 1994, \$10,000.00 (total costs), Principal Investigator: P. Ashley Wackym, M.D.
- NIH/NIDCD 1P60DC01404, "Otoneurologic and Vestibular Clinical and Basic Research Center," September 30, 1991 to August 31, 1996, \$4,009,537.00 (direct costs), Principal Investigator: Vicente Honrubia, M.D.; Investigator: P. Ashley Wackym, M.D.; Participation 9/30/91 3/31/95 (terminated upon move to New York).
- NIH/NIA R01AG09693, "Dizziness in Older People," April 1, 1991 to March 31, 1996, \$1,337,423.00 (direct costs), Principal Investigator: Robert Baloh, M.D.; Investigator: P. Ashley Wackym, M.D.; Participation 4/1/91 3/31/95 (terminated upon move to New York).
- NIH/NIDCD, 1P01DC03284-01: "Spatial Orientation & Plasticity in the Vestibular System," May 1, 1997 to April 30, 2002, \$4,482,933 (total direct costs); Project 4: "Gaze Compensation During Angular Locomotion," Project 4 \$681,917 (total direct costs) Principal Investigator: Bernard Cohen, M.D.; Co-Investigator: P. Ashley Wackym, M.D.; Participation 5/1/97 7/1/98 (terminated upon move to Milwaukee, Wisconsin).
- NIH/NIDCD, 1R29DC02971: "Molecular Basis of Vestibular Efferent Function," July 1, 1995 to June 30, 2000, \$350,000 (total direct costs), Principal Investigator: P. Ashley Wackym, M.D.

## COMPLETED PROJECTS (CONTINUED):

- NIH/NIDCD, 1U01DC03209: "Otolaryngology Clinical Trials Cooperative Group," April 15, 1997 to March 31, 2002, \$6,662,639.00 (total direct costs),
- Co-Investigator and Member, Scientific Advisory and Protocol Writing and Review Committees: P. Ashley Wackym, M.D.;
- Principal Investigator: Patrick Brookhouser, M.D.; Completed.
- "Nucleus 24 Contour Adult Clinical Trial," MCW Clinical Trial Site Principal Investigator: P. Ashley Wackym, M.D.; Co-Investigator: Jill B. Firszt, Ph.D.
- "Nucleus 24 Contour Pediatric Clinical Trial," MCW Clinical Trial Site Principal Investigator: P. Ashley Wackym, M.D.; Co-Investigator: Jill B. Firszt, Ph.D.
- "The Safety and Effectiveness of the MED-EL COMBI 40+ Adult and Pediatric Cochlear Implant," MED-EL Medical Electronics GmBH, Innsbruck, Austria. Co-Investigator and USA Clinical Trial Site Director: P. Ashley Wackym, M.D.; Co-Director: Jill B. Firszt, Ph.D.; Completed.
- "The Safety and Effectiveness of the Clarion HiFocus Electrode and Positioner (Adult and Pediatric Cochlear Implant Clinical Trial)," Advanced Bionics, Inc., Sylmar, California. MCW Clinical Trial Site Principal Investigator: P. Ashley Wackym, M.D.; Co-Investigator: Jill B. Firszt, Ph.D.; Completed
- Deafness Research Foundation: "Recognition of Words and Sentences Presented at Soft to Loud levels by Adult Recipients of Three Cochlear Implant Systems," July 1, 2001 to June 30, 2002, \$50,000 (total costs), Principal Investigator: Jill B. Firszt, Ph.D.; Co-Investigator: P. Ashley Wackym, M.D.; Completed.
- Med-El Corporation: "Research with Med-El Cochlear Implant Subjects," April 1, 2001 to March 31, 2003, \$50,000 (total direct costs), Principal Investigator: Jill B. Firszt Ph.D.; Co-Principal Investigator: P. Ashley Wackym, M.D.; Completed.
- NIH/NIDCD, 1K23DC05410: "Central Auditory Function in Patients with Hearing Loss," April 1, 2002 to August 9, 2006, \$868,750 (total direct costs), Principal Investigator: Jill B. Firszt, Ph.D.; Mentor: P. Ashley Wackym, M.D.; Completed.
- NIH/NIDCD, 1K08DC00192: "The Role of Cytokines in Otitis Media," April 1, 2001 to March 31, 2006, \$908,568 (total direct costs), Principal Investigator: Joseph E. Kerschner, M.D.; Mentors: P. Ashley Wackym, M.D. and Paula Traktman, Ph.D.; Completed.
- NIH/NIDCD, 1R01DC02971 (6-10): "Molecular Basis of Vestibular Efferent Function," July 1, 2000 to March 31, 2006, \$1,175,000 (total direct costs), Principal Investigator: P. Ashley Wackym, M.D.; Completed.
- Med-El Corporation: "Research with Med-El Cochlear Implant Subjects," November 1, 2003 to December 31, 2005, \$100,000 (total direct costs), Principal Investigator: P. Ashley Wackym, M.D.; Co-Principal Investigator: Christina L. Runge, Ph.D.; Completed.

# **COMPLETED PROJECTS (CONTINUED):**

Cochlear Americas: "Unilateral Hearing Loss and Cochlear Implantation,"

January 1, 2005 to June 30, 2007, \$109,650 (total direct costs),

Principal Investigator: P. Ashley Wackym, M.D.;

Co-Investigator: Christina L. Runge, Ph.D.; Completed.

NIH/NIDCD, 1K08DC006277: "Differential Gene Expression in the Cochlear Nucleus," April 1, 2004 to March 31, 2009, \$941,113 (total direct costs), Principal Investigator: David R. Friedland, M.D., Ph.D., Mentors: P. Ashley Wackym, M.D., Peter J. Tonnellato, Ph.D., and David Ryugo, Ph.D. (Johns Hopkins University School of Medicine); Completed.

# REGIONAL, NATIONAL AND INTERNATIONAL PRESENTATIONS:

**Regional Presentations:** Since 1988 there have been 59 regional presentations.

**National Presentations:** Since 1982 there have been 86 national presentations.

**International Presentations:** Since 1988 there have been 40 international presentations.

# VISITING PROFESSORSHIPS / INVITED LECTURESHIPS:

Dolowitz Memorial Lecturer, University of Utah School of Medicine, April 13, 1999.

International Otorhinolaryngology – Head and Neck Surgery Society Meeting, Ankara, Turkey, June 1-4, 2000.

Asia Pacific Conference on Cochlear Implantation, Osaka, Japan, April 4-8, 2001.

Northwestern University School of Medicine, Chicago, June 15, 2001.

David DeWeese Lectureship, Oregon Health Sciences University / Oregon State Society of Otolaryngology-Head and Neck Surgery Annual Meeting, Portland, November 2, 2001

Tidewater Otolaryngology and Ophthalmology Society, Norfolk, Virginia, January 25, 2002

Annual Chairman's Lecture, Department of Otolaryngology-Head and Neck Surgery, Johns Hopkins University School of Medicine, Baltimore, February 26, 2002.

Department of Otolaryngology, Wayne State University School of Medicine, Detroit, April 19, 2002.

International Otorhinolaryngology – Head and Neck Surgery Society Meeting, Ankara, Turkey, May 31 to June 2, 2002.

Wullstein Symposium on Bilateral Cochlear Implantation, Würzburg, Germany, December 14, 2002.

Distinguished Visiting Professor, Division of Otolaryngology, Department of Surgery, Southern Illinois University School of Medicine, Springfield, Illinois, May 29, 2003.

13<sup>th</sup> Peter Girgis Visiting Professor, Department of Otolaryngology-Head and Neck Surgery, Loyola University Medical Center, Maywood, Illinois, January 21, 2004.

13<sup>th</sup> Percy Ireland Oration, Department of Otolaryngology, Faculty of Medicine, University of Toronto, Toronto, Canada, May 8, 2004.

Guest Speaker, Minnesota Academy of Otolaryngology-Head and Neck Surgery, Minnesota, September 11, 2004.

5<sup>th</sup> Asia Pacific Conference on Cochlear Implantation, Hong Kong, China, November 24-26, 2005.

International Otorhinolaryngology – Head and Neck Surgery Society Meeting, Ankara, Turkey, March 23-26, 2006.

# VISITING PROFESSORSHIPS / INVITED LECTURESHIPS (CONTINUED):

Keynote Lecturer, Leksell Gamma Knife Society, 13<sup>th</sup> International Meeting, Seoul, Korea, May 25, 2006.

International Conference on Vestibular Schwannoma and Other CPA Lesions, Barcelona, Spain, June 5-9, 2007.

Featured Guest, 5<sup>th</sup> Annual Temporal Bone Surgical Course and Update in Otology, Case Western Reserve University School of Medicine, Cleveland, Ohio, October 18-19, 2007.

Keynote Lecture, Japan Equilibrium Society, Osaka, Japan, November 14, 2007.

Invited Plenary Session Speaker, Leksell Gamma Knife Society, 14<sup>th</sup> International Meeting, Québec City, Canada, May 19, 2008.

Invited Speaker, 8<sup>th</sup> International Conference on Cholesteatoma and Ear Surgery, Antalya, Turkey, June 15-20, 2008.

Guest Speaker, Orange County Society of Otolaryngology – Head & Neck Surgery, and University of California Irvine Grand Rounds, Orange, California, November 4, 2009.

Invited Plenary Session Speaker, Leksell Gamma Knife Society, 15<sup>th</sup> International Meeting, Athens, Greece, May 20, 2010.

Invited Guest, 4<sup>th</sup> Annual Temporal Bone Surgical Course, University of Louisville School of Medicine, Louisville, Kentucky, February 4-5, 2011.

Invited Plenary Session Speaker, Leksell Gamma Knife Society, 16<sup>th</sup> International Meeting, Sydney, Australia, May, 2012.

Invited Speaker, 9<sup>th</sup> International Conference on Cholesteatoma and Ear Surgery, Nagasaki, Japan, June 3-7, 2012.

# **EDUCATIONAL VIDEOTAPE PRODUCTIONS:**

Wackym PA:

*Infratemporal and Combined Approaches to the Middle Fossa Skull Base.*<a href="mailto:Cranial\_Base\_Surgery">Cranial\_Base\_Surgery</a>, © 1993 CME Conference Video, Inc.

# **MISCELLANEOUS:**

2002 Telly Award, for the television commercial "Impossible."

This award was given following selection of our television commercial from over 1,200 judged in 2002. It highlighted the cochlear implant technology available as an example of the strength of the clinical and research neuroscience programs that were established at the Froedtert & Medical College of Wisconsin Hospital in Milwaukee. Dr. Wackym served as the medical advisor and served as an actor for the commercial.

# **PUBLICATIONS** (*Peer Reviewed*):

1. Wackym PA, Gray GF, Jr:

Tumors of the appendix: I. Neoplastic and nonneoplastic mucoceles. *South Med J* 1984; 77: 283-287.

2. Wackym PA, Gray GF, Jr:

Tumors of the appendix: II. The spectrum of carcinoid. *South Med J* 1984; 77: 288-291.

3. Wackym PA, Gray GF, Jr, Richie RE, Gregg CR:

Cutaneous chromomycosis in renal transplant recipients:

Successful management in two cases.

Arch Intern Med 1985; 145: 1036-1037.

4. Wackym PA, Ware JM, Gray GF, Jr:

Subconjunctival hemorrhage, periorbital ecchymoses and facial petechiae following cardioversion.

J Tenn Med Assoc 1985; 78: 619-621.

5. Wackym PA, Linthicum FH, Jr:

Diabetes mellitus and hearing loss: Clinical and histopathological relationships. *Am J Otol* 1986; 7: 176-182.

6. Wackym PA, Gray GF, Jr, Avant GR:

Herpes zoster of the larynx after intubational trauma.

J Laryngol Otol 1986; 100: 839-841.

7. Wackym PA, Friberg U, Bagger-Sjöbäck D, Rask-Andersen H:

Human endolymphatic duct: Possible mechanisms of endolymph outflow. *Ann Otol Rhinol Laryngol* 1986; 95: 409-414.

8. Wackym PA, Gray GF, Jr, Rosenfeld L, Friedmann I: Papillary cystic oncocytoma and Warthin's tumor of the parotid gland.

J Laryngol Otol 1986; 100: 679-686.

9. Friberg U, Wackym PA, Bagger-Sjöbäck D, Rask-Andersen H:

Effect of labyrinthectomy on the endolymphatic sac. A histologic, ultrastructural and computer-aided morphometric investigation in the mouse.

Acta Otolaryngol (Stockh) 1986; 101: 172-182.

10. Wackym PA, Sawyers JL, Glick AD, Gray GF: Carcinoid of the ampulla of Vater. *Dig Surg* 1986; 2: 176-179.

- 11. Kneece SM, Wackym PA, Dudley BS, Sawyers JL, Gray GF, Jr: Appendicovaginal fistula and primary appendiceal cystadenocarcinoma. *South Med J* 1987; 80: 914-916.
- 12. Wackym PA, Friberg U, Bagger-Sjöbäck D, Linthicum FH, Jr, Friedmann I, Rask-Andersen H:

  Human endolymphatic sac: Possible mechanisms of pressure regulation. *J Laryngol Otol* 1987; 101: 768-779.
- 13. Wackym PA, Friberg U, Linthicum FH, Jr, Bagger-Sjöbäck D, Bui HT, Hofman F, Rask-Andersen H:
  Human endolymphatic sac: Morphologic evidence of immunologic function. *Ann Otol Rhinol Laryngol* 1987; 96: 276-281.
- Wackym PA, Ellison D, Ward PH: A new technique to maintain closed-suction drainage catheter function.
   Arch Otolaryngol Head Neck Surg 1987; 113: 57-58.
- 15. Wackym PA, Abdul-Rasool IH: Prospective management of malignant hyperthermia in the otolaryngological patient. *J Laryngol Otol* 1988; 102: 513-516.
- 16. Wackym PA, Glasscock ME, Linthicum FH, Friberg U, Rask-Andersen H: Immunohistochemical localization of Na<sup>+</sup>,K<sup>+</sup>-ATPase in the human endolymphatic sac. *Arch Otorhinolaryngol* 1988; 245: 221-223.
- 17. Feuerman T, Wackym PA, Gade GF, Becker DP:
  Value of skull radiography, head computed tomographic scanning, and admission for observation in cases of minor head injury.

  Neurosurgery 1988; 22: 449-453.
- 18. Wackym PA, Feuerman T, Gade GF, Dubrow TJ:
  Ependymal cyst of the spinal cord presenting with acute paraplegia. *J Neurol Neurosurg Psychiatry* 1988; 51(6): 885.
- 19. Dubrow TJ, Wackym PA, Lesavoy MA: Detailing the human tail. *Ann Plastic Surg* 1988; 20: 340-344.
- 20. Feuerman T, Wackym PA, Gade GF, Lanman TH, Becker DP: Intraoperative development of contralateral epidural hematoma during evacuation of traumatic extra-axial hematoma.

  Neurosurgery 1988; 23: 480-484.

21. Dubrow TJ, deVirgilio C, Wackym PA, Wilson SE:

Blunt abdominal trauma with isolated gallbladder perforation mimicking acute pancreatitis.

Dig Surg 1988; 5: 55-56.

22. Wackym PA, Dubrow TJ, Abdul-Rasool IH, Peacock WJ:

Neurosurgery in the malignant hyperthermia susceptible patient.

Neurosurgery 1988; 22: 1032-1036.

23. Wackym PA, Dubrow TJ, Abdul-Rasool IH, Lesavoy MA:

Malignant hyperthermia in plastic surgery.

Plast Reconstr Surg 1988; 82(5): 878-882.

24. deVirgilio C, Dubrow TJ, Robertson JM, Wackym PA, Pelikan PCD, Cobb S,

Williams RA:

Dieulafoy's lesion associated with truncus arteriosus type IV.

Am J Gastroenterol 1988; 83: 865-867.

25. Lesavoy MA, Dubrow TJ, Wackym PA, Eckardt JJ:

Muscle-flap coverage of exposed endoprostheses.

Plast Reconstr Surg 1989; 83: 90-96.

26. Dubrow TJ, Wackym PA, Abdul-Rasool IH, Moore TC:

Malignant hyperthermia: Experience in the prospective management of 8 children.

J Pediatr Surg 1989; 24: 163-166.

27. Wackym PA, Micevych PE, Ward PH, Linthicum FH:

Transmission and immunoelectron microscopy of human temporal bone collections.

Cell Biology Int Rep 1989; 13: 637-638.

28. King WA, Wackym PA, Viñuela F, Peacock WJ:

Management of vein of Galen aneurysms: Combined surgical and endovascular approach.

Child's Nerv Syst 1989; 5: 208-211.

29. Feuerman T, Wackym PA, Gade GF, Dubrow TJ:

Craniotomy improves outcome in subdural empyema.

Surg Neurol 1989; 32: 105-110.

30. Eckardt JJ, Lesavoy MA, Dubrow TJ, Wackym PA:

Exposed endoprosthesis: Management protocol using muscle and myocutaneous flap coverage.

Clin Ortho Rel Res 1990; 251: 220-229.

31. Wackym PA, Canalis RF, Feuerman T:

Subdural empyema of otorhinologic origin.

J Laryngol Otol 1990; 104: 118-122.

32. Wackym PA, Micevych PE, Ward PH:

Immunoelectron microscopy of the human inner ear.

Laryngoscope 1990; 100: 447-454.

33. Portmann D, Fayad J, Wackym PA, Shiroishi H, Linthicum FH, Rask-Andersen H:

A technique for reembedding celloidin sections for electron microscopy.

Laryngoscope 1990; 100: 195-199.

34. Wackym PA, Canalis RF, Friberg U, Rask-Andersen H, Linthicum FH:

Size variations in the lateral intercellular spaces of the endolymphatic sac induced by dietary factors.

Laryngoscope 1990; 100: 217-222.

35. Wackym PA, Linthicum FH, Ward PH, House WF, Micevych PE,

Bagger-Sjöbäck D:

Re-evaluation of the role of the human endolymphatic sac in Ménière's disease.

Otolaryngol Head Neck Surg 1990; 102: 732-744.

36. Wackym PA, Feuerman T, Strasnick B, Calcaterra TC:

Reconstruction of massive defects of the scalp, cranium and dura.

Head Neck 1990; 12: 247-253.

37. Bredenkamp JK, Abemayor E, Wackym PA, Ward PH:

Tonsillectomy under local anesthesia: a safe and effective alternative.

Am J Otolaryngol 1990; 11: 18-22.

38. Wackym PA, Popper P, Ward PH, Micevych PE:

*In situ* hybridization for the study of gene expression in neuro-otologic research.

Otolaryngol Head Neck Surg 1990; 103: 519-526.

39. Dubrow TJ, Wackym PA, Schwartz RJ, Abdul-Rasool IH, Williams RA:

Prospective management of malignant hyperthermia in the general

surgery patient.

Dig Surg 1990; 7: 207-211.

40. Wackym PA, Ward PH, House WF, Linthicum FH, Micevych PE:

Technique for transmission and immunoelectron microscopy of the

human endolymphatic sac and vestibular epithelia.

Otolaryngol Head Neck Surg 1991; 104: 72-80.

# 41. Wackym PA, Popper P, Abelson L, Ward PH, Micevych PE:

Molecular biology of the vestibular system.

Acta Otolaryngol (Stockh) 1991; Suppl 481: 141-149.

# 42. Wackym PA, Popper P, Ward PH, Micevych PE:

Cell and molecular anatomy of nicotinic acetylcholine receptor subunits and calcitonin gene-related peptide in the rat vestibular system.

Otolaryngol Head Neck Surg 1991; 105: 493-510.

# 43. Wackym PA, Storper IS, Fu Y-S, House WF, Ward PH:

Differential diagnosis of virus-like particles in the human inner ear.

Am J Otol 1992; 13: 431-437.

# 44. Wackym PA:

Ultrastructural organization of calcitonin gene-related peptide immunoreactive efferent axons and terminals in the rat vestibular periphery.

Am J Otol 1993; 14: 41-50.

# 45. Macias JD, Wackym PA, McCabe BF:

Early diagnosis of otologic Wegener's granulomatosis using the serologic marker C-ANCA.

Ann Otol Rhinol Laryngol 1993; 102: 337-341.

# 46. Lesavoy MA, Dubrow TJ, Schwartz RJ, Wackym PA, Eisenhauer DM, McGuire M:

Management of large scalp defects with local pedicle flaps.

Plast Reconstr Surg 1993; 91: 783-790.

# 47. Wackym PA, Simpson TA, Gantz BJ, Smith RJH:

Polymerase chain reaction amplification of DNA from archival celloidin-embedded human temporal bone sections.

Laryngoscope 1993; 103: 583-588.

## 48. Wackym PA, Popper P, Micevych PE:

Distribution of calcitonin gene-related peptide mRNA and immunoreactivity in the rat central and peripheral vestibular system.

Acta Otolaryngol (Stockh) 1993; 113: 601-608.

# 49. Wackym PA, Popper P, Kerner MM, Grody WW:

Varicella-zoster DNA in temporal bones of patients with Ramsay Hunt syndrome. *Lancet* 1993; 342: 1555.

## 50. Kerner MM, Wackym PA, Popper P, Tabor DE, Grody WW:

Cloning and sequencing of genomic DNA extracted from archival human temporal bone sections.

Laryngoscope 1994; 104: 127-134.

# 51. Wackym PA, Blackwell KE:

Malignant hyperthermia in otology: The UCLA experience. *Am J Otol* 1994; 15: 371-375.

## 52. Ishiyama A, Lopez I, Wackym PA:

Choline acetyltransferase immunoreactivity in the human vestibular end-organs. *Cell Biol Int* 1994; 18: 979-984.

# 53. Ishiyama A, Lopez IA, Wackym PA:

Subcellular innervation patterns of calcitonin gene-related peptidergic terminals in the chinchilla vestibular periphery. *Otolaryngol Head Neck Surg* 1994; 111: 385-395.

# 54. Wackym PA, Chen CT, Kerner MM, Bell TS:

Characterization of DNA extracted from archival celloidin-embedded human temporal bone sections.

Am J Otol 1995; 16: 14-20.

# 55. Wackym PA:

Histopathologic findings in Meniere's disease. *Otolaryngol Head Neck Surg* 1995; 112: 90-100.

# 56. Wackym PA, Popper P, López I, Ishiyama A, Micevych PE:

Expression of  $\alpha 4$  and  $\beta 2$  nicotinic acetylcholine receptor subunit mRNA and localization of  $\alpha$ -bungarotoxin binding proteins in the rat vestibular periphery. *Cell Biol Int* 1995; 19: 291-300.

# 57. Chin KW, Billings KR, Ishiyama A, Wang MB, Wackym PA:

Characterization of lymphocyte subpopulations in Warthin's tumor. *Laryngoscope* 1995; 105: 928-933.

## 58. Ishiyama A, Lopez I, Wackym PA:

Distribution of efferent cholinergic terminals and  $\alpha$ -bungarotoxin binding to putative nicotinic acetylcholine receptors in the human vestibular end-organs. *Laryngoscope* 1995; 105: 1167-1172.

# 59. Wackym PA, Chen CT, Ishiyama A, Pettis RM, López I, Hoffman L:

Muscarinic acetylcholine receptor subtype mRNAs in the human and rat vestibular periphery.

Cell Biol Int 1996; 20: 187-192.

# 60. Baloh RW, Lopez I, Ishiyama A, Wackym PA, Honrubia H:

Vestibular neuritis: Clinical - pathologic correlation. *Otolaryngol Head Neck Surg* 1996; 114: 586-592.

# 61. Bridgeman D, Hoffman L, Wackym PA, Micevych PE, Popper P:

Distribution of choline acetyltransferase mRNA in the efferent vestibular neurons of the chinchilla.

J Vestibular Res 1996; 6: 203-212.

# 62. Wong Marco RA, Hoffman L, Wackym PA, Micevych PE, Popper P:

Localization of calcitonin gene-related peptide immunoreactivity in retrogradely labeled vestibular efferent neurons of the chinchilla.

Hear Res 1996; 97: 95-101.

# 63. Wackym PA:

Molecular temporal bone pathology. I. Historical foundation.

Laryngoscope 1997; 107: 1056-1064.

## 64. Wackym PA:

Molecular temporal bone pathology. II. Ramsay Hunt syndrome (herpes zoster oticus).

Laryngoscope 1997; 107: 1065-1075.

# 65. Ishiyama A, López I, Wackym PA:

Molecular characterization of muscarinic receptors in the human vestibular periphery: Implications for pharmacotherapy.

Am J Otol 1997; 18: 648-654.

# 66. Anderson AD, Troyanovskaya M, Wackym PA:

Differential expression of  $\alpha$ 2-7.  $\alpha$ 9 and  $\beta$ 2-4 nicotinic acetylcholine receptor subunit mRNA in the vestibular end-organs and Scarpa's ganglia of the rat. Brain Res 1997; 778: 414-418.

67. Jones ME, Wackym PA, Naief NS-A, Brandwein M, Shaari C, Som PM,

Zhang DY, King WA:

Clinical and molecular pathology of an aggressive Schneiderian papilloma involving the temporal bone.

Head Neck 1998; 20: 83-88.

## 68. Wackym PA, Balaban CD:

Molecules, motion, and man.

Otolaryngol Head Neck Surg 1998; 118: S15-S23.

## 69. Wackym PA, Kerner MM, Grody WW:

Molecular temporal bone pathology: III. Genotyping of the  $\Delta F_{508}$  deletion in the DNA of patients with cystic fibrosis.

Laryngoscope 1998; 108 (Suppl 88): 1-3.

# 70. Wackym PA, Kerner MM, Grody WW:

Molecular temporal bone pathology: IV. Analysis of DNA template length using mitochondrial PCR primers.

Laryngoscope 1998; 108 (Suppl 88): 4-7.

# 71. Troyanovskaya M, Wackym PA:

Evidence for three additional P2X2 purinoceptor isoforms produced by alternative splicing in the adult rat vestibular end-organs.

Hear Res 1998; 126/1-2: 201-209.

# 72. Wackym PA, King WA, Baker F, Poe DS:

Endoscope-assisted vestibular neurectomy.

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