



# 2023 ARO MIDWINTER MEETING

# Program Book

# ARO COUNCIL MEMBERS



**ELIZABETH OLSON,  
PH.D.**

*President  
(2022-2023)*



**YURI AGARWAL,  
M.D.**

*President- Elect  
(2022-2023)*



**BARBARA SHINN-  
CUNNINGHAM, PH.D.**

*Secretary/Treasurer  
(2020-2023)*



**JOHN OGHALAI,  
M.D.**

*Past-President  
(2022-2023)*



**RUTH LITOVSKY,  
PH.D.**

*Past Past President  
(2022-2023)*



**MATTHEW KELLEY,  
PH.D**

*Program Chair  
(2020-2023)*



**BARBARA CANLON,  
PH.D.**

*Communications Officer  
(2021-2024)*



**JOHN BRIGANDE,  
PH.D.**  
*Council Member  
(2020-2023)*



**MANUEL MALMIERCA,  
M.D.,PH.D**  
*Council Member  
(2021-2024)*



**AVRIL GENENE HOLT,  
PH.D.**  
*Council Member  
(2022-2025)*

# WELCOME FROM THE ARO PRESIDENT



Welcome to ARO 2023 in Orlando! ARO was founded in 1973, making this our 50th year! You can all be proud to be part of this terrific organization.

We are grateful to our members for keeping research in otolaryngology strong the past few years, with a blizzard of on-line events and two successful virtual meetings. It will be wonderful to see everyone in person this year.

This year brought 1191 abstract submissions, resulting in 217 oral presentations and 966 posters. Dr. Matt Kelley, who served as ARO President in the past, continues to provide leadership for ARO as the Chair of the Program Committee. Dr. Matt Kelley, Dr. Steve Lomber and the members of the Program Committee have organized a fantastic meeting. The Presidential Symposium is titled 'Auditory Processing, Pathology and Remediation,' with talks by Drs. Christopher Shera, Karl Grosh, Laurel H. Carney, Raymond Goldsworthy, Richard Einhorn, and Debara Tucci. This session will take place on Saturday, February 11th from 8 AM - 12 PM in the Ocean's Ballroom 5-12.

Dr. Doris Wu will receive the Award of Merit, the highest commendation in our society. We look forward to celebrating her accomplishments at the Award of Merit session on Monday, February 13th from 6 PM - 7:30 PM in the Ocean's Ballroom 5-12. The ceremony will be followed by a reception where all attendees are welcome.

Young Investigators: spARO has curated a full schedule for you including mentorship sessions and networking! Be sure to view the schedule and plan your conference experience.

Debara Tucci, Director of the NIDCD, will hold a Town Hall meeting on Sunday, February 12th from 6 PM - 6:30 PM in the Crystal Ballroom D-E, in conjunction with the ARO Business Meeting. At the conclusion of the business meeting, I will hand the gavel to our President-Elect, Dr. Yuri Agarwal, and thank Past-President, Dr. John Oghalai, and Past-Past-President Dr. Ruth Litovsky for all their help, and their outstanding service to ARO.

Again, it is my great pleasure to welcome attendees to the 2023 MidWinter Meeting. I hope you have a wonderful time at ARO!

# About ARO

## OUR HISTORY

The association was founded in 1973. It is under the direction of the ARO Council that consists of a President, a Past President, a President-Elect, a Secretary-Treasurer, a Communications Officer, a Program Committee chair, a Nomination Committee chair, and three Council Members At-Large, all of whom are elected from and by the membership. The functions of the organization are established through bylaws carried out with the help of committees and counsel from past presidents.

## OUR MISSION STATEMENT

The mission of the Association shall be to encourage and promote basic and clinical research in the broad fields of Otolaryngology, hearing and balance science, and related areas. To achieve these objectives, and to foster collegial assembly and stimulate scientific collaboration among its members, the Association shall encourage year-round scientific engagement through meetings and other activities.

## OUR VISION

Our vision is to pioneer inventive excellence in pure and applied science by nurturing researchers to perform the most rigorous and exciting science in the study of hearing and balance and related otolaryngological fields. We seek to use our collective knowledge to make fundamental discoveries and develop ground-breaking treatments that improve quality of life.

## OUR CORE VALUES

- **Science:** We promote rigorous original (same as mission) basic science and clinical research that moves forward our understanding of hearing and balance sciences and related fields. We strive to provide a forum for dissemination and meaningful discussion of results.
- **Diversity:** We acknowledge and honor the fundamental value and dignity of all individuals. We are committed to maintaining an inclusive environment that removes barriers and respects diverse people, approaches, and ideas.
- **Integrity:** We maintain the highest ethical standards in the collection, sharing and dissemination of research and champion best practices in both basic and clinical experimentation.
- **Collaboration:** We believe in listening and evolving together by embracing the exchange of ideas through initiatives including, but not limited to, interdisciplinary research, education, mentorship, and professional networking.
- **Education:** We support and empower our community by providing multi-faceted educational and mentorship opportunities relevant to early career professionals and throughout the career-span.





### **Closed Captioning**

ARO is providing live captioning in all its sessions and recordings.



### **Recording Policy**

ARO does not permit audio or photographic recording of any research data presented at the meeting- except for individuals who may have difficulty understanding the speaker during their initial presentation. Sessions that are being recorded by ARO will be available to registered attendees **after the conclusion** of the MidWinter Meeting for 14 days of additional viewing.



### **Breaks**

Breaks have been added to the meeting agenda in hopes of limiting fatigue. Please take breaks as needed.



### **A Special Note for the Disabled**

ARO wishes to take steps that are required to ensure that no individual with a disability is excluded, denied services, segregated, or otherwise treated differently than other individuals because of the absence of auxiliary aids and services.

If you need any auxiliary aids or services identified in the American with Disabilities Act, or any assistance, please contact ARO Meetings Department at [headquarters@aro.org](mailto:headquarters@aro.org); via telephone at 615-432-0100.

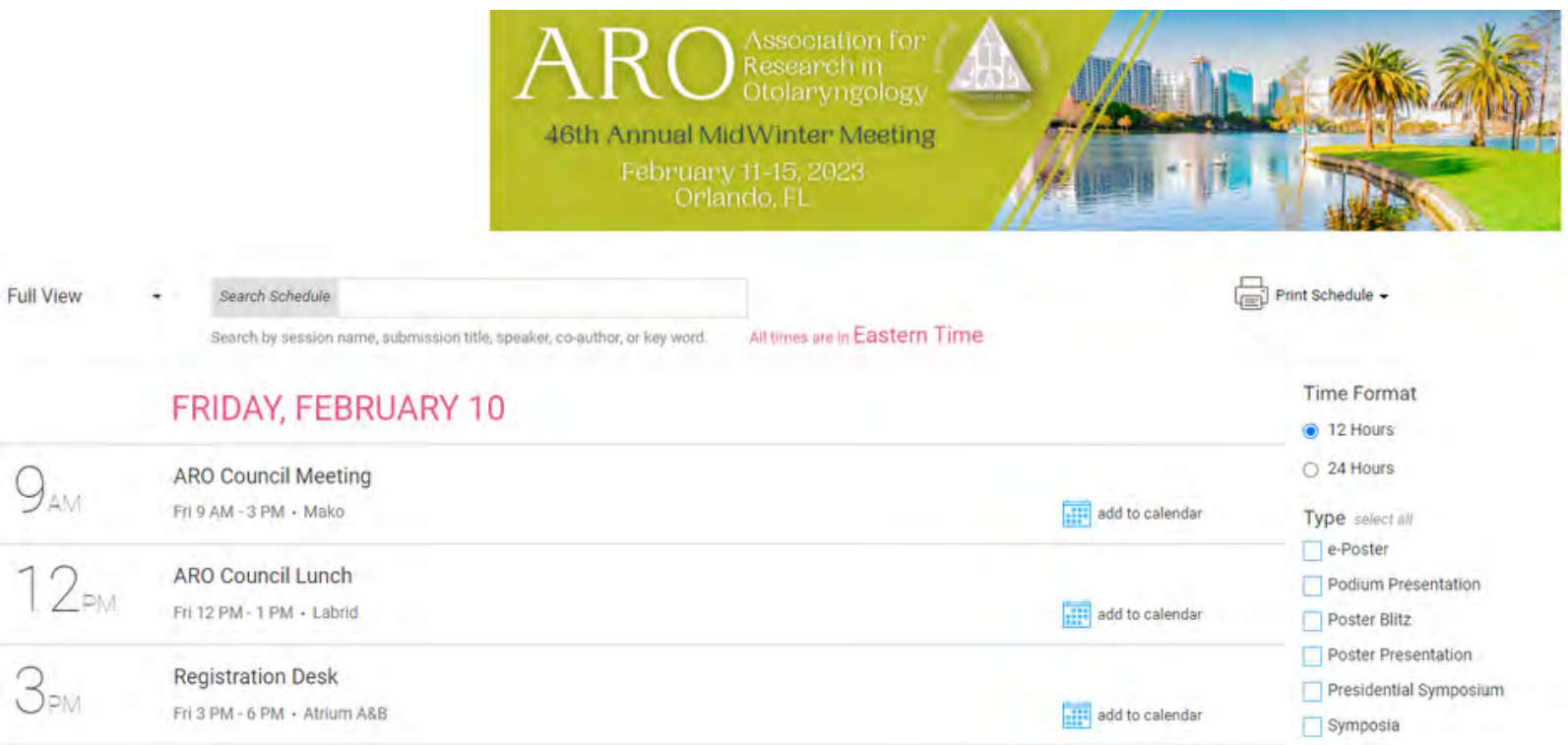
# SCHEDULE OF EVENTS

View the online schedule for the most up-to-date times, room assignments, and speaker times. By expanding the speaker list you can see when each speaker is slotted to present.

You can add the sessions you don't want to miss to your personal calendar and view the 2023 MWM abstracts in the schedule too! Visit the online schedule and select 'Abstract/Session info' for any session to see all that was submitted!

For a full guide on the tools available to you in the schedule, [please see here.](#)

[View the Schedule](#)



The screenshot displays the official website for the ARO 46th Annual MidWinter Meeting. The header features the ARO logo and the event details: "Association for Research in Otolaryngology", "46th Annual MidWinter Meeting", "February 11-15, 2023", and "Orlando, FL". Below the header, there is a search bar labeled "Search Schedule" and a "Print Schedule" button. The main content area is titled "FRIDAY, FEBRUARY 10" and lists three events: "ARO Council Meeting" (9 AM - 3 PM, Mako), "ARO Council Lunch" (12 PM - 1 PM, Labrid), and "Registration Desk" (3 PM - 6 PM, Atrium A&B). Each event has an "add to calendar" button. On the right side, there are options for "Time Format" (12 Hours selected, 24 Hours) and "Type" (e-Poster, Podium Presentation, Poster Blitz, Poster Presentation, Presidential Symposium, Symposia).

ARO Association for Research in Otolaryngology  
46th Annual MidWinter Meeting  
February 11-15, 2023  
Orlando, FL

Full View Search Schedule Print Schedule

Search by session name, submission title, speaker, co-author, or key word. All times are in Eastern Time

**FRIDAY, FEBRUARY 10**

9<sup>AM</sup> ARO Council Meeting  
Fri 9 AM - 3 PM • Mako  
add to calendar

12<sup>PM</sup> ARO Council Lunch  
Fri 12 PM - 1 PM • Labrid  
add to calendar

3<sup>PM</sup> Registration Desk  
Fri 3 PM - 6 PM • Atrium A&B  
add to calendar

**Time Format**  
☒ 12 Hours  
☐ 24 Hours

**Type** select all  
☐ e-Poster  
☐ Podium Presentation  
☐ Poster Blitz  
☐ Poster Presentation  
☐ Presidential Symposium  
☐ Symposia

**Apple App Store**

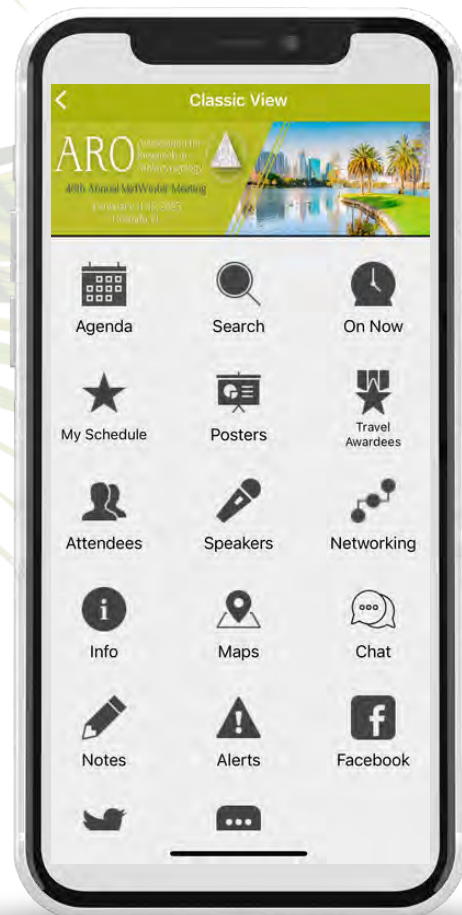
*Scan here!*



# **Download the ARO Mobile App**

**Download the app to view  
the agenda, chat with  
fellow attendees, view  
posters, and more!**

**Search  
"ARO 2023"**



*Scan here!*

**Google Play Store**



# THE 2023 MIDWINTER MEETING LOCATION IS THE RENAISSANCE ORLANDO AT SEAWORLD!

The sophisticated design flows through over 215,000 square feet of innovative, flexible function space including the new and dynamic 30,000 sq. foot expansion and expansive 20,000 square feet of lush, outdoor event space. From our breathtaking 10-story sun-bathed lobby to our 781 modern, residential suites and luxurious guest rooms - among the largest in the Orlando area - a distinctive, exhilarating journey to discovery awaits. The seasoned staff will exceed your expectations and provide the perfect combination of location, amenities and unexpected touches to create an unparalleled and memorable meeting. It's all here at the Renaissance Orlando at SeaWorld.

**ADDRESS:** 6677 Sea Harbor Drive, Orlando, Florida, 32821 USA


## Additional Information:

- [Transportation](#)
- [Nearby Restaurants](#)
- [Off Property Attractions](#)
- [Plan Your Visit Website](#)
- [Onsite Parking](#)

## AVAILABLE ACCESSIBILITY & ACCOMMODATIONS

ARO has Assisted Listening Devices available at the registration desk should they be desired. Please come to the registration desk and speak with an ARO Staff member (wearing green) for assistance. Each meeting room has an assigned receiver number for you to use for each session in that room.

ARO has translators available at the registration desk should they be desired. Please come to the registration desk and speak with an ARO Staff member (wearing green) for assistance.



## **Need to check in? Ask a question? Get assistance? Find us at the ARO Registration Desk during these hours:**

- Friday, 2/10/2023, 3:00 PM - 6:00 PM, Atrium
- Saturday, 2/11/2023, 7:00 AM - 7:00 PM, Crystal Registration
- Sunday, 2/12/2023, 7:00 AM - 7:00 PM, Crystal Registration
- Monday, 2/13/2023, 7:00 AM - 5:00 PM, Crystal Registration
- Tuesday, 2/14/2023, 7:00 AM - 6:00 PM, Crystal Registration
- Wednesday, 2/15/2023, 7:00 AM - 11:00 AM, Crystal Registration

**Outside of registration hours, email [headquarters@aro.org](mailto:headquarters@aro.org).**

## **JOIN THE CONVERSATION**

ARO has gone social and we invite you to join the online conversation. Please be sure to follow/like the following ARO social media accounts:

**@AROMWM**



**@AROMWM**



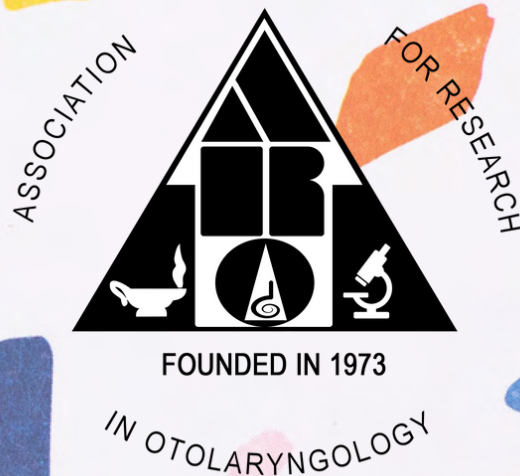
And do not forget to use the hashtag #2023MWM if you post pictures or comments about the 2023 Meeting.

## **NURSING MOTHERS**

If you are in need of using the private nursing mothers room, please ask a member of the ARO staff (wearing green).



# ARO is turning 50!



**JOIN US IN CELEBRATING 50 YEARS OF  
COMRADERY AND SCIENCE BY SHARING  
YOUR FAVORITE MEMORIES ON SOCIAL  
MEDIA!**

**USE #AROis50 SO WE CAN SEE YOUR  
BEST ARO MEMORIES!**



# ON-SITE POSTER DETAILS

The working area for displaying each poster presentation is **four (4) feet high and eight (8) feet wide**.

On your designated date, poster presenters will set up their poster according to your assigned number via the online schedule. Please see an example of how to find your assigned poster number and date here (Ex. SU1 = Sunday Poster #1):

Daily Poster Session Hours are Noon to Noon. Poster Presenters are to hang their physical poster on their assigned poster board no later than 11:59 AM on Their assigned date; then remove their poster the following day, no later than 11:59 AM due to the next poster session beginning at 12 PM. The poster session room doors open at 6:00 AM daily.

Mount your materials on the fiberboard by means of push pins (thumbtacks), which will be provided. Since your display will be held on the fiberboard with push pins, DO NOT mount your presentation materials on heavy board because doing so may make it difficult to keep the material in position.

## E-POSTER DETAILS

Attendees will be able to view e-posters online before, during and after the meeting. Poster presenters are to have their poster, transcript, and audio uploaded by February 8, 2023. **CLICK HERE** for a guide on how to navigate the virtual poster hall. You must be logged in and registered for the meeting to view the posters.

- All in-person posters presenters will have an e-poster
- Attendees may leave comments and questions on a poster at any time. Presenters can then answer these questions online and/or in-person if you visit their poster.

[Access the virtual poster hall!](#)

# NAME BADGES

Below are descriptions of the items you can add to your name badge. Take any that you desire!



- **Rainbow/Ally Sticker** - This sticker aims to support LGBTQ+ inclusion and equality in the meeting place. An Ally aims to raise knowledge, create understanding, and equip people not part of the LGBTQ+ community to be an ally for colleagues who are identifying as LGBTQ+.



- **Name Badge Ribbons** - Badge ribbons are a way to recognize & identify the roles of some attendees during the conference! Add those that apply to you!

## JOB BOARD

ARO has a virtual job board where interested parties can post their open positions and those open to new opportunities can share their resumes. Linked below is access to this virtual job board. You must be logged in and registered for the meeting to view the job board.

[Access the virtual job board!](#)

Onsite meeting attendees will be able to indicate if they have an open position or if they are interested in learning about job opportunities by wearing a cyan or yellow round sticker on their name badge.



- **Cyan Dot** - I am interested in learning about job opportunities!



- **Yellow Dot** - Ask me about job opportunities!

# 2022-2023 Program Committee

## **Program Committee Chair**

Matthew Kelley, Ph.D.

## **Scientific Program Chair**

Steve Lomber, Ph.D.

## **Committee Members**

Zubair Ahmed, Ph.D.

Hela Azaiez, D.Phil.

Carey Balaban, Ph.D.

Karen Banai, Ph.D.

Olivia Bermingham-McDonogh, Ph.D.

George Burwood, Ph.D.

Karen Gordon, Ph.D.

Shuman He, M.D.,Ph.D.

Fatima Husain, Ph.D.

Antje Ihlefeld, Ph.D.

Stéphane Maison, Ph.D.

Manuel Malmierca, Prof. Dr.

Rob Raphael, Ph.D.

Anthony Ricci, Ph.D.

Shinichi Someya, Ph.D.

Clark Strimbu, Ph.D.

Daniel Tollin, Ph.D.

Sean R. Anderson, M.S.,Ph.D.

George Ordiway, B.S.



# Presidential Symposia

## *'Auditory Processing, Pathology and Remediation'*

### **Chair:**

**Elizabeth Olson, Ph.D.**  
Columbia University

### **Presenters:**

**Christopher Shera, Ph.D.**  
University of Southern California  
*The Fire Within the Ear. Geometry, Resonance, and Waves*


**Karl Grosh, Ph.D.**  
University of Michigan  
*Review of Cochlear Mechanics*

**Laurel H. Carney, Ph.D.**  
University of Rochester  
*From the Ear to the Brain: A Neural Code That Leverages Inner-Ear Nonlinearities*

**Raymond Goldsworthy, Ph.D.**  
University of Southern California  
*Back to the Future: How the History of Cochlear Implants Illuminates Future Directions*

**Richard Einhorn, B.A., Composer**  
Hearing Technology Consultant  
*Current and Near-Future Trends in Hearing Technologies*

**Debara Tucci, M.D., M.S., M.B.A.**  
National Institute on Deafness and Other Communication Disorders/NIH  
*Global Impact of Hearing Loss, and Efforts to Improve Accessibility Worldwide*





# 2023 AWARD OF MERIT



**Doris Wu, Ph.D.**  
*NIH/NIDCD*

Doris Wu grew up in Hong Kong, where her mother was a grade-school teacher and her father a civil servant. She has loved biology ever since high school and she came to the United States for college, majoring in Biology and Chemistry at the University of Wisconsin - Stevens Point. Still passionate about biology but unsure about her next career move after graduation, she worked as a laboratory technician at the Department of Physiology, School of Medicine at the University of Southern California, where she later obtained her master's degree in 1978, studying endocrinology of the reproductive system. She then moved across town to the University of California - Los Angeles (UCLA) to further her graduate work in studying neuronal and glia interactions. Doris received her PhD from now the Department of Neurobiology in 1983. After a brief postdoctoral fellowship at the Mental Retardation Center at UCLA, she joined Dr. Constance Cepko's laboratory at the Department of Genetics, Harvard Medical School as a postdoctoral fellow. There, she studied cell type determination in the mammalian retina, focusing on the development of a subtype of amacrine cells.

As a sensory system developmental neurobiologist, Doris was drawn to the beauty and complexity of the inner ear structure and although she had never received formal training in this field, she accepted her first independent position at the Intramural program of NIDCD in 1993. She set out to decipher the molecular mechanisms underlying the formation of the inner ear. She rose through the ranks at the NIH, and now holds the position of Chief in the Laboratory of Molecular Biology, NIDCD. She views her scientific journey as deeply rewarding and complementary to that of many others in the development field who have identified some of the key genes and molecular pathways underlying the formation of this amazing organ. The knowledge gained from these discoveries continues to provide the basis for hair cell regeneration research and for understanding the etiology of hereditary deafness.

Doris has been a single mom since her son was 10 months old. Managing work and family life balance was a challenge when her son was growing up. Now, when she is not visiting her 102-year-old mother in Hong Kong, she enjoys cooking and taking walks while talking to life-long friends in her spare time.

# AWARD OF MERIT PAST RECIPIENTS

1978 Harold Schuknecht, MD \*  
1979 Merle Lawrence, PhD \*  
1980 Juergen Tonndorf, MD \*  
1981 Catherine Smith, PhD \*  
1982 Hallowell Davis, MD \*  
1983 Ernest Glen Wever, PhD \*  
1984 Teruzo Konishi, MD \*  
1985 Joseph Hawkins, PhD \*  
1986 Raphel Lorente de No, MD  
\*

1987 Jerzy E. Rose, MD \*  
1988 Jozef Zwislocki, ScD\*  
1989 Ake Flock, PhD\*  
1990 Robert Kimura, PhD\*  
1991 William D. Neff, PhD\*  
1992 Jan Wersall, PhD\*  
1993 David Lim, MD\*  
1994 Peter Dallos, PhD  
1995 Kirsten Osen, MD  
1996 Drs. Ruediger Thalmann,  
MD\* & Isolde Thalmann, PhD  
1997 Jay Goldberg, PhD\*  
1998 Robert Galambos, MD,  
PhD\*  
1999 Murray B. Sachs, PhD\*  
2000 David M. Green, PhD

2001 William S. Rhode, PhD  
2002 A. James Hudspeth, MD,  
PhD 2003 Dr. David Kemp  
2004 Donata Oertel, PhD  
2005 Edwin W Rubel, PhD  
2006 Robert Fettiplace, PhD  
2007 Eric D. Young, PhD  
2008 Brian C.J. Moore, PhD  
2009 M. Charles Liberman,  
PhD 2010 Ian J. Russell  
2011 Robert V. Shannon, PhD  
2012 David P. Corey, PhD  
2013 Karen P. Steel, PhD  
2014 H. Steven Colburn, PhD  
2015 Thomas B. Friedman,  
PhD  
2016 Geoffrey A. Manley, PhD  
2017 Alan Palmer, PhD  
2018 Christine Petit, PhD  
2019 Peter M. Narins, PhD  
2020 Lynne A. Werner, PhD  
2021 Tom Yin, PhD  
2022 Christoph Schreiner, MD,  
PhD

\* Deceased

# 2023 GERALDINE DIETZ FOX YOUNG INVESTIGATOR AWARD



**Michele Insanally, Ph.D.**  
*University of Pittsburgh*

Dr. Michele Insanally is an Assistant Professor in the Department of Otolaryngology at the University of Pittsburgh School of Medicine. Her research investigates how the brain constructs neuronal representations during adaptive auditory behaviors, how these behaviors are gated during learning, and how the population dynamics underlying these behaviors is disrupted in hearing disorders. Dr. Insanally's scientific approach combines neural recordings, behavior, optogenetics, circuit mapping, and computational models to uncover the mechanisms that allow the auditory system to flexibly gate the behavioral relevance of sounds in dynamic environments. A deeper understanding of how neural dynamics emerge and evolve during learning will open novel avenues for the treatment of hearing deficits caused by disease or injury and inform targeted therapies for central auditory processing disorders.

Prior to joining the faculty at Pitt, Dr. Insanally completed her postdoctoral work with Dr. Robert Froemke at New York University School of Medicine where she investigated the neural basis of auditory perception. Dr. Insanally received her PhD from the University of California, Berkeley working in the lab of Dr. Shaowen Bao, where she examined how early life experience affects the brain—specifically critical period plasticity in the developing rodent auditory cortex. She holds a bachelor's degree in the Biological Sciences from Columbia University, graduating with distinction in her major.

Dr. Insanally's research has garnered several awards and honors, including the NIH Pathway to Independence Award, Brain and Behavior Foundation Young Investigator Award, NYU Provost Postdoctoral Fellowship for Academic Diversity, Elizabeth Roboz Einstein Fellowship in Neurosciences, and NSF Graduate Research Fellowship.

# 2023 INNOVATOR AWARD IN CLINICAL SCIENCE



**Marlan Hansen, M.D.**  
*University of Iowa*

Marlan R. Hansen, MD is the Brian F. McCabe Distinguished Chair and Professor of the Department of Otolaryngology—Head and Neck Surgery and Professor of Neurosurgery and Molecular Physiology and Biophysics at the University of Iowa. He is the Co-Director of the Institute of Clinical and Translational Science at Iowa.

Dr. Hansen received his Bachelor of Science degree from Brigham Young University and completed medical school at the University of Chicago, Pritzker School of Medicine. He completed Otolaryngology residency and a postdoctoral research fellowship at the University of Iowa followed by a surgical fellowship in Neurotology/Skull Base Surgery at the House Ear Clinic/USC in Los Angeles. Following training, he joined the faculty at the University of Iowa.

Dr Hansen's research involves multidisciplinary approaches to basic, translational, and clinical investigations broadly related to auditory neurobiology and vestibular schwannoma tumorigenesis. He has a longstanding interest in the neurobiology of auditory neurons with a particular focus on understanding signaling pathways that govern neural survival, regeneration, and neurite guidance. His lab uses tissue and bioengineering approaches to improve the ability of cochlear implants to restore complex auditory perception including robotics-assistance for electrode array insertion, ultra-low fouling thin film coatings for medical implants, and novel drug and viral delivery methods to the cochlea. In clinical research, he collaborates with a large multidisciplinary team to evaluate factors that enhance outcomes with cochlear implantation including hearing preservation, robotics-assistance and intraoperative electrophysiological measures. He is a co-founder of IotaMotion, Inc that developed the first FDA authorized robotics device to assist with cochlear implant electrode array insertion.

# 2023 PIONEER AWARD IN BASIC SCIENCE



**Elisabeth  
Glowatzki, Dr. rer. nat.**  
*Johns Hopkins School of Medicine*

Elisabeth Glowatzki is the George T. Nager M.D. Professor of Otolaryngology Head and Neck Surgery and of Neuroscience at the Johns Hopkins School of Medicine in Baltimore, MD.


She grew up in Germany, where she received most of her training. She studied Biology in Göttingen (Diploma in 1987) and received her doctoral degree in Kaiserslautern (1993). Fascinated by hearing research, she pursued a postdoctoral fellowship in the Dept. of Otolaryngology in Tübingen with Dr. Peter Ruppertsberg (1993-1998). Here she implemented cellular physiology in excised cochlear tissue to study ion channels in cochlear hair cells. She spent 6 months as a visiting researcher at the University of Sussex, Brighton, in Dr. Ian Russell's laboratory in 1998. She continued her training at the Johns Hopkins School of Medicine, with Dr. Paul Fuchs (1998-2002), where she started her independent research laboratory as an Assistant Professor in 2002. Her work focuses on studying afferent and efferent synaptic transmission in the inner ear, both in the cochlea and in the vestibular end organs. The aim of her research is to elucidate cellular mechanisms underlying afferent and efferent function, and to contribute to finding approaches to prevent and cure inner ear malfunction. In 2015 she was promoted to Professor, as the first woman professor in the Department of Otolaryngology Head and Neck Surgery at Johns Hopkins. In 2020, she received the endowed George T. Nager M.D. Professorship and became the Associate Vice Director of Research.



# 2023 TRAVEL AWARD RECIPIENTS

Julia Abitbol  
Evelyn Aviles  
Lauren Barbush  
Isle Bastille  
Ghazaleh  
Behnammanesh  
Nir Ben-Shlomo  
Katelyn Berg  
Melia Bonomo  
Megan Bradley  
Daniel Bronson  
Sarah Buchholz  
Adrianna Caro  
Luis Cassinotti  
So-Young Chang  
Chenggang Chen  
Joseph Chin

Nam Hyun Cho  
Amanda Ciani  
Shaylyn Clancy  
Kameron Clayton  
Mo Cui  
PEDRO DE-LA-TORRE  
Artem Diuba  
Christin Ealer  
Christina Elling  
Victoria Figarola  
Charlotte Garcia  
Nastaran Gholami  
Courtney Glavin  
Leslie Gonzales  
Mukund Madhav Goyal  
Varun Goyal  
Samantha Hauser



Melissa Hazen  
Morgan Hess  
Aaron Hodges  
Ishwar Hosamani  
Kuu Ikaheimo  
Valerie Ingalls  
Manon JAFFREDO  
Diane Jung  
Yun Ji Kim  
Jihyun Kim  
Yehree Kim  
Panagiota Kitsopoulos  
Elouise Koops  
Torri Lee  
Xiayi Liao  
Wei-Ching Lin  
Liman Liu  
Emilia Luca  
Jack Martin  
Hannah Martin



Eduardo Martinez  
Vicente Medel  
Andreea Micula  
Ilaria Montano  
Peter Moon  
Takisha Morancy  
Charles Morgan  
Tobia Nava  
Rebecca Norris  
Dorothy W. Pan  
Kathryn Powers  
Xufeng Qiu  
Gunnar Quass  
Muhammad Rahman  
Lauren Ralston  
Katherine Regalado  
Justine Renauld  
Héctor Rincón  
Katelyn Robillard  
Marie Roche

Solymar Rolon-Martinez

Kevin Rose

Mark Saddler

Matthew Sergison

Ilkem Sevgili

Christopher Shults

Benjamin Shuster

Benjamin Silver

Anjali Sinha

Andrew Sivaprakasam

Amy Stahl

Peng Sun

Cathy Yea Won Sung

Matsya Thulasiram

Luan Tonelli

Gunseli Wallace

Wei Wei

Brian Sheng Yep Yeo

Razanne Zaghloul

Wang Zheng

Maggie Zink

Kaley Graves

Malinda McPherson

Nicholas Waring

Gabrielle Watson

Nesrine Benkafadar

Sharon Feng

Tyreek Jenkins

Kimberly Yurasits





# 2023 POSTER BLITZ PARTICIPANTS

Estephania Candelo Gomez

Dana Cherri

Seyoung Um

Paul Secchia

Matheus Macedo-Lima

Jonathan Fleegel

Anselm Gadenstaetter

Jiali Wang

Rafael da Costa Monsanto

Anissa Rym Saidia

Michael Nieratschker

Maurizio Cortada

Zhifen Zhang

Calvin Kersbergen

Courtney Austin

Anoop Basavanahalli Jagadeesh

Shengyang Yu

Tommy Peng

Mary Pressé

Xianhui Wang

Erik Petersen

Pierre Guillemot

Hedwig Velde

Hiroaki Mohri

Sara Momtaz Bokharaei

Andres Camarena

Luis Rivera-Perez

Kathrin Deborah Wicke

Ippei Kishimoto

Christopher Pastras

Nicholas Waring

Pavan Krishnan

Sandeep David

Andrea DeFreese

# SPARO SESSIONS AT THE MIDWINTER MEETING

*The following sessions happened virtually prior to the MWM*

## **Mentoring Session: Publishing**

Tuesday, January 31, 2023

3:00 - 5:00 PM ET

Sharing work in a peer-reviewed publication is an exciting and rewarding conclusion to a body of work, however the journey can be daunting when deciding when data collection is complete, choosing an appropriate journal, considering impact factor, sharing elucidating negative data, and deliberating other factors. On the other end of the manuscript, peer-reviewing submissions is a gratifying way to help the field while getting a sneak peek at bleeding-edge research, yet presents challenges when balancing praise and critiques while considering your own biases. In this session, two editors at top journals will share good approaches in publishing and reviewing research, and lead an open discussion where questions and discussion are encouraged.

### **Speakers:**

**Allison Coffin, PhD**

Associate Professor

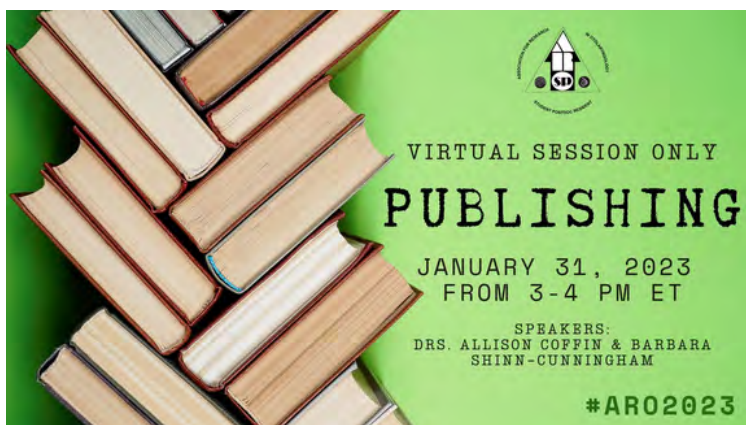
Washington State University Vancouver

**Barbara Shinn-Cunningham, Prof.**

Cowan Professor of Auditory Neuroscience

Director, Neuroscience Institute

Carnegie Mellon University





## Mentoring Session: Clinician Scientist

Tuesday, January 31, 2023

3:00 - 5:00 PM ET

Balancing demanding research and clinical responsibilities is challenging, but also provides unique research avenues and experiences. In this session, two leading clinician-researchers will share their experiences and lead a discussion about how clinicians can successfully integrate scientific investigation into their work.

Speakers:

Rene Gifford, Ph.D. & Michael Hoa, M.D.



## Mentoring Session: Work/Life Balance

Wednesday, February 1, 2023

11:00 AM - 1:00 PM ET

Research can be an overwhelming environment, with days long experiments and late night analysis sessions. The attrition of great researchers is very high, as people suffer from burnout because they didn't take proper precautions. In this session, we talk about strategies on how to create and maintain a good work-life balance and foster a long and above all healthy career in research.

### Speakers:

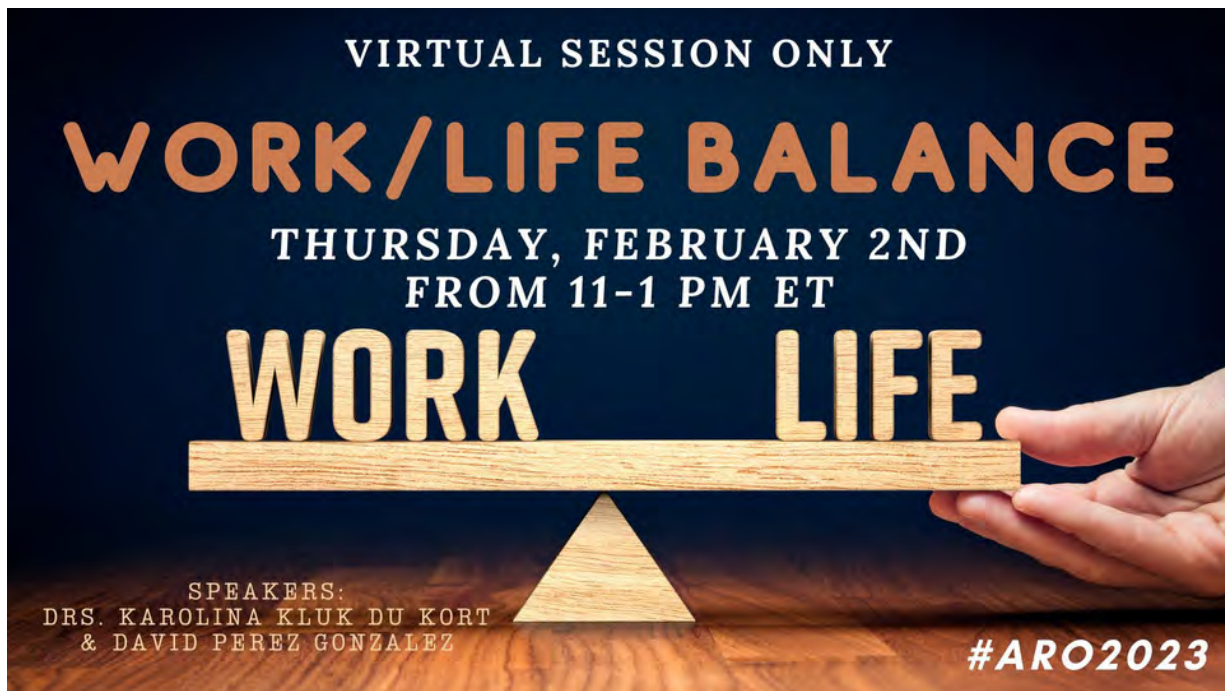
**Karolina Kluk, Ph.D.**

University of Manchester

**David Perez-Gonzalez, Ph.D.**

Postdoctoral researcher

Universidad de Salamanca



# Mentoring Session: Mentor-Mentee Communication

Thursday, February 2, 2023

3:00 PM - 5:00 PM ET

Good scientific mentorship is key for the personal and professional growth of trainees in academia. An effective way to maintain a good mentor-mentee relationship is good communication between both parties. In this session, trainees will discuss effective communication techniques, strategies to manage their relationships with their mentors, and techniques to resolve communication challenges to maximize the benefit from mentoring relationships. This session will consist of a presentation from a panel of leading scientists in an interactive forum for questions and discussion.

## Speakers:

**John Brigande, Ph.D.**

Professor of Otolaryngology  
Oregon Hearing Research Center

**Sabrina Absalon, PhD**

Assistant Professor of Pharmacology & Toxicology  
Indiana University



# SPARO SESSIONS AT THE MIDWINTER MEETING

*The following sessions will happen during the MWM*

## **spARO Mentoring Session: Navigating the Grant Landscape**

Saturday, February 11, 2023

12:45 PM - 1:45 PM

Canaveral 1-2

This session will feature short presentations from a panel of leading scientists to introduce various grants and fellowships for graduate students and postdoctoral fellows in the U.S. and Europe. The session will focus on federal and private research funding sources, eligibility considerations for selected grants, the application process, and the peer review process. This session will be an interactive forum with questions and discussion.

### **Speakers:**

**Sarah Verhulst, Ph.D.**

Full Professor

Hearing Technology @ WAVES, Dept. of Information Technology, Ghent University

**Peter Steyger, Ph.D.**

Director, Translational Hearing Center  
Creighton University





## spARO Mentoring Session: Careers in Industry

Sunday, February 12, 2023

12:45 PM - 1:45 PM

Canaveral 1-2

While there are similarities between working in academia and industry, pursuing a successful career in industry often requires a change in approach for former academics. Leaders from companies investigating phenomena related to ARO research will lead a discussion about how to successfully pivot from academic research into developing a career in industry.

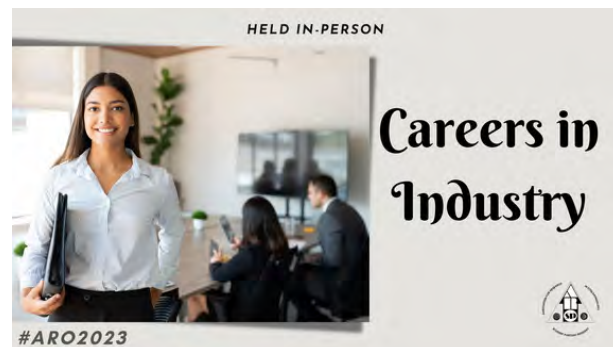
### Speakers:

**Michelle Valero, Ph.D.**

Senior Director, Head of Anatomy and Physiology  
Akouos Inc.

**Roger Calixto**

Hannover Medical University



## spARO Mentoring Session: Careers in Academia

Tuesday, February 14, 2023

12:45 PM - 1:45 PM

Canaveral 1-2

Establishing yourself as a principal investigator with a new lab in an academic environment can be an exciting yet bumpy road to navigate. The panelists in this session will share their observations and experiences in establishing and funding independent research laboratories, discuss the keys for successfully applying for research support, and suggest avenues available to new or mid-career faculty members to facilitate the success of their lab. This session will consist of short presentations from a panel of leading scientists in an interactive forum for questions and discussion.

### Speakers:

**Lisa Goodrich, Ph.D.**

Professor  
Harvard University

**Brandon Cox, Ph.D.**

Associate Professor  
Southern Illinois University School of Medicine





# ARO WORKSHOPS AT THE MIDWINTER MEETING

## ARO Diversity and Minority Affairs Workshop: Microaggressions, Allyship and Equitable Mentoring

SATURDAY, FEBRUARY 11 • 4:15 PM - 6:15 PM • CRYSTAL C

### Speaker:

**Dr. Sharon Milgram**

*Office of Intramural Training and Education at the National Institutes of Health*

### Organizers:

Dr. Tejbeer Kaur, Ph.D.

Dr. Radha Kalluri, Ph.D.

Dr. Melanie Barzik, Ph.D.

Dr. Matheus Macedo-Lima, Ph.D.

Dr. Diana Peterson, Ph.D.



The Association for Research in Otolaryngology is committed to increasing diversity, equity, and inclusion in science by fostering a welcoming community that removes barriers and embraces diverse people, approaches, and ideas. Despite ongoing efforts, the ARO community is still largely non-diverse and overrepresented by Caucasian/white and male-identifying members. Thus, the first objective of this workshop is to provide participants with an overview of the demographics of the ARO community with the goal of identifying areas that could be targeted for action towards increasing diversity. Moreover, the lack of diversity in the ARO community could be representative of a known larger issue in higher education – the “leaky pipeline” problem, i.e., the progressive evasion of women and people from minority groups at each stage of the educational system. With this phenomenon in mind, the second objective of this workshop is to provide strategies to improve the experience of and support for underrepresented populations in our communities, such as how to recognize and avoid microaggressions, equitable mentoring, anti-racism and effective allyship.

# spARO Special Initiative Workshop: Networking as a Tool for Resilience

*SUNDAY, FEBRUARY 12 • 4:15 PM - 6:15 PM • CANAVERAL 1-2*

## **Speakers:**

Lina Reiss and Tanvi Thakkar  
Zoe Owrutsky and Sean Anderson  
Bobby Gibbs and Stephen Dennison  
Ruth Litovsky  
Seba Ausili and Kristina DeRoy Milvae  
Amanda Lauer and Jonathan Peelle



The COVID-19 pandemic severely limited the ability of students and trainees to network. While networking is often recognized for its effectiveness in career advancement, it also plays a key role in building resilience to navigate challenging times in the field, particularly as much work remains to create an inclusive and equitable environment. This workshop will consist of six break-out groups themed after networking and resilience. They will focus on: (1) race, gender, and ability, (2) mental health and loss, (3) navigating career changes, (4) the roles of different mentors, (5) growing one's family, and (6) using social media to promote one's work. This workshop is meant to complement ARO's efforts regarding equity and inclusion. This workshop will be a space where participants can discuss issues relevant to their lives and form connections with other members of ARO. While the workshop will be primarily aimed at students and trainees, it will benefit the ARO community at large, and any conference attendees are welcome to join. This workshop will take place over 1 hour. It will begin with a brief introduction as to the purpose of the event and a description of resources that exist inside and outside of our field related to each topic. Then, participants will be invited to join a break-out group. Each break-out group will function as a roundtable discussion, where participants are invited to ask questions or share, and discussion leaders from the field can share experiences or guide the conversation. Each group will have one to two discussion leaders. Participants will be able to move from one topic to another at will during the session.

# OTHER WORKSHOPS AT THE MIDWINTER MEETING

***gEAR Workshop - Explore and Analyze Basics: Creating gene carts and dataset comparisons***

*SATURDAY, FEBRUARY 11 • 4 PM - 5:15 PM • BISCAYNE 1*

***gEAR Workshop - Explore and Customize I: Creating visualizations***

*SUNDAY, FEBRUARY 12 • 1 PM - 1:45 PM • BISCAYNE 1*

***Funding Your Scientific Genius!***

*MONDAY, FEBRUARY 13 • 12:45 PM - 2 PM • MERRITT*

***gEAR Workshop - Explore and Customize II: Customizing dataset collections***

*MONDAY, FEBRUARY 13 • 5 PM - 5:45 PM • BISCAYNE 1*

***gEAR Workshop - Intro and Analyze scRNA-seq data: The Single-cell workbench***

*TUESDAY, FEBRUARY 14 • 12:30 PM - 2 PM • BISCAYNE 1*

***Contemporary Issues in Publishing***

*TUESDAY, FEBRUARY 14 • 12:45 PM - 1:45 PM • MERRITT 2*

***gEAR Workshop - Analysis - Advanced: Transfer learning and Data upload***

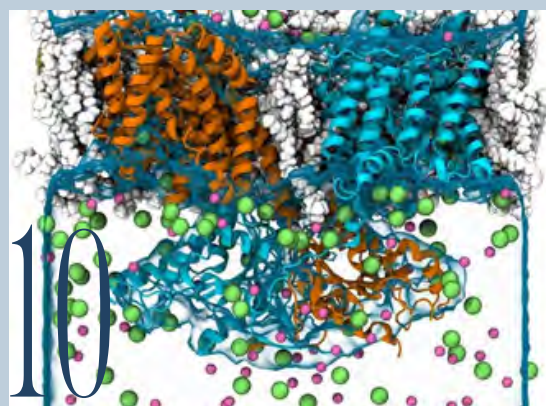
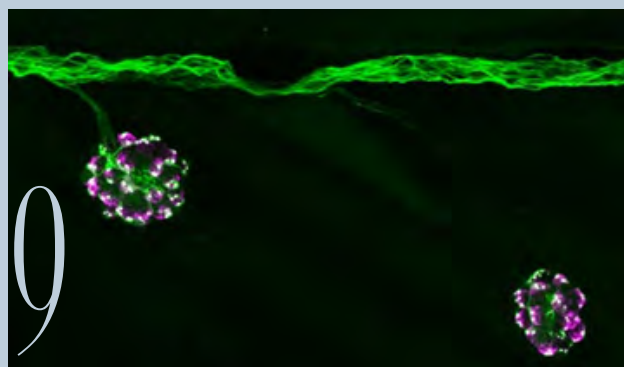
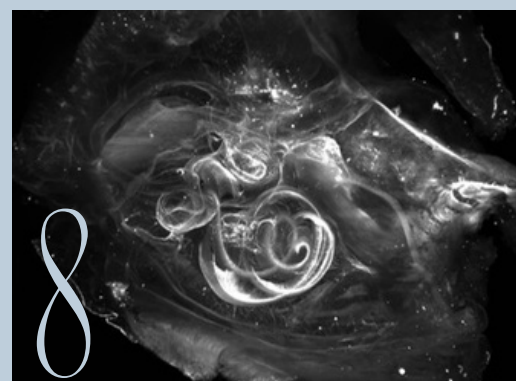
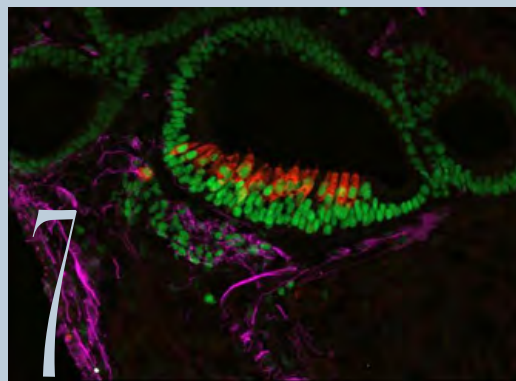
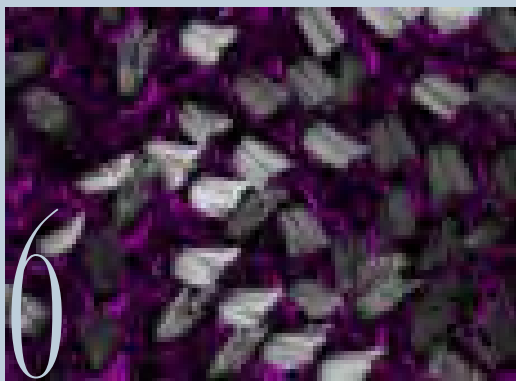
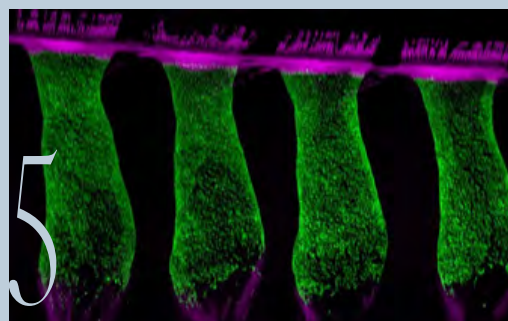
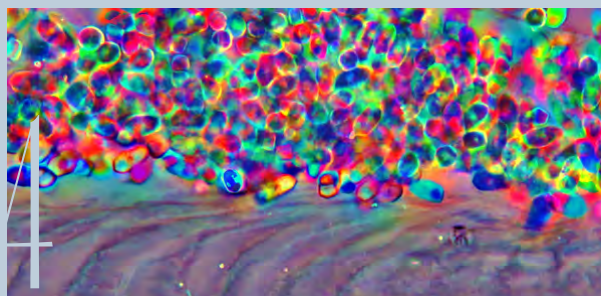
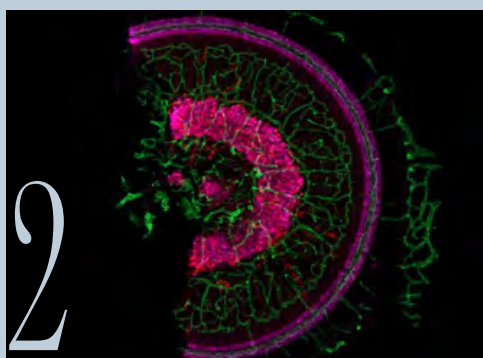
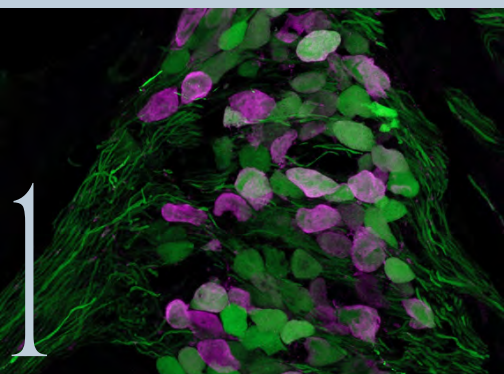
*TUESDAY, FEBRUARY 14 • 4:15 PM - 5:45 PM • BISCAYNE 2*



# EXTERNAL RELATIONS PHOTO CONTEST



SCAN ME 





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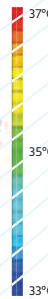
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# THANK YOU!

Hearing Health Foundation is proud and privileged to be the largest private nonprofit funder of hearing and balance research in the United States. Each year Hearing Health Foundation funds innovative proposals and emerging lines of inquiry to advance our understanding of hearing loss and related problems, generate new approaches in clinical diagnoses and treatments, and support professional advancement, especially for early stage investigators.

For this Hearing Health Foundation is profoundly grateful for the dedication and generosity of our volunteer peer reviewers and members of our oversight bodies. Members of our Scientific Review Committee, Council of Scientific Trustees, Scientific Advisory Board, and Board of Directors donate their time and expertise to help Hearing Health Foundation find the most promising and innovative science to fund each year.

**To our peer reviewers and other scientific volunteers,  
Hearing Health Foundation says thank you.**

We look forward to continuing to work with you to fund more groundbreaking research in otolaryngology.

Applications for the next grants cycle are due February 28.  
Please see [hhf.org/how-to-apply](http://hhf.org/how-to-apply).



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# 2024 Grants

## Funding Opportunities Now Available

Enabling breakthroughs in hearing and balance research

### The Grants



#### Discovery Grants

- 5 to 6 awards, up to \$50,000 each
- Grant period: Jan –Dec 2024
- Special consideration for research on Meniere's Disease or Causes of Sudden Hearing Loss



#### Discretionary Grants

- By AHRF invitation only – may be offered to one or two Discovery Grant applicants
- Birtman Grant – up to \$75,000 total
- Richard G. Muench Chairman's Grant – up to \$65,000 total



#### Otolaryngology Resident Grants

- Up to 5 awards, \$1,000 each grant
- Grant period: Jan 2024 – June 2025
- Applies to Chicago universities, Washington University of St. Louis, University of Miami, and Baylor College of Medicine

### To Apply

- Funding available for research related to hearing, or hearing and balance disorders of the inner ear /auditory pathway
- Basic or clinical studies accepted
- Deadline: August 15, 2023
- Notification: Late November 2023
- Funds disbursed: January 2024



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The Association for Research in Otolaryngology would like to thank the following exhibitors for their generous donations to the society. The Exhibit Hall is open throughout the meeting!



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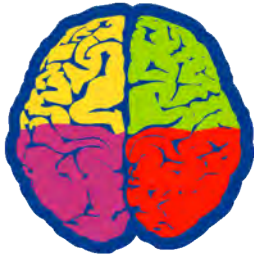


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THE HOUSE INSTITUTE  
FOUNDATION  
*FORMERLY HOUSE EAR INSTITUTE*



**Hearing Health  
Foundation**

Prevention | Research | Cure



## GOVERNMENT SUPPORT



National Institute on  
Deafness and Other  
Communication Disorders

**NIDCD: R13 Grant  
Conference Support for the  
Association for Research in  
Otolaryngology**

THE 47TH ANNUAL  
MIDWINTER MEETING

*February 3-7, 2024*  
ANAHEIM, CA



**SAVE THE DATE!**

**47TH ANNUAL  
MIDWINTER MEETING**

**FEBRUARY 3-7, 2024**

**ANAHEIM MARRIOTT**  
**ANAHEIM, CALIFORNIA,**  
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