



ARO MIDWINTER MEETING EXECUTIVE SUMMARY

2023



SCIENCE OF THE MEETING EVALUATION:

Attendees were given the opportunity to complete a post-meeting survey, which yielded the following conclusions regarding educational value, quality of content, and speakers. There were 630 respondents to the evaluation resulting in a response rate of 35.9%. Of those that responded to the meeting evaluation, 83.7% were current ARO members.

RESPONDENT BREAK DOWN

2022 Total Respondents = 485

2023 Total Respondents = 655

37.3% of all attendees responded to the evaluation

ATTENDANCE BY REGISTRATION CATEGORY:

Registration Type	2022 (virtual) Total- 1780	Rate	2023 Total- 1755	Rate
Regular Member Registration- Early Bird	730	\$300	595	\$345
Regular Member Registration- Standard	-	-	110	\$395
Non-Member Registration- Early Bird	280	\$520	91	\$565
Non-Member Registration- Standard	-	-	38	\$665
Senior Registration	25	\$100	27	\$100
Student/PostDoc & Resident Member Registration- Early Bird	414	\$120	572	\$150
Student/PostDoc & Resident Member Registration- Standard	-	-	86	\$175
Student/PostDoc & Resident Non-Member Registration- Early Bird	331	\$220	107	\$250
Student/PostDoc & Resident Non-Member Registration- Standard	-	-	17	\$295
Undergraduate	-	-	-	-
Main Session Video Recordings	-	-	38	\$150

ATTENDANCE BY COUNTRY:

Top 5 countries:

United States of America [1231] Germany [100] South Korea [75] United Kingdom [56] France [42]

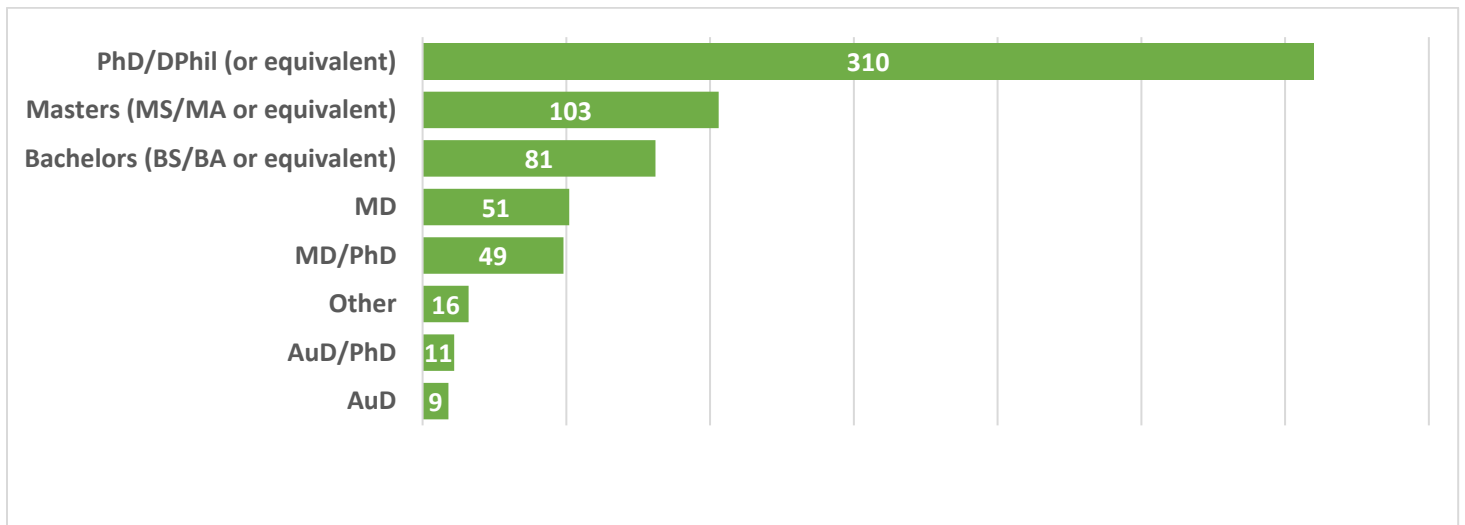


Country	2022 (virtual)	2023
<i>United States</i>	1281	1231
<i>Germany</i>	90	100
<i>South Korea</i>	63	75
<i>United Kingdom</i>	56	56
<i>France</i>	50	42
<i>Canada</i>	38	38
<i>Japan</i>	35	28
<i>Netherlands</i>	41	27
<i>Israel</i>	11	16
<i>Spain</i>	14	16
<i>Sweden</i>	8	14
<i>Denmark</i>	17	13
<i>Belgium</i>	14	12
<i>Australia</i>	15	10
<i>Austria</i>	10	9
<i>China</i>	17	9
<i>Switzerland</i>	17	8
<i>Colombia</i>	0	4
<i>Finland</i>	4	4
<i>Taiwan</i>	9	4
<i>Argentina</i>	0	3
<i>Czech Republic</i>	4	3
<i>India</i>	6	3
<i>Italy</i>	3	3
<i>Poland</i>	2	3
<i>Ireland</i>	0	2
<i>New Zealand</i>	3	2
<i>Portugal</i>	1	2
<i>Singapore</i>	0	2
<i>Chile</i>	1	1
<i>Hong Kong</i>	3	1
<i>Qatar</i>	1	1
<i>Slovakia</i>	1	1

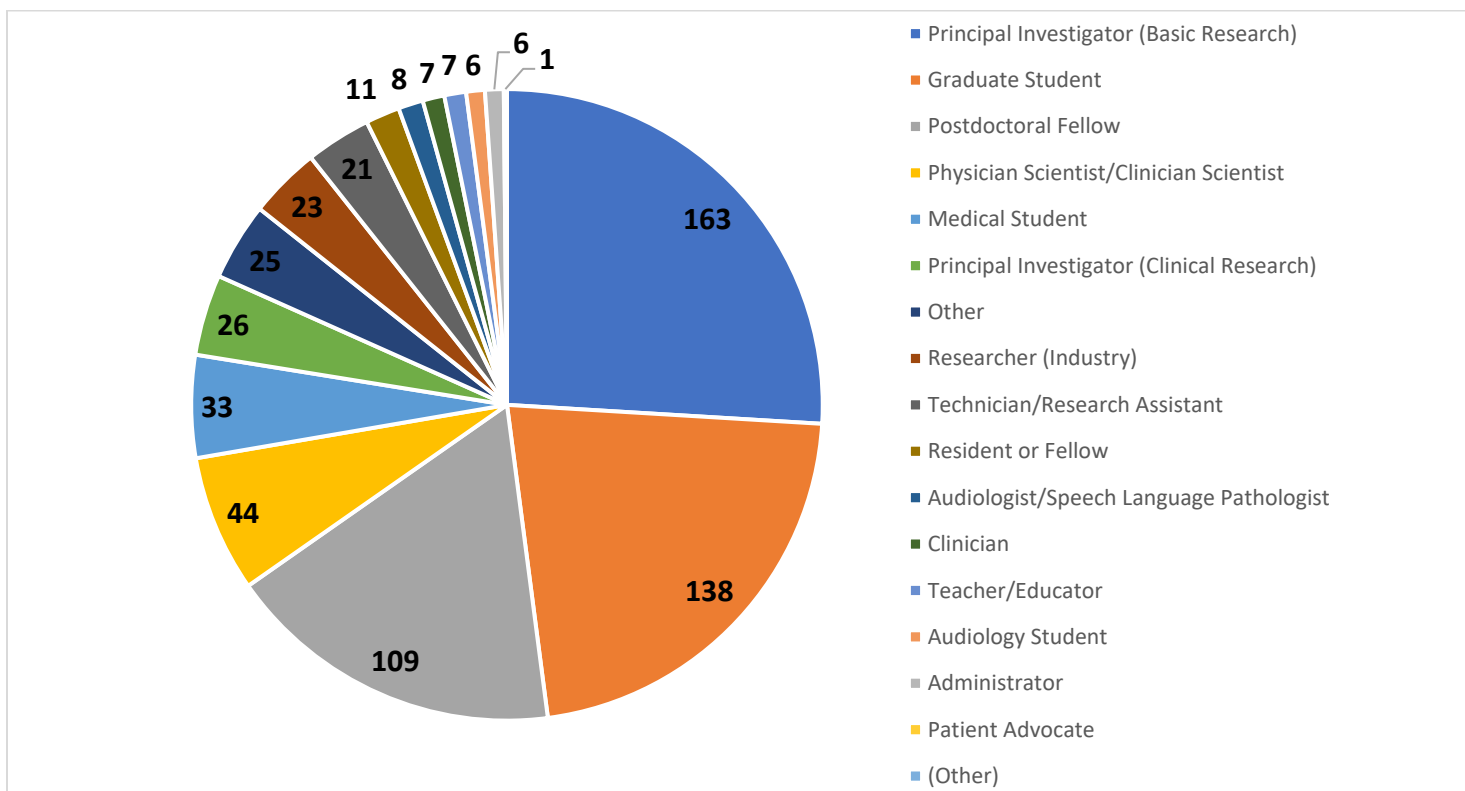


Attendee Demographics:

Degree Breakdown by Attendee



Attendee Occupation: 2023





Rate the scientific content of the MWM with respect to the following topics:

	2022 (virtual)	2023
Aging	81.3% of Attendees rated Good or Excellent	91.6% of Attendees rated Good or Excellent
Auditory Brainstem	82.6% of Attendees rated Good or Excellent	86.6% of Attendees rated Good or Excellent
Auditory Cortex	85.4% of Attendees rated Good or Excellent	86.3% of Attendees rated Good or Excellent
Auditory Nerve	83.8% of Attendees rated Good or Excellent	88.2% of Attendees rated Good or Excellent
Clinical Otolaryngology and Audiology	76.8% of Attendees rated Good or Excellent	76.6% of Attendees rated Good or Excellent
Cochlear /Vestibular Implants, Prostheses	87% of Attendees rated Good or Excellent	83.6% of Attendees rated Good or Excellent
Development	83.7% of Attendees rated Good or Excellent	90.6% of Attendees rated Good or Excellent
Genetics	82.9% of Attendees rated Good or Excellent	85.2% of Attendees rated Good or Excellent
Inner Ear	87.5% of Attendees rated Good or Excellent	88.1% of Attendees rated Good or Excellent
Middle Ear	70.6% of Attendees rated Good or Excellent	79.8% of Attendees rated Good or Excellent
Perception/Psychophysics	80.7% of Attendees rated Good or Excellent	86.9% of Attendees rated Good or Excellent
Repair and Regeneration	85.3% of Attendees rated Good or Excellent	86.2% of Attendees rated Good or Excellent
Vestibular	69% of Attendees rated Good or Excellent	79.2% of Attendees rated Good or Excellent

Audio Visual Services & Technology

	2023
Please rate the following aspects of the meeting venue: AI Closed Captioning	78.4% Rated Good or Excellent
Please rate the following aspects of the meeting venue: Human Closed Captioning	86.3% Rated Good or Excellent
Please rate the following aspects of the meeting venue: Audio/visual services	85.9% Rated Good or Excellent
Please rate the following aspects of the meeting venue: Speaker Ready Room	94.0% Rated Good or Excellent



Please rate the following aspects of the meeting venue: Mobile App

77.1% Rated Good or Excellent

How would you rate this meeting's organization?

	2022 (virtual)	2023
Podium Sessions (selected from abstracts)	84.5% of Attendees rated Good or Excellent	90.2% of Attendees rated Good or Excellent
Symposium Sessions	88.1% of Attendees rated Good or Excellent	92.7% of Attendees rated Good or Excellent
Poster Session	68.1% of Attendees rated Good or Excellent	95.3% of Attendees rated Good or Excellent
Awards Meeting	79.3% of Attendees rated Good or Excellent	69.5% of Attendees rated Good or Excellent
Business Meeting	79.8% of Attendees rated Good or Excellent	75.0% of Attendees rated Good or Excellent

Location, Venue, and Services:

	2023
Please rate the following aspects of the meeting venue: Exhibitors	74.8% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: Hotel Accommodations	74.0% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: pre-arranged small meeting spaces	80.4% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: Informal meeting spaces	85.7% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: Coffee and tea availability	92.8% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: Nursing / pumping accommodations	72.8% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: Airport accessibility	78.7% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: Local transportation	50.2% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: Local safety	81.4% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: Local food availability	27.9% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: Exercise options	55.1% of Attendees rated Good or Excellent



Please rate the following aspects of the meeting venue: Awards Reception	69.6% of Attendees rated Good or Excellent
Please rate the following aspects of the meeting venue: Hair Ball	91.2% of Attendees rated Good or Excellent

Attendance Breakdown by Session:

Session Name	Room Count
Presidential Symposium	1200
spARO Mentoring Session: Navigating the Grant Landscape	39
Inner Ear Course Open House	36
Podium #1 - Gene Therapy	83
Podium #2 - Tinnitus: Experiments and Models	368
Symposium #3 - Brain Plasticity in Deafness	144
Poster Blitz	132
Charles Steele Symposium	60
ARO Diversity and Minority Affairs Workshop: Microaggressions, Allyship and Equitable Mentoring	45
NIDCD SBIR/STTR Grants for Product Development Workshop	16
NIDCD Early Stage and New Investigators Workshop: Navigating the NIH	40
NIDCD Research Training & Career Development Workshop	22
Podium #4 - Hearing Loss: Consequences and Adaptation	165
Podium #5 - From Cortical Processing to Perception	123
Podium #6 - Inner Ear Therapeutics	337
Podium #7 - Development and Patterning of Sensory Structures	332
Podium #8 - Peripheral Auditory Mechanisms	285
Symposium #9 - Auditory Expectations, Learning and Plasticity	238
spARO Mentoring Session: Careers in Industry	84
Podium #10 - Hair Cells: Synapses and Innervation	230
Podium #11 - Inner Ear Sensory Cell Regeneration	271
Symposium #12 - Novel Approaches to Ototoxicity Management Across the Life Course	102
spARO Special Initiative Workshop: Networking as a Tool for Resilience	72
Neil Segil Memorial Symposium	166
ARO Business Meeting	48
spARO Science Communication Workshop	29
Podium #13 - Synapse and Auditory Nerve in Hidden Hearing Loss	265
Podium #14 - Speech Perception: Imaging and Modelling	147
Symposium #15 - Multiomics Approaches to Further the Understanding of Hearing Loss and Tinnitus: Integrating Different Omics Data Types to Identify Biomarkers, Unravel Causal Pathways, and Reveal Treatment Targets	130



Podium #16 - New Structural and Functional Perspectives of the Auditory Brainstem	148
Podium #17 - Aging: Animal Models	186
Symposium #18 - Putting Tinnitus Theories to the Test	167
Funding Your Scientific Genius!	29
Short Course- Part 1: Single Cell “Omics”; A Practical Introduction to Molecular Analysis at the Single Cell Level	150
Podium #19 - Binaural and Spatial Hearing: Behavior and Electrophysiology	91
Symposium #20 - Music to our Ears: Does Musical Training Improve Auditory and Speech Processing and Perception?	168
Symposium #21 - New Frontiers in Genetic Testing for Hearing Loss	155
Women, Gender, Minorities and Allies in Science Symposium	88
ARO Awards Ceremony	361
Podium #22 - Illuminating Auditory Function and Dysfunction Through Genetics	137
Podium #23 - Psychoacoustics	127
Podium #24 - Inner Ear: Anatomy & Physiology	244
Podium #25 - Vestibular Potentials, Blast Injury and Diagnostics	124
Podium #26 - Cisplatin Ototoxicity	192
Symposium #27 - Online Experimentation in Audition: Recent Advances and Future Directions	112
Behind the Scenes with Publication!	43
spARO Mentoring Session: Careers in Academia	24
Podium #28 - Hair Cells: Function and Mechanotransduction	250
Podium #29 - Factors Impacting Cochlear Implant Outcomes	143
Podium #30 - Non-Sensory Processes in Speech Perception	79
Short Course- Part 2: Single Cell “Omics”; A Practical Introduction to Molecular Analysis at the Single Cell Level	85
Symposium Honoring the Contributions of Steve Colburn	82
Committee Reception	50
spARO Town Hall	16
Podium #31 - Cochlear Modeling and Mechanics	87
Podium #32 - Aging: Sensory Disorders and Cognitive Impairments	94
Symposium #33 - Hyperacusis: Diversity in Cause, Expression, and Advocacy	63
Podium #34 - Auditory Processing, Challenges and Progress	82
Podium #35 - Vestibular Periphery: From Molecules to Neurons	119
Symposium #36 - The Eyes as a Window to Auditory Processing and Perception	83

Overall Workshop Questions:

How would you rate this year's workshops?

	2022 (virtual)	2023
NIDCD Workshop #1 – applying for NIDCD Training and Career Development Awards	81% of Attendees rated Good or Excellent	81% of Attendees rated Good or Excellent



NIDCD Workshop #2 – Early Stage Investigator (ESI) and New Investigators (NI)	91% of Attendees rated Good or Excellent	91% of Attendees rated Good or Excellent
NIDCD Workshop #3 – SBIR and STTR Grant Programs from NIH / NIDCD	83.3% of Attendees rated Good or Excellent	83.6% of Attendees rated Good or Excellent
gEAR Workshop	97.2% of Attendees rated Good or Excellent	86.0% of Attendees rated Good or Excellent
Funding Your Scientific Genius!	89.3% of Attendees rated Good or Excellent	81.6% of Attendees rated Good or Excellent
Science Communication Workshop- Designing and delivering effective conference presentations	-	80.2% of Attendees rated Good or Excellent
Behind the Scenes with Publication!	89.2% of attendees rated Good or Excellent	86.0% of Attendees rated Good or Excellent
Microaggressions, Allyship and Equitable Mentoring	-	90.2% of Attendees rated Good or Excellent
Networking as a Tool for Resilience	-	83.8% of Attendees rated Good or Excellent
Careers in Industry	-	83.3% of Attendees rated Good or Excellent

Pre/Post Conference Date Sessions:

Workshop- Translational Delivery Approaches for Inner Ear Therapies	75
gEAR Workshop - Explore and Analyze Basics: Creating Gene Carts and Dataset Comparisons	73
gEAR Workshop - Explore and Customize I: Creating Visualizations	322
gEAR Workshop - Explore and Customize II: Customizing Dataset Collections	27
gEAR Workshop - Explore and Customize II: Customizing Dataset Collections	27
gEAR Workshop - Intro and Analyze scRNA-seq Data: The Single-Cell Workbench	20
gEAR Workshop - Analysis - Advanced: Transfer Learning and Data Upload	7
gEAR Basics	53
gEAR Advanced	36
spARO Town Hall	10
spARO Mentoring Session: Careers in Industry	30
Funding your Scientific Genius!	11
spARO Mentoring Session: Mentor-Mentee Communication	13
NIDCD Workshop: SBIR/STTR	7
NIDCD Workshop: New Investigator/Early Stage Investigator	17
spARO Mentoring Session: Navigating the Grant Landscape	20
spARO Mentoring Session: Job Search and Independence in Academia	17
spARO/Mentorship Program Social	20



Overall Attendance Questions:

	2022 (virtual)	2023
Is this your first ARO Meeting?	10%- Yes; 90% No	16%- Yes; 84% No
How many ARO Meetings have you attended in the past?	0 Meetings = 49 1 Meeting = 99 2 Meetings = 81 3 Meetings = 77 4 Meetings = 55 5 Meetings = 120 3 or 4 Meetings = 2 4 or 5 Meetings = 2	0 Meetings = 100 1 Meeting = 136 2 Meetings = 99 3 Meetings = 76 4 Meetings = 58 5+ Meetings = 158 3 or 4 Meetings = 134

Overall spARO Questions:

spARO is the student, postdoc, and medical resident chapter of the Association for Research in Otolaryngology (https://www.aro.org/sparo-students-postdocs). Are you a trainee, and therefore automatically a member of spARO?	35.3%- Yes, 64.3%- No
Did you attend any spARO virtual coffee hours during 2022/2023?	16.3%- Yes, 83.7%- No

What is the most effective way for spARO to communicate their activities? (check all that apply)

	2022	2023
Email	153 respondents selected this option	196 respondents selected this option
Facebook	14 respondents selected this option	15 respondents selected this option
Instagram	10 respondents selected this option	25 respondents selected this option
Twitter	29 respondents selected this option	41 respondents selected this option
ARO/spARO website	51 respondents selected this option	75 respondents selected this option
Slack	9 respondents selected this option	20 respondents selected this option
Reddit	2 respondents selected this option	8 respondents selected this option

How would you rate the following mentoring sessions?



	2022 (virtual)	2023
Publishing	77.1% of Attendees rated Good or Excellent	73.1% of Attendees rated Good or Excellent
Careers in Industry	88% of Attendees rated Good or Excellent	65.6% of Attendees rated Good or Excellent
Clinician Scientist	100% of Attendees rated Good or Excellent	73.4% of Attendees rated Good or Excellent
Navigating the Grant Landscape	81.5% of Attendees rated Good or Excellent	62.0% of Attendees rated Good or Excellent
Science Communication	N/A	60.5% of Attendees rated Good or Excellent
Careers in Academia	93.5% of Attendees rated Good or Excellent	66.7% of Attendees rated Good or Excellent
Job Search and Independence in Academia	N/A	69.9% of Attendees rated Good or Excellent
Mentor-Mentee Communication	92.6% of Attendees rated Good or Excellent	64.3% of Attendees rated Good or Excellent
Teaching and Research with Undergraduates	93.8% of Attendees rated Good or Excellent	70.2% of Attendees rated Good or Excellent
Diversity and Minority Affairs Roundtable	N/A	90.2% of Attendees rated Good or Excellent
SpARO Science and Communication Workshop	N/A	80.2% of Attendees rated Good or Excellent



ARO 2023 Evaluation Comments

Please Note: All comments from attendees are left unedited

2023 Evaluation Comments

- What can ARO do to support trainees that express doubts about their potential success and happiness in a research career? [CLICK HERE](#) for responses.
- Please write any additional comments about this year’s workshops: [CLICK HERE](#) for responses.
- Please write any additional comments about the scientific content of the MidWinter Meeting: [CLICK HERE](#) for responses.
- Please add any additional comments about the in-person meeting venue: [CLICK HERE](#) for responses.
- Do you have any other additional comments or feedback for ARO? [CLICK HERE](#) for responses.