

List of Contributors

As they appear in the text

- **Hesham Negm**, MD. Professor Department of Otorhinolaryngology Medical School University of Cairo, Cairo, Egypt.
- **Paula Pfeifer**, Social Scientist, Hearing impaired, Santa Maria, RS, Brazil.
- **Jessica R. Levi**, MD, Assistant Professor, Departments of Otolaryngology and Pediatrics, Boston University / Boston Medical Center, Boston, MA, USA.
- **Edmund Pribitkin**, MD, FACS. Professor and Academic Vice Chairman, Department of Otolaryngology-Head & Neck Surgery, Thomas Jefferson University, Philadelphia, PA, USA.
- **Robert C. O'Reilly**, MD, Neurotologist. Division Chief Pediatric Otolaryngology, Nemours - A. I. Dupont Hospital for Children, Wilmington, DE, USA.
- **Cristina Carocha**, MD, Centro Clínico Universitário de Otorrinolaringologia do Hospital CUF Infante Santo. Medical Assistant, Department of Otorhinolaryngology, Faculdade de Ciências Médicas de Lisboa, Lisbon, Portugal.
- **Diogo Ribeiro**, MD, Clinical Audiologist, Centro Clínico Universitário de Otorrinolaringologia do Hospital CUF Infante Santo, Lisbon, Portugal.
- **João Paço**, MD, PhD. Clinical Director, Centro Clínico Universitário de Otorrinolaringologia do Hospital CUF Infante Santo. Chairman, Department of Otorhinolaryngology, Faculdade de Ciências Médicas de Lisboa, Lisbon, Portugal.
- **Eldar Carmel**, MD. Pediatric Otorhinolaryngology - Head & Neck Surgery. The Children's Hospital at Westmead. Teaching Institution of Sydney Medical School for the University of Sydney, Sydney, Australia.
- **Alan T. Cheng**, MD, BHB, MB, ChB, FRACS. Pediatric Otorhinolaryngology Head & Neck Surgery. The Children's Hospital of Westmead. Teaching Institution of Sydney Medical School for the University of Sydney, Sydney, Australia.
- **Katia Oliveira Machado**, MD, Pediatrician Instituto de Puericultura e Pediatria Martagão Gesteira, Federal University of Rio de Janeiro. Pediatrician Ministry of Health, Hospital Raphael de de Paula Souza, Rio de Janeiro, RJ, Brazil.
- **Clemax Couto Sant'Anna**, MD, PhD. Associate Professor Department of Pediatrics, Medical School, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil.
- **Tulio A. Valdez**, MD. Assistant Professor of Pediatric Otolaryngology, Department of Pediatric Otolaryngology, Connecticut Children's Medical Center, Hartford, CT, USA.

- **Grant Garbo**, MD. Otolaryngology Resident, University of Connecticut Health Center, Farmington, CT, USA.
- **Corrie Roehm**, MD. Fellow Pediatric Otolaryngology, Texas Children's Hospital, Houston, TX, USA.
- **Lucia Ferro Bricks**, MD. Pediatrician. Doctor in Medicine, School of Medicine University of São Paulo. Public Health Director, Sanofi Pasteur, Vaccines Division of Sanofi, São Paulo, SP, Brazil.
- **Françoise Denoyelle**, MD, PhD. Children's Hospital Armand Trousseau, Department of Otolaryngology, Paris, France
- **Nicolas Leboulanger**, MD, PhD. Department of Otolaryngology, Children's Hospital Armand Trousseau, Paris, France
- **Odile Enjolras**, MD, Department of Maxillofacial and Plastic Surgery, Children's Hospital Armand Trousseau, Paris, France
- **Robert Harris**, MD, Department of Otolaryngology, Children's Hospital Armand Trousseau, Paris, France
- **Gilles Roger**, MD, Department of Otolaryngology, Children's Hospital Armand Trousseau, Paris, France
- **Érea-Noël Garabedian**, MD, Chairman Department of Otolaryngology, Children's Hospital Armand Trousseau, Paris, France.
- **Sara F. Peña**, MD, Department of Otorhinolaryngology, Louisiana State University - Health Science Center, New Orleans, LA, USA.
- **Ron B. Mitchell**, MD, Professor of Otolaryngology and Pediatrics. Chief of Pediatric Otolaryngology. University of Texas Southwestern, Children's Medical Center Dallas. Dallas, TX, USA.
- **Anita Jeyakumar**, MD, MS, FACS. Pediatric Otolaryngology, Department of Otorhinolaryngology, Louisiana State University - Health Science Center, New Orleans, LA, USA.
- **Rosângela S. L. de Almeida Torres**, MS, PhD. Microbiologist. Service of Identification and Research of Streptococci, Division of Epidemiology and Disease Control, Central Laboratory of the Paraná State, Collaborating Centre of the Ministry of Health, Curitiba, PR, Brazil.
- **Reginald F. Baugh**, MD, Department of Surgery University of Toledo Medical Center, Toledo, OH, USA.
- **Sanford M. Archer**, MD, Division of Otolaryngology–Head & Neck Surgery, University of Kentucky, Chandler Medical Center, Lexington, KY, USA.
- **Richard M. Rosenfeld**, MD, MPH, Department of Otolaryngology, SUNY Downstate Medical Center and Long Island College Hospital, Brooklyn, New York, NY, USA.
- **Raouf Amin**, MD, Department of Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA.

- **James J. Burns**, MD, Departments of Pediatrics, Baystate Children's Hospital, Springfield, MA, USA.
- **David H. Darrow**, MD, DDS, Department of Otolaryngology, Eastern Virginia Medical School, Norfolk, VA, USA
- **Terri Giordano**, MSN, CRNP, CORLN, Division of Otolaryngology, The Children's Hospital of Philadelphia, PA, USA.
- **Ronald S. Litman**, DO, Department of Anesthesiology and Critical Care, University of Pennsylvania School of Medicine, Philadelphia, PA, USA.
- **Kasey Li**, MD, DDS, Sleep Apnea Surgery Center, East Palo Alto, CA, USA.
- **Mary Ellen Mannix**, MRPE, James's Project, Wayne, PA, USA.
- **Richard H. Schwartz**, MD, Advanced Pediatrics, Vienna, VA, USA.
- **Gavin Setzen**, MD, Albany ENT & Allergy Services, PC, Albany, NY, USA.
- **Ellen R. Wald**, MD, Department of Pediatrics, University of Wisconsin School of Medicine and Public Health, Madison, WI, USA.
- **Eric Wall**, MD, MPH, Qualis Health, Seattle, WA, USA.
- **Gemma Sandberg**, MA. The Cochrane ENT Disorders Group, Oxford, United Kingdom.
- **Milesh Patel**, MS. American Academy of Otolaryngology – Head & Neck Surgery Foundation, Alexandria, VA, USA.
- **Alessandro Danesi**, MD. Pediatrician Hospital Sírio Libanês, São Paulo, SP, Brazil.
- **Estelle S. Yoo**, MD. Fellow in Pediatric Otolaryngology, Nemours – A. I. DuPont Hospital for Children, Wilmington, DE, USA.
- **Udayan K. Shah**, MD. Director, Fellow & Resident Education, Pediatric Otolaryngology, Nemours – A. I. DuPont Hospital for Children, Wilmington, DE,. Associate Professor of Otolaryngology – Head & Neck Surgery and Pediatrics, Thomas Jefferson University, Philadelphia, PA, USA.
- **Richard Schmidt**, MD, Assistant Professor of Otolaryngology, Thomas Jefferson University, Philadelphia, PA. Attending Pediatric Otolaryngologist, Nemours - A. I. Dupont Hospital for Children, Wilmington, DE, USA.
- **Jessica Weiss**, MD. Otolaryngology Resident, University of Connecticut Health Center, Farmington, CT, USA.
- **Luiz Bellízia Neto**, MD, PhD. Pediatrician Instituto da Criança, Department of Pediatrics, Medical School University of São Paulo. Pediatrician, Albert Einstein Hospital, São Paulo, SP, Brazil.
- **Wyske Fokkens**, MD, PhD. Otorhinolaryngologist, Clinical Epidemiologist, Chairman Department of Otorhinolaryngology, Academic Medical Centre, Amsterdam, The Netherlands.

- **Fuad Baroody**, MD. Professor of Otolaryngology - Head & Neck Surgery and Pediatrics, The University of Chicago Medical Center. The Pritzker School of Medicine, University of Chicago. Comer Childrens Hospital, Chicago, IL, USA.
- **Julie L. Wei**, MD. Associate Professor, Pediatric Otolaryngology. University of Kansas School of Medicine, Department of Otolaryngology Head & Neck Surgery, Kansas City, KS, USA.
- **Wolfgang Pirsig**, MD, PhD. Emeritus Professor at the Department of Otorhinolaryngology, University of Ulm, Ulm, Germany.
- **David Mener**, MD, MPH. Department of Otolaryngology - Head & Neck Surgery, John Hopkins University School of Medicine, Baltimore, MD, USA.
- **Emily F. Boss**, MD, MPH. Assistant Professor, Department of Otolaryngology - Head & Neck Surgery, John Hopkins University School of Medicine. Associate Faculty, Armstrong Institute for Patient Safety and Quality, Baltimore, MD, USA.
- **Tania Sih**, MD. PhD. Interamerican Association of Pediatric Otorhinolaryngology (IAPO) Secretary General. International Federation of Otorhinolaryngology Societies (IFOS) Chairperson of the Standing Committee Pediatric Otorhinolaryngology. Professor Medical School University of São Paulo, São Paulo, SP, Brazil.
- **Elisabeth Araujo**, MD. Associate Professor Post Graduate Course, Medical School Federal University of Rio Grande do Sul. Coordinator, ENT Nucleus Hospital Moinhos de Vento, Porto Alegre, RS, Brazil.
- **Carlos Ruah**, MD, PhD. Clínica ORL Drs. Ruah, Lisbon, Portugal.
- **Ezequiel Barros**, MD. Chairman, Department of Otolaryngology, Hospital de S. José, Lisbon, Portugal.
- **Fernando Vilhena de Mendonça**, MD. Otolaryngologist and Medical Illustrator. Director Círculo Médico, Lisbon, Portugal.
- **Samuel Ruah**, MD. Chairman Emeritus, Department of Otolaryngology, Hospital D^a Estefania, Lisbon, Portugal.
- **Michael Paparella**, MD, PhD. Emeritus Professor, Department of Otolaryngology, University of Minnesota Medical School. Director Otopathology Laboratory, President Paparella Ear Head & Neck Institute, Minneapolis, MN, USA.
- **Alison Maresh**, MD. Clinical Fellow, Division of Pediatric Otolaryngology, Children's National Medical Center, Washington, DC, USA.
- **Diego Preciado**, MD, PhD. Associate Professor of Otolaryngology, Pediatrics and Integrative System Biology. The George Washington University School of Medicine. Fellowship Program Director, Division of Pediatric Otolaryngology, Children's National Medical Center, Washington, DC, USA.

- **Paola Marchisio**, MD. Department of Pathophysiology and Transplantation, University of Milan, and Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico, Milan, Italy.
- **Giada Albertario**, MD. Department of Pathophysiology and Transplantation, University of Milan, and Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico, Milan, Italy.
- **Elena Baggi**, MD. Department of Pathophysiology and Transplantation, University of Milan, and Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico, Milan, Italy.
- **Sonia Bianchini**, MD. Department of Pathophysiology and Transplantation, University of Milan, and Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico, Milan, Italy.
- **Laura Confalonieri**, MD. Department of Pathophysiology and Transplantation, University of Milan, and Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico, Milan, Italy.
- **Erica Nazzari**, MD. Department of Pathophysiology and Transplantation, University of Milan, and Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico, Milan, Italy.
- **Sara Torretta**, MD. Department of Clinical Sciences and Community Health, University of Milan, and Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.
- **Nicola Principi**, MD. Department of Pathophysiology and Transplantation, University of Milan, and Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico, Milan, Italy.
- **Susanna Esposito**, MD. Department of Pathophysiology and Transplantation, University of Milan, and Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico, Milan, Italy.
- **David Chow**, MB, BS. Registrar in Otolaryngology, Head & Neck Surgery, Princess Margaret Hospital for Children, Perth, Australia.
- **Gunesh Rajan**, MD, FRACS. Professor of Otolaryngology, Head & Neck Surgery, University of Western Australia, Fremantle Hospital, Fremantle, Australia.
- **Harvey Coates**, AO, MS, FRACS. Clinical Professor, University of Western Australia. Senior ENT Surgeon, Princess Margaret Hospital for Children, Perth, Australia.
- **Peggy E. Kelley**, MD. Associate Professor of Otolaryngology, University of Colorado, Denver, CO, USA.
- **Rupa Vedantam**, MD, MS, DLO. Professor of Otolaryngology, Christian Medical College, Vellore, India.

- **Ramon Gordon Jensen**, MD, PhD. Department of Otorhinolaryngology, Head & Neck Surgery and Audiology. Rigshospitalet University Hospital of Copenhagen, Copenhagen, Denmark.
- **Ricardo Godinho**, MD, PhD. Professor, Department of Otorhinolaryngology Medical School Coordinator, Pontificia Universidade Católica (PUC), Betim, MG, Brazil.
- **Ana Luiza de Freitas Rezende**, Audiologist. Institut of Otorhinolayngology Sete Lagoas, MG, Brazil.
- **Marcelo de Toledo Piza**, MD, PhD. Otolaryngologist. President Paparella ENT Association, Ribeirão Preto, SP, Brazil
- **Emily Z. Stucken**, MD. Department of Otolaryngology - Head & Neck, Columbia University, College of Physicians and Surgeons. New York, NY, USA.
- **Anil K. Lalwani**, MD. Professor and Vice Chair for Research. Director, Division of Otology, Neurotology & Skull Base Surgery. Director, Columbia Cochlear Implant Center. New York, NY, USA.
- **Adam Cammerman**. Medical Student VI. The University of Western Australia, Perth, Australia.
- **Ryan F. Kovaleski**, BSc. Department of Neurobiology, Northwestern University, Evanston, IL, USA.
- **Liisa A. Tremere**, PhD. Research Assistant Professor, Department of Neurobiology, Northwestern University, Evanston, IL, USA.
- **Raphael Pinaud**, PhD. Associate Professor, Department of Neurobiology, Northwestern University, Evanston, IL, USA.
- **Kavita Dedhia**, MD. Department of Otolaryngology, Eye & Ear Institute of Pittsburgh, University of Pittsburgh Medical Center, Pittsburgh, PA, USA.
- **David H. Chi**, MD. Assistant Professor of Otolaryngology, University of Pittsburgh School of Medicine, Division of Pediatric Otolaryngology Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA, USA.
- **Alexander J. Osborn**, MD, PhD. Department of Otolaryngology Head and Neck Surgery, Hospital for Sick Children, Toronto. Department of Otolaryngology Head and Neck Surgery, University of Toronto, Toronto, Canada.
- **Sharon L. Cushing**, MD, MSc. Department of Otolaryngology Head and Neck Surgery, Hospital for Sick Children, Toronto. Department of Otolaryngology Head and Neck Surgery, University of Toronto, Toronto, Canada.
- **Blake Papsin**, MD, MSc, FRCSC, FAAP, FACS. Director of the Cochlear Implant Program, Staff Otolaryngologist Professor, Hospital for Sick Children, Toronto. Department of Otolaryngology Head and Neck Surgery, University of Toronto, Toronto, Canada.