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<tr>
<th>Invited Speaker</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
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<tr>
<td>Cognitive Hearing Science (CHS): Three memory systems, two approaches, and one model</td>
<td>Jerker Rönnberg*, E. Holmer &amp; M. Rudner</td>
<td>Linköping University, Sweden</td>
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<td>Alterations in outer hair cell and auditory neuron in aged mouse models with a hearing phenotype akin to humans</td>
<td>Ebenezer N. Yamoah</td>
<td>University of Nevada, Reno</td>
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<td>Cellular mechanism alterations in the aging cochlea and implications for future therapies</td>
<td>Hainan Lang</td>
<td>Medical University of South Carolina</td>
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<td>Plasticity of the older ear and brain: Neurobiological mechanisms and neuroscientific underpinnings of age-related hearing and speech communication problems</td>
<td>Dwayne Simmons</td>
<td>Baylor University</td>
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<td>Age-related changes of temporal coding representations in the peripheral and central auditory systems</td>
<td>Ed Bartlett</td>
<td>Purdue University</td>
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<td>Cognitive contributions to understanding acoustically challenging speech</td>
<td>Jonathan Peelle</td>
<td>Washington University in St. Louis</td>
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</table>
| The peripheral hearing and central auditory processing skills of individuals with subjective cognitive decline | Dona MP Jayakody1,2,#, Holly K. Menegola1, Jessica M Yiannou1,3, Jack Goodman-Simpson1, Peter L Friedland4, Ralph N Martins5,6, Hamid R Sohrabi5,6. | 1) Ear Science Institute of Australia  
2) Ear Science Centre, School of Surgery, University of Western Australia  
3) School of Human Sciences, University of Western Australia  
4) Dept. of Otolaryngology Head Neck Skull Base Surgery, Sir Charles Gairdner Hospital  
5) School of Medical and Health Sciences, Edith Cowan University  
6) Dept. of Biomedical Sciences, Macquarie University |
| Hearing and vision impairment and mental well-being in older age | Piers Dawes | Macquarie University, Australia; University of Manchester, UK |
| Focus is on communication, cognitive and sensory integration in aging: investigates the premise that reductions in the quality of the sensory | | |
input will result in less efficient cognitive functioning, specifically when communicating in adverse environments with background noise

**Authors:** Boaz Ben-David  
**Affiliations:** Baruch Ivcher School of Psychology, IDC Herziya, Israel

| Invited Speaker | Title: | The interaction of memory and active vision in aging  
Authors: | Jennifer D. Ryan  
Affiliations: | Rotman Research Institute at Baycrest; University of Toronto

| Invited Speaker | Title: | Practice listening and understanding speech (PLUS): Two novel auditory-cognitive training programs for hearing-impaired listeners  
Authors: | Antje Heinrich1*#, Helen Henshaw2,3, and Mel Ferguson2,3,4  
Affiliations: | 1) Manchester Centre for Audiology and Deafness (ManCAD), University of Manchester, UK  
2) National Institute for Health Research (NIHR) Nottingham Biomedical Research Centre, Nottingham, UK  
3) School of Medicine, University of Nottingham, UK  
4) National Acoustics Laboratory, Australia

| Invited Speaker | Title: | Ototoxicity & chemotherapy: Genetics and phenotypic co-morbidity analyses in adult cancer survivors  
Authors: | Lois Travis*#, Paul Dinh, Matthew R. Trendowski, M. Eileen Dolan, Robert D. Frisina  
Affiliations: | Indiana University Melvin and Bren Simon Cancer Center

| Invited Speaker | Title: | Health and social outcomes associated with age-related hearing loss  
Authors: | Bamini Gopinath1, C.M. McMahon2, P. Mitchell1  
Affiliations: | 1) Centre for Vision Research, University of Sydney  
2) Australian Hearing Hub, Macquarie University

| Invited Speaker | Title: | Automated acoustic and lexical-semantic analysis of digitized speech samples in aging and neurodegenerative disease  
Authors: | Murray Grossman*#, N. Nevler, S. Cho, M. Liberman  
Affiliations: | University of Pennsylvania

| Invited Speaker | Title: | Sensory function, cognition, and brain anatomy in older adults with or at risk for dementia  
Authors: | Natalie Phillips1,2,3*, Faisal Al-Yawer1, Natalie Giroud1, Sana Rehan1, Paul Mick4, M. Kathleen Pichora-Fuller5, Walter Wittich6  
Affiliations: | 1) Dept. of Psychology, Concordia University, Canada  
2) Centre for Research on Brain, Language, and Music, Montreal, Canada  
3) Lady Davis Institute for Medical Research, Jewish General Hospital, Canada  
4) Dept of Surgery, University of Saskatchewan  
5) Dept of Psychology, University of Toronto  
6) School of Optometry, University of Montreal

| Invited Speaker | Title: | The interactions between and combined effects of age-related hearing loss and dementia  
Authors: | Sara K. Mamo  
Affiliations: | University of Massachusetts Amherst
| Abstract #16 | **Title:** Relations between syllable constituent identification and sentence perception for 212 hearing-aid users with age-related hearing loss  
**Authors:** James D. Miller*# and Charles S. Watson  
**Affiliations:** Communication Disorders Technology, Inc. |
|---|---|
| Abstract #19 | **Title:** Individual differences in corpus callosum structure mediate age-group deficits in auditory spatial processing  
**Authors:** James W. Dias*#, Carolyn M. McClaskey, & Kelly C. Harris  
**Affiliations:** Medical University of South Carolina |
| Abstract #21 | **Title:** Efficacy of audiological rehabilitation: a randomized controlled trial.  
**Authors:** Magits S.1*, De Meyere L.1, Boon E.2, Dierckx A.3, Verhaert N.1,2, Frantart T.1, Wouters J.1, van Wieringen A.1  
**Affiliations:**  
1) Department of Neurosciences, Res. Group Experimental ORL, KU Leuven, Leuven, Belgium  
2) Department of Otorhinolaryngology, Head and Neck Surgery, University Hospitals Leuven, Leuven, Belgium |
| Abstract #23 | **Title:** When individual differences are more important than age: Subcortical envelope encoding of sustained amplitude modulation predicts speech-in-noise performance in difficult listening conditions  
**Authors:** Carolyn M. McClaskey*, James W. Dias, Kelly C. Harris  
**Affiliations:** Department of Otolaryngology – Head and Neck Surgery, Medical University of South Carolina |
| Abstract #25 | **Title:** Poor talker discrimination ability in adult cochlear implant users: the potential role of aging  
**Authors:** Terrin N. Tamati* & Aaron C. Moberly  
**Affiliations:** The Ohio State University |
| Abstract #27 | **Title:** Effects of aging and cognitive effort on talker familiarity benefit in a complex listening environment  
**Authors:** Julie I. Cohen1*, Douglas S. Brungart2, and Sandra Gordon-Salant1  
**Affiliations:**  
1) University of Maryland, College Park  
2) Walter Reed National Military Medical Center, Bethesda, MD |
| Abstract #40 | **Title:** Contralateral speech interference in cochlear-implant users worsens with age: Neural plasticity or attention?  
**Authors:** Matthew J. Goupell1 and Joshua G. W. Bernstein2  
**Affiliations:**  
1) University of Maryland, College Park  
2) Walter Reed National Military Medical Center, Bethesda |
| Abstract #47 | **Title:** Perceptual Decision-Making during Speech Recognition in Noise by Middle-Aged and Older Adults  
**Authors:** Kenneth I. Vaden Jr.*#1, Susan Teubner-Rhodes1,2, Jayne B. Ahlstrom1, Judy R. Dubno1, Mark A. Eckert1  
**Affiliations:**  
1) Department of Otolaryngology – Head and Neck Surgery, Medical University of South Carolina  
2) Department of Psychology, Auburn University |
| Abstract #49 | **Title:** Hearing aids provide clear benefit for elderly users – results from a large-scale study  
**Authors and Affiliations:** |
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<th>Abstract #</th>
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<th>Authors and Affiliations</th>
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<td>#52</td>
<td>Title: Associations Among Sensory Function, Cognitive Processing and Daily Function: A Longitudinal Study of Older Adults</td>
<td>Larry E. Humes1*# &amp; Thomas A. Busey2&lt;br&gt;1) Department of Speech &amp; Hearing Sciences&lt;br&gt;2) Department of Psychological &amp; Brain Sciences&lt;br&gt;Indiana University</td>
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<td>#53</td>
<td>Title: The Interface of Sensory, Motor and Cognitive Aging: Baseline Data from the CLSA</td>
<td>Paul Mick, University of Saskatchewan&lt;br&gt;*K. Kathleen Pichora-Fuller, University of Toronto and Simon Fraser University&lt;br&gt;Jennifer Campos, University Health Network, Toronto&lt;br&gt;Walter Wittich, University of Montreal&lt;br&gt;Natalie Phillips, Concordia University</td>
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<td>#55</td>
<td>Title: Reliability of audiometric assessment in adults with cognitive impairment</td>
<td>McClannahan, K.*#1, Chiu, Y. 2, Sommers, M. 1, Peelle, J. E., 3&lt;br&gt;1) Department of Psychological and Brain Sciences, Washington University in St. Louis&lt;br&gt;2) Communication Sciences and Disorders, St. Louis University&lt;br&gt;3) Department of Otolaryngology, Washington University Medical School</td>
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<tr>
<td>#56</td>
<td>Title: Speech-based individualized signal processing strategy (ISPS) for hearing aid fitting</td>
<td>#Anusha Yellamsetty*, David A. Eddins*&lt;br&gt;Department of Communication Sciences and Disorders, University of South Florida</td>
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<td>#58</td>
<td>Title: Therapeutic intervention against excitotoxicity &amp; preservation of cochlear hair cells after noise-trauma induced hearing loss</td>
<td>Reza Amanipour #, Xiaoxia Zhu, Guillaume Duvey, Sylvain Celanire, Joseph P. Walton, Robert D. Frisina&lt;br&gt;1) Dept of Communication Sciences and Disorders, College of Behavioral &amp; Community Sciences, University of South Florida&lt;br&gt;2) Department of Medical Engineering, College of Engineering and Morsani College of Medicine, University of South Florida</td>
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<td>#60</td>
<td>Short-term Acoustic Deprivation and Enhancement lead to Central Gain Modulation in the Brainstem and Cortex</td>
<td>Peter J. Hutchison*, Hannah Maeda, David A. Eddins, Ann C. Eddins</td>
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<td>#65</td>
<td>Gene Expression and Auditory Physiology Analyses to Determine the Roles of Connexin 30 and 43 in Age-Related Hearing Loss</td>
<td>Jennifer Pineros1,3, Xiaoxia Zhu1,3, Bo Ding2,3, Parveen Bazard1,3, Robert D. Frisina1,3*</td>
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<td>#1</td>
<td>Effects of listener age, talker accent, and semantic context on lexical access</td>
<td>Rebecca E. Bieber*, Christian Brodbeck, Vera Yevsukov, and Samira Anderson</td>
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<td>#2</td>
<td>Benefits of a time-expansion protocol for recognition of non-native speech by older listeners</td>
<td>Anna R. Tinnemore*, Rebecca E. Bieber, Sandra Gordon-Salant</td>
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<td>#3</td>
<td>Effects of noise type on speech quality ratings in older adults with hearing loss</td>
<td>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</td>
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<td>#4</td>
<td>Comparing performance on a speech-in-noise task among personal sound amplification products</td>
<td>Lincoln Dunn*, Karen S. Helfer, Sara Mamo, Michael Clauss</td>
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| 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:**  
1) Speech Perception, Cognition, and Hearing Laboratory, University of Kansas, Lawrence, Kansas  
2) Speech Research Laboratory, Department of Psychological and Brain Sciences, Indiana University, Bloomington, Indiana  
3) Audiological Research Laboratory, Department of Speech and Hearing Sciences, Indiana University, Bloomington, Indiana |
| 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) |
| 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 Marsjā 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 |
| Abstract #13 | **Title:** Examining how Cognitive Functioning, Aging, and Hearing Loss, Affect Speech-in-Noise Performance  
**Authors:** Erik Marsjā*#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 |
| 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 |
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| 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 |
| 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  
**Affiliations:** University of South Florida, Department of Communication Sciences & Disorders |
| Abstract #18 | **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 | **Title:** Processing temporal cues for word identification in adult cochlear-implant users: Effects of aging and context  
**Authors:** Zilong Xie*#, Samira Anderson, Sandra Gordon-Salant, and Matthew J. Goupell  
**Affiliations:** Department of Hearing and Speech Sciences, University of Maryland, College Park |
| Abstract #22 | **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 #24 | **Title:** Extraction of indexical and linguistic information as a function of duration in the older population  
**Authors:** Smith, D. R. R.*# and Guerrini, C.  
**Affiliations:** Department of Psychology, University of Hull |
| Abstract #26 | **Title:** The combined predictive value of multiple cognitive abilities for speech-in-noise perception by older adults  
**Authors:** Antje Heinrich1,3*# and Sarah Knight2,3  
**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 | **Title:** Inhibition of Estrogen Modulates Autophagic Processes and Auditory Function in Aging Female CBA/CaJ Mice  
**Authors:** #XiaoXia Zhu1, 3, Bo Ding2, 3, Mckenzie Watson3, Tanika T. Williamson1, 3, *Robert D. Frisina1, 2, 3  
**Affiliations:** |
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<td>#29</td>
<td>Listening effort discounting</td>
<td>Drew J. McLaughlin*#</td>
<td>Department of Psychological &amp; Brain Sciences, Washington University in St. Louis</td>
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<td>#30</td>
<td>Signal processing to ease of listening effort for persons with profound hearing loss</td>
<td>Asa C Skagerstrand*#</td>
<td>Audiological Research Centre, Örebro University hospital, Sweden/SIDR (Swedish Institute of Disability Research)</td>
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<td>#31</td>
<td>Age effects on timing perception of altered sentence rhythms</td>
<td>Dylan V. Pearson1*#, Yi Shen1, J. Devin McAuley2, Gary Kidd1</td>
<td>1) Speech and Hearing Sciences, Indiana University – Bloomington, 2) Department of Psychology, Michigan State University</td>
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<td>#32</td>
<td>Does increasing vocal loudness affect hearing perception in persons with Parkinson’s Disease</td>
<td>*#Caroline Menezes and Lori Pakulski</td>
<td>University of Toledo</td>
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<td>#33</td>
<td>17β-estradiol Blocks Stress-Induced Apoptosis through Autophagy Enhancement for Cochlear Hair Cells</td>
<td>#Bo Ding1, 3 , XiaoXia Zhu2, 3, Mckenzie Watson3, * D. Frisina1, 2, 3</td>
<td>1) Dept of Communication Sciences and Disorders, College of Behavioral &amp; 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</td>
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<td>#34</td>
<td>Individualized estimation of spectral weighting during sentence recognition in noise among normal-hearing and hearing-impaired listeners</td>
<td>Yi Shen1*#, Donghyeon Yun1, and Yi Liu1</td>
<td>1) Dept of Speech and Hearing Sciences Indiana University, Bloomington, Indiana</td>
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<td>#35</td>
<td>Beam Steering for A Speaker Tracking-Based First-Order Differential Microphone Array</td>
<td>Ali Sarafnia, M.O. Ahmad, M.N.S. Swamy</td>
<td>Concordia University</td>
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<td>#38</td>
<td>The relationship between the perception of spectral information and the effects of dynamic pitch on older individuals’ speech recognition in noise</td>
<td>Jing Shen</td>
<td>Western Michigan University</td>
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| Abstract #39 | **Title:** The effect of aging on the electrically evoked compound action potential  
**Authors:** Bruna S. Mussoi*# & 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  

| 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 Lunnerde,f, Tanveer Bhuiyanc, Sophia E. Kramerac  
**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
| Abstract #46 | **Title:** Suboptimal hearing aid gain negatively impacts perceptual and cognitive processing of speech  
**Authors:** Elaine Hoi Ning Ng1,2 *#, Josefine Juul Jensen1, Michael Schulte3, and Dorothea Wendt4,5  
**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. |
| Abstract #48 | **Title:** Lower General Cognitive Function is Related to Elevated Low-Frequency Thresholds and Poorer Dichotic Listening in Older Adults  
**Authors:** Jacqueline M. Eberhard#, Lois J. Matthews, Kenneth I. Vaden Jr., Judy R. Dubno, Mark A. Eckert*  
**Affiliations:** 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 |
| Abstract #50 | **Title:** Modelling hearing aid coverage across the world  
**Authors and Affiliations:** Nikolai Bisgaard * #, GN Hearing as, Copenhagen, Denmark |
| Abstract #51 | **Title:** Trends in prevalence of hearing loss and benefits of hearing aid use as expressed in EurTrak surveys from 2009 to 2018  
**Authors and Affiliations:** Nikolai Bisgaard * #, GN Hearing as, Copenhagen, Denmark; Stefan Ruf, Anovum, Zurich, Switzerland |
| Abstract #54 | **Title:** The effect of aging on Mandarin speech recognition in multi-talker babble  
**Authors:** Can Xua*#, Hongwei Dingb, Yuxia Wangb, and Chang Liua  
**Affiliations:**  
 a) Department of Communication Sciences and Disorders, The University of Texas at Austin  
 b) School of Foreign Languages, Shanghai Jiao Tong University, Shanghai |
| Abstract #57 | **Title:** Interactions between Speech Recognition in Noise, Mobility and Risk of Falling in Older Adults  
**Authors:** Putter-Katz H*, Horev N, Bichman A, Been E  
**Affiliations:** Department of Communication Sciences and Disorders, Faculty of Health Professions, Ono Academic College, Kiryat Ono, Israel |
| Abstract #59 | Title: Predictors for performance in HINT: Objective and subjective outcome measures  
Authors: Victoria Stenbäck*, Erik Marsja, Henrik Danielsson, Jerker Rönnberg  
Affiliations:  
1) Disability Research Division, Linköping, Sweden.  
2) Department of Behavioural Sciences and Learning, Linköping University, Sweden |
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| Abstract #61 | Title: Exploring the Biological Mechanisms of Transforming Growth Factor (TGF) for Inflammation and the Ageing Processes of the Inner Ear  
Authors: Mark A. Bauer*, Parveen Bazard, Bo Ding, Xiaoxia Zhu, Robert D. Frisina  
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 #62 | Title: Aldosterone Upregulates NKCC1 Membrane Proteins and Voltage-Gated Potassium Currents as a Modulator  
Authors: Parveen Bazard*, Bo Ding, Harish K. Chittam, Xiaoxia Zhu, Venkat R. Bhethanabotla, Joseph P. Walton, Robert D. Frisina  
Affiliations:  
1) Department of Medical Engineering, College of Engineering and Morsani College of Medicine, University of South Florida  
2) College of Engineering, University of South Florida  
3) Global Center of Hearing and Speech Research, University of South Florida |
| Abstract #64 | Title: The Role of TNFα in Aging Processes of Mouse Inner Ear Cells  
Authors: Cody D. Spence, Bo Ding, Xiaoxia Zhu, Mark A. Bauer, Robert D. Frisina  
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) Department of Chemical & Biological Engineering, College of Engineering, University of South Florida  
Global Center of Hearing and Speech Research, University of South Florida |