| Abstract #1 | **Title:** Effects of listener age, talker accent, and semantic context on lexical access  
**Authors:** Rebecca E. Bieber*, Christian Brodbeck, Vera Yevsukov, and Samira Anderson  
**Affiliations:** University of Maryland, College Park |
|-------------|--------------------------------------------------|
| Abstract #2 | **Title:** Benefits of a time-expansion protocol for recognition of non-native speech by older listeners  
**Authors:** Anna R. Tinnemore*, Rebecca E. Bieber, Sandra Gordon-Salant  
**Affiliations:** Department of Hearing & Speech Sciences, University of Maryland, College Park |
| Abstract #3 | **Title:** Effects of noise type on speech quality ratings in older adults with hearing loss  
**Authors/Affiliations:**  
- Melinda C. Anderson* University of Colorado School of Medicine (Submitting Author)  
- Kathryn H. Arehart#, University of Colorado Boulder (Presenting Author)  
- Song Hui Chon, Belmont University  
- Lewis O. Harvey, Jr., University of Colorado Boulder  
- James M. Kates, University of Colorado Boulder  
- Elizabeth B. McNichols, University of Colorado Boulder  
- Emily Lundberg, University of Colorado Boulder  
- Pamela Souza, Northwestern University  
- Varsha H. Rallapalli, Northwestern University |
| Abstract #4 | **Title:** Comparing performance on a speech-in-noise task among personal sound amplification products  
**Authors:** Lincoln Dunn*, Karen S. Helfer, Sara Mamo, Michael Clauss  
**Affiliations:** University of Massachusetts |
| Abstract #5 | **Title:** Localization Comparison Using Traditional Hearing Aids and Personal Sound Amplification Products  
**Authors:** Nirmal Kumar Srinivasan*, #, 1, Nicholas Reed2, 3, Frank Lin2, 3, Peggy Korczak1, Breanna Collins1, Tiffany Connatser1, and Christina Downs1  
**Affiliations:**  
1) Towson University  
2) John Hopkins University School of Medicine  
3) Center on Aging Health, John Hopkins University |
| Abstract #7 | **Title:** Tolerance to Cross-modal Asynchronies in Early Auditory Processing of Speech Declines in Older Adults  
**Authors:** Alexandra Jesse*# and Elina Kaplan  
**Affiliations:** University of Massachusetts, Amherst |
| Abstract #8 | **Title:** How Do Spoken Sentence Predictability and Cognitive Load Affect Cognitive Spare Capacity in Elderly Adults?  
**Authors:** Cynthia R. Hunter*#1, David B. Pisoni2, & Larry E. Humes3  
**Affiliations:**
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| Abstract #9 | **Title:** The Quick Repeat-Recall Test (Quick-RRT): An integrative and clinically-oriented assessment of realistic speech-in-noise communication.  
**Authors:** Christopher Slugocki*#, Francis Kuk, Petri Korhonen, & Neal Ruperto  
**Affiliations:** Widex Office of Research in Clinical Amplification (Widex ORCA-USA). |
|---|---|
| Poster | **Abstract #11**  
**Title:** Assessing the Time Course of Perceptual Learning with Pulse Rate Discrimination Training in Younger and Older Adults  
**Authors:** Lindsay A. DeVries, Alyson Schapira, Samira Anderson, Matthew J. Goupell, Ed Smith, Sandra Gordon-Salant  
**Affiliations:** University of Maryland, College Park |
| **Abstract #12**  
**Title:** Logical and Auditory Inference Making: Performance in the HINT in normally-hearing and hearing-impaired listeners  
**Authors:** Victoria Stenbäck*# 1,2, Erik Marsja 1,2, Henrik Danielsson 1,2, Jerker Rönnberg 1,2  
**Affiliations:**  
1) Disability Research Division, Linköping, Sweden.  
2) Department of Behavioural Sciences and Learning, Linköping University, Sweden |
| Poster | **Abstract #13**  
**Title:** Examining how Cognitive Functioning, Aging, and Hearing Loss, Affect Speech-in-Noise Performance  
**Authors:** Erik Marsja*#1,2, Henrik Danielsson1,2, Victoria Stenbäck1,2, & Jerker Rönnberg1,2  
**Affiliations:**  
1) Disability Research Division, Linköping, Sweden  
2) Department of Behavioural Sciences and Learning, Linköping University, Sweden |
| Poster | **Abstract #14**  
**Title:** Does working memory mediate self-reported difficulties in noise for older listeners?  
**Authors:** Katie Brow,*# Lindsay A. DeVries, Sandra Gordon-Salant  
**Affiliations:** University of Maryland, College Park |
| Poster | **Abstract #15**  
**Title:** The Contribution of Personality Traits to Hearing Handicap in Older Adults  
**Authors:** Kate McClannahan*# and Mitchell Sommers  
**Affiliations:** Department of Psychological and Brain Sciences, Washington University in St. Louis |
| Poster | **Abstract #17**  
**Title:** The association between auditory function and serum aldosterone levels in older age  
**Authors:** Jitpakorn Pichaitanaporn*#, Taylor Traficant, David A. Eddins, Ann C. Eddins |
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| Abstract #18 | **Poster** | **Title:** EEG Frequency Measures During Effortful Listening  
**Authors:** David B. Ryan*, 1, Mark A. Eckert 2, Eric W. Sellers 3, Kim S. Schairer 1, Sherri L. Smith 4  
**Affiliations:**  
1) Hearing & Balance Research Program James H. Quillen VA Medical Center, Mountain Home TN.  
2) Medical University of South Carolina, Charleston SC.  
3) East Tennessee State University, Johnson City TN.  
4) Duke University School of Medicine, Durham NC |
| --- | --- | --- |
| Abstract #20 | **Poster** | **Title:** Processing temporal cues for word identification in adult cochlear-implant users: Effects of aging and context  
**Authors:** Zilong Xie*, Sandima Anderson, Sandra Gordon-Salant, and Matthew J. Goupell  
**Affiliations:** Department of Hearing and Speech Sciences, University of Maryland, College Park |
| Abstract #22 | **Poster** | **Title:** How effective are speech adaptations? A closer look at the effects of elderspeak  
**Authors:** Raheleh Saryazdi*, Tamara Mostarac, Craig G. Chambers  
**Affiliations:** University of Toronto |
| Abstract #26 | **Poster** | **Title:** The combined predictive value of multiple cognitive abilities for speech-in-noise perception by older adults  
**Authors:** Antje Heinrich, Sarah Knight  
**Affiliations:**  
1) Manchester Centre for Audiology and Deafness (ManCAD), University of Manchester, UK  
2) Speech, Hearing & Phonetic Sciences, University College London, UK  
3) MRC Institute of Hearing Research, University of Nottingham, UK |
| Abstract #28 | **Poster** | **Title:** Inhibition of Estrogen Modulates Autophagic Processes and Auditory Function in Aging Female CBA/CaJ Mice  
**Authors:** XiaoXia Zhu, Bo Ding, McKenzie Watson, Tanika T. Williamson, Robert D. Frisina  
**Affiliations:**  
1) Department of Medical Engineering, College of Engineering and Morsani College of Medicine, University of South Florida  
2) Dept of Communication Sciences and Disorders, College of Behavioral & Community Sciences, University of South Florida  
3) Global Center of Hearing and Speech Research, University of South Florida |
| Abstract #29 | **Poster** | **Title:** Listening effort discounting  
**Authors:** Drew J. McLaughlin*  
**Affiliations:** Department of Psychological & Brain Sciences, Washington University in St. Louis |
| Abstract #30 | **Poster** | **Title:** Signal processing to ease of listening effort for persons with profound hearing loss  
**Authors:** Asa C Skagerstrand*  
**Affiliations:** University of Maryland, College Park |
### Abstract #31
**Title:** Age effects on timing perception of altered sentence rhythms  
**Authors:** Dylan V. Pearson¹*, Yi Shen¹, J. Devin McAuley², Gary Kidd¹  
**Affiliations:**  
1) Speech and Hearing Sciences, Indiana University – Bloomington,  
2) Department of Psychology, Michigan State University

### Abstract #32
**Title:** Does increasing vocal loudness affect hearing perception in persons with Parkinson’s Disease  
**Authors:** *#Caroline Menezes and Lori Pakulski  
**Affiliations:** University of Toledo

### Abstract #33
**Title:** 17β-estradiol Blocks Stress-Induced Apoptosis through Autophagy Enhancement for Cochlear Hair Cells  
**Authors:** #Bo Ding¹, 3, XiaoXia Zhu², 3, Mckenzie Watson³, * D. Frisina¹, 2, 3  
**Affiliations:**  
1) Dept of Communication Sciences and Disorders, College of Behavioral & Community Sciences, University of South Florida  
2) Department of Medical Engineering, College of Engineering and Morsani College of Medicine, University of South Florida  
3) Global Center of Hearing and Speech Research, University of South Florida

### Abstract #34
**Title:** Individualized estimation of spectral weighting during sentence recognition in noise among normal-hearing and hearing-impaired listeners  
**Authors:** Yi Shen¹*, Donghyeon Yun¹, and Yi Liu¹  
**Affiliations:**  
1) Dept. of Speech and Hearing Sciences Indiana University, Bloomington, Indiana

### Abstract #35
**Title:** Beam Steering for A Speaker Tracking-Based First-Order Differential Microphone Array  
**Authors:** Ali Sarafnia, M.O. Ahmad, M.N.S. Swamy  
**Affiliations:** Concordia University

### Abstract #38
**Title:** The relationship between the perception of spectral information and the effects of dynamic pitch on older individuals’ speech recognition in noise  
**Authors:** Jing Shen  
**Affiliations:** Western Michigan University

### Abstract #39
**Title:** The effect of aging on the electrically evoked compound action potential  
**Authors:** Bruna S. Mussoi¹* & Carolyn J. Brown²  
**Affiliations:**  
1) Kent State University, Department of Speech Pathology and Audiology, Kent, Ohio, USA  
2) University of Iowa, Department of Communication Sciences and Disorders / Department of Otolaryngology – Head and Neck Surgery, Iowa City, Iowa, USA
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| Abstract #41 | **Title:** Peripheral versus central age-related temporal processing deficits: Insights from cochlear-implant users  
**Authors:** Matthew J. Goupell, Maureen J. Shader, Samira Anderson, Sandra Gordon-Salant  
**Affiliations:** University of Maryland, College Park |
|---|---|
| Abstract #42 | **Title:** Can the diffuseness of sound sources alter speech perception in young and older adults?  
**Authors:** #*Meital Avivi-Reich1, #Rupinder K. Sran2, and Bruce A. Schneider2  
**Affiliations:** 1) Communication Arts, Sciences, and Disorders, Brooklyn College of City University of New York (CUNY).  
2) Psychology Department, University of Toronto Mississauga |
| Abstract #43 | **Title:** The cardiac pre-ejection period as a measure of listening effort during a speech-in-noise task  
**Authors:** Bethany J. Plain*#a,c, Michael Richterb, Adriana A. Zekvelda,d,e, Thomas Lunnerd,f, Tanveer Bhuiyanc, Sophia E. Kramer a  
**Affiliations:**  
a) Amsterdam UMC, Vrije Universiteit Amsterdam, Otolaryngology Head and Neck Surgery, Ear & Hearing, Amsterdam Public Health Research Institute, De Boelelaan 1117, Amsterdam, the Netherlands  
b) School of Natural Sciences and Psychology, Liverpool John Moores University, Liverpool, United Kingdom  
c) Eriksholm Research Centre, Snekkersten, Denmark  
d) Department of Behavioural Sciences and Learning, Linköping University, Linköping, Sweden  
e) Linnaeus Centre HEAD, The Swedish Institute for Disability Research, Linköping and Orebro Universities, Linköping, Sweden  
f) Department of Health Technology, Technical University of Denmark, Denmark |
| Abstract #44 | **Title:** Age-related deficits in Spanish-accented speech understanding for cochlear-implant listeners are partially overcome with audiovisual presentation  
**Authors:** Emily Waddington, Brittany Jaekel, Anna Tinnemore, Sandra Gordon-Salant, and Matthew J. Goupell  
**Affiliations:** University of Maryland, College Park |
| Abstract #45 | **Title:** Age-related changes in the Auditory Steady-State Response Measured across the Lifespan of CBA/CaJ Mice  
**Authors:** #Kendra E. Stebbins1,3, and *Joseph P. Walton 1,2,3  
**Affiliations:** 1) Department of Communication Sciences and Disorders, University of South Florida  
2) Department of Chemical and Biomedical Engineering, University of South Florida |
**POSTER ABSTRACTS**

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<th>Abstract #46</th>
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<th>Suboptimal hearing aid gain negatively impacts perceptual and cognitive processing of speech</th>
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<td>Poster</td>
<td><strong>Authors:</strong></td>
<td>Elaine Hoi Ning Ng1,2 *#, Josefine Juul Jensen1, Michael Schulte3, and Dorothea Wendt4,5</td>
</tr>
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</table>
|             | **Affiliations:** | 1) Oticon A/S, Smørum, Denmark.  
2) Department of Behavioural Sciences and Learning, Linnaeus Centre HEAD, Swedish Institute for Disability Research, Linköping University, Linköping, Sweden.  
3) Hörzentrum Oldenburg GmbH, Germany.  
4) Eriksholm Research Centre, Oticon A/S, Snekkersten, Denmark.  
5) Hearing Systems, Department of Health Technology, Technical University of Denmark, Denmark. |

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<th>Abstract #48</th>
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<td></td>
<td><strong>Affiliations:</strong></td>
<td>Hearing Research Program, Department of Otolaryngology – Head and Neck Surgery, Medical University of South Carolina, Charleston, SC, USA; Department of Psychology, College of Charleston, Charleston, SC, USA</td>
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<th>Abstract #50</th>
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<td>Poster</td>
<td><strong>Authors and Affiliations:</strong></td>
<td>Nikolai Bisgaard * #, GN Hearing as, Copenhagen, Denmark</td>
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<tr>
<th>Abstract #51</th>
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| Poster      | **Authors and Affiliations:** | Nikolai Bisgaard * #, GN Hearing as, Copenhagen, Denmark  
Stefan Ruf, Anovum, Zurich, Switzerland |

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<th>Abstract #54</th>
<th>Title:</th>
<th>The effect of aging on Mandarin speech recognition in multi-talker babble</th>
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<tr>
<td>Poster</td>
<td><strong>Authors:</strong></td>
<td>Can Xua*#, Hongwei Dingb, Yuxia Wangb, and Chang Liua</td>
</tr>
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</table>
|             | **Affiliations:** | a) Department of Communication Sciences and Disorders, The University of Texas at Austin  
b) School of Foreign Languages, Shanghai Jiao Tong University, Shanghai |

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<tr>
<th>Abstract #56</th>
<th>Title:</th>
<th>Speech-based individualized signal processing strategy (ISPS) for hearing aid fitting.</th>
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<tr>
<td>Poster</td>
<td><strong>Authors:</strong></td>
<td>Anusha Yellamsetty*#, David A. Eddins*</td>
</tr>
</tbody>
</table>
|             | **Affiliations:** | Dept. of Communication Sciences and Disorders, University of South Florida, Tampa, FL, USA  
Global Center for Hearing & Speech Research, University of South Florida, Tampa, FL, USA |
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<tr>
<th>Abstract #</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>57</td>
<td>Interactions between Speech Recognition in Noise, Mobility and Risk of Falling in Older Adults</td>
<td>Putter-Katz H*, Horev N, Bichman A, BEEN E</td>
<td>Department of Communication Sciences and Disorders, Faculty of Health Professions, Ono Academic College, Kiriya Ono, Israel</td>
</tr>
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</table>
Department of Behavioural Sciences and Learning, Linköping University, Sweden                                                                                            |
| 61        | Exploring the Biological Mechanisms of Transforming Growth Factor (TGF) for Inflammation and the Ageing Processes of the Inner Ear | Mark A. Bauer#, Parveen Bazard, Bo Ding, Xiaoxia Zhu, Robert D. Frisina*                                  | Dept of Communication Sciences and Disorders, College of Behavioral & Community Sciences, University of South Florida  
Department of Medical Engineering, College of Engineering and Morsani College of Medicine, University of South Florida  
Global Center of Hearing and Speech Research, University of South Florida                                                                 |
| 62        | Aldosterone Upregulates NKCC1 Membrane Proteins and Voltage-Gated Potassium Currents as a Modulator | Parveen Bazard#, Bo Ding, Harish K. Chittam, Xiaoxia Zhu, Venkat R. Bhethanabotla, Joseph P. Walton, Robert D. Frisina* | Department of Medical Engineering, College of Engineering and Morsani College of Medicine, University of South Florida  
Global Center of Hearing and Speech Research, University of South Florida  
College of Engineering, University of South Florida                                                                                                                |
| 64        | The Role of TNFα in Aging Processes of Mouse Inner Ear Cells          | Cody D. Spence#, Bo Ding, XiaoXia Zhu, Mark A. Bauer2,3; Robert D. Frisina1,2,3*                            | Dept of Communication Sciences and Disorders, College of Behavioral & Community Sciences, University of South Florida  
Department of Medical Engineering, College of Engineering and Morsani College of Medicine, University of South Florida  
Department of Chemical & Biological Engineering, College of Engineering, University of South Florida  
Global Center of Hearing and Speech Research, University of South Florida                                                                                   |
| Abstract #66 | Title: Temporal Rate Discrimination Training Effects on Perception and Neural Encoding in Younger and Older Listeners.  
Authors: Samira Anderson*#, Lindsay A. DeVries, Matthew J. Goupell, Ed Smith, Sandra Gordon-Salant  
Affiliations: University of Maryland, College Park, MD, 20742 |