

AMERICAN NEUROTOLOGY SOCIETY

54th Annual Meeting

SCIENTIFIC PROGRAM

May 3-4, 2019

JW Marriott Austin

Austin, TX

FRIDAY, MAY 3, 2019

1:00 BUSINESS MEETING (*New member introduction*)
(*Members Only*)

1:30 SCIENTIFIC PROGRAM
(*Open to registered Members and Non-members – Badge required for admittance*)

1:30 WELCOME & OPENING REMARKS BY THE PRESIDENT
Barry E. Hirsch, MD

PRESIDENTIAL CITATIONS

Eugene N. Myers, MD

Jonas T. Johnson, MD

Donald B. Kamerer, MD

1:42 WILLIAM F. HOUSE MEMORIAL LECTURE
Cortical Predictors of Language: A Top-down Exploration of Pediatric Cochlear Implantation
Nancy M. Young, MD
Lillian S. Wells Professor of Pediatric Otolaryngology
Northwestern University Feinberg School of Medicine
Head, Section of Otology & Neurotology, Division of Otolaryngology
Ann & Robert H. Lurie Children's Hospital of Chicago

2:07 INTRODUCTION - OUTCOMES IN COCHLEAR IMPLANTATION
Brandon Isaacson, MD

2:09 Five Years of Electric-Acoustic Stimulation (EAS) Listening Experience: Hearing Preservation and Benefits of Acoustic Representation of the Fundamental Frequency
Elizabeth Perkins, MD
Margaret Dillon, AuD
Kevin Brown, MD, PhD

2:16 General Health Quality of Life Instruments Underestimate the Impact of Bilateral Cochlear Implantation
Theodore R. McRackan, MD, MSCR
Joshua E. Fabie, BS
Prashant N. Bhenswala, MD
Shaun A. Nguyen, MD
Judy R. Dubno, PhD

2:23 Slim Perimodiolar Arrays are as Effective as Slim Lateral Wall Arrays for Functional Hearing Preservation after Cochlear Implantation
Erika A. Woodson, MD
Rebecca Nelson, MD
Thomas J. Haberkamp, MD
Sarah Sydlowski, AuD, PhD

- 2:30 Predicting Changes in Tinnitus after Unilateral Cochlear Implantation in Adults**
Peter R. Dixon, MD
David Shipp, MA
Kari Smilsky, MCLSc
Vincent Y. Lin, MD
Trung Le, MD, PhD
Joseph M. Chen, MD
- 2:37 Cognitive Functions in Adults Receiving Cochlear Implants: Predictors of Speech Recognition Outcomes and Changes after Implantation**
Aaron C. Moberly, MD
Michael S. Harris, MD
David B. Pisoni, PhD
William G. Kronenberger, PhD
Christin Ray, PhD, CCC-SLP
- 2:44 DISCUSSION**
- 2:47 BREAK WITH EXHIBITORS**
- 3:15 INTRODUCTION - VESTIBULAR SCHWANNOMA - IN VIVO AND IN VITRO**
Mia E. Miller, MD
- 3:17 Preclinical Evaluation of Compounds Targeting Schwannoma in an NF2 Mouse Model**
Charles W. Yates, MD, MS
Waylan Bessler, BS
Li Jiang, MD
Abbie Smith, BS
D. Wade Clapp, MD
- 3:24 Vestibular Schwannoma Tumor Size is Correlated with Acute Vestibular Symptoms After Gamma Knife Therapy**
Daniel Y. Lee, BS
David K. Lerner, MD
James G. Naples,
MD Jason A. Brant,
MD
Douglas C. Bigelow, MD
John Y.K. Lee, MD, MSCE
Michelle Alonso-Basanta, MD, PhD
Michael J. Ruckenstein, MD, MSc
- 3:31 NEUROTOLOGY FELLOW AWARD**
What Genes Can Tell: A Closer Look at Vestibular Schwannoma
Ksenia A. Aaron, MD
Zarko Manojlovic, PhD
Sharon Chang, BS
Eric Kwok, BS
Nathan Tu, MD, MPH
Kyle Hurth, MD, PhD
Rick A. Friedman, MD, PhD

3:38 Effects of Single-Fraction Radiation on Merlin-Deficient and Normal Schwann Cells in Vitro
Erin R. Cohen, MD
Brian Marples, PhD
Nagy Elsayyad, MD
Michael Ivan, MD
Cristina Fernandez-Valle, PhD
Fred F. Telischi, MD
Christine T. Dinh, MD

3:45 DISCUSSION/INTRODUCTION

3:50 ANS RESEARCH GRANT
Verbal Memory as Outcome Predictor in Adults Receiving Cochlear Implants
Michael S. Harris, MD
Medical College of Wisconsin
ANS Research Grant recipient 2017-18

4:00 INTRODUCTION

4:02 PANEL
Meniere's Disease: What Do We Know and What Don't We Know?
Anil Lalwani, MD, Moderator
Greg J. Basura, MD, PhD
Akira Ishiyama, MD
Michael J. Ruckenstein, MD, MSc
Alec N. Salt, PhD
Hinrich Staecker, MD, PhD
Andrea Vambutas, MD

5:00 ANNOUNCEMENT OF ANS & AOS POSTER WINNERS
Craig A. Buchman, MD - ANS Education Director
Marlan R. Hansen, MD - AOS Education Director

5:05 CLOSING REMARKS/ADJOURNMENT

SATURDAY, MAY 4, 2019

7:00 BUSINESS MEETING (Committee Reports)
(Members Only)

7:30 SCIENTIFIC PROGRAM
(Open to registered Members and Non-members – Badge required for admittance)

7:30 WELCOME & OPENING REMARKS BY THE PRESIDENT
Barry E. Hirsch, MD

7:33 INTRODUCTION - INNER EAR PHYSIOLOGY
Andrew A. McCall, MD

**7:35 The Role of The Spiral Ligament in Sensorineural Hearing Loss in Humans:
A Temporal Bone Study**
Karen B. Teufert, MD
Fred H. Linthicum Jr., MD

- 7:42 Anatomical and Functional Consequences of Microneedle Perforation of Round Window Membrane**
Michelle Yu, BS
Daniel N. Arteaga, BA
Aykut Aksit, MS
Harry Chiang, BA
Jeffrey W. Kysar, PhD
Anil K. Lalwani, MD
- 7:49 TRAINEE AWARD**
Neurotrophin Signaling in Various Degrees of Hearing Loss using MicroRNA Perilymph Profiling
Matthew Shew, MD
Helena Wichova, MD
Jacob New, PhD
Athanasia Warnecke, MD
Thomas Lenarz, MD, PhD
Hinrich Staecker, MD, PhD
- 7:56 NEUROTOLOGY FELLOW AWARD**
Intratympanic Diltiazem-Chitosan Hydrogel as a Novel Otoprotectant Against Cisplatin-Induced Ototoxicity in a Mouse Model
James G. Naples, MD
Michael J. Ruckenstein, MD
Jarnail Singh, PhD
Brandon C. Cox, PhD
Daqing Li, MD
- 8:03 Neuroprotection of NIR Light in Ananimal Model of Cochlear Implantation**
Arne Ernst, MD, PhD
Dietmar Basta, PhD
- 8:10 DISCUSSION/INTRODUCTION**
- 8:15 ANS/AAO-HNSF HERBERT SILVERSTEIN RESEARCH AWARD**
Novel Neurotrophin-Bisphosphonate Conjugates to Promote Cochlear Synaptogenesis
David H. Jung, MD, PhD
Massachusetts Eye and Ear Infirmary/Harvard Medical School
Silverstein Grant recipient 2016-18
- 8:25 INTRODUCTION - COI, ACTIVE BONE CONDUCTION, COCHLEAR IMPLANT INTEVENTIONS**
Andrea Vambutas, MD
- 8:27 Evaluating the Industry Relationships of Physicians Presenting at the American Neurotology Society Spring Meetings**
Milap H. Desai, BS
Darshak M. Vekaria BS
Brian J. McKinnon, MD, MBA, MPH
- 8:34 Active Bone Conduction Implants Improve Patient Reported Outcomes Measures – A 12-Month Prospective Study**
Matthew G. Crowson, MD
Euna A. Hwang, MD

Julija Adamonis, M.Sc. Reg. CASLPO
Trung Le, MD, PhD
Vincent Lin, MD
Joseph Chen, MD

8:41 Subclinical Age-Related Hearing Loss is Associated with Cognitive Impairment

Justin S. Golub, MD, MS
Adam M. Brickman, PhD
Adam J. Ciarleglio, PhD
Nicole Schupf, PhD
José A. Luchsinger, MD, MPH

8:48 Impact of Auditory-Motor Musical Training on Melodic Pattern Recognition in Cochlear Implant Users

Divya A. Chari, MD
Anirrudh Patel, PhD
Karen C. Barrett, PhD
Lauren Jacobs, BS
Patpong Jiradejvong, MS
Charles J. Limb, MD

8:55 The Use of Artificial Intelligence in Cochlear Implant Programming

Susan B. Waltzman, PhD
David C. Kelsall, MD

9:02 Intracochlear Pressure Transients During Cochlear Implant Electrode Insertion: Effect of Micro-mechanical Control on Limiting Pressure Trauma

Renee M. Banakis Hartl, MD, AuD
Christopher Kaufmann, MD, MS
Marlan R. Hansen, MD
Daniel J. Tollin, PhD

9:09 Electrocochleographic Patterns in Patients with Sudden Sensorineural Hearing Loss Undergoing Cochlear Implantation

Michael S. Harris, MD
William J. Riggs, AuD
Kristin Kozloski, AuD
Oliver F. Adunka, MD

9:16 DISCUSSION

**9:19 WILLIAM E. HITSELBERGER MEMORIAL LECTURE
Evolution of the Middle Fossa Access for Skull Base Disorders**

Bruce J. Gantz, MD
Head, Department of Otolaryngology - Head and Neck Surgery
Brian F. McCabe Distinguished Chair in Otolaryngology - Head and Neck Surgery
Professor of Otolaryngology & Neurosurgery
University of Iowa

9:45 BREAK WITH EXHIBITORS

10:15 INTRODUCTION - FACIAL NERVE, VESTIBULAR SCHWANOMMA INVESTIGATIONS

Ana H. Kim, MD

10:17 Transgenic Mouse Model for Facial Nerve Synkinesis

Mostafa Ahmed, MD

Alex Deich, BS

Grace Balfour, BS

Ark Lorin, MD

Greg Kelts, MD

Richard Williams, DMD, PhD

10:24 Post Traumatic Complete Facial Palsy: Comparative Analysis of Outcomes of Conservative Management vs Surgical Exploration: A University Hospital Study and Review of Literature

Diptarka Bhattacharyya, MD

Pravin Rajgadkar, MD

10:31 Association between Metformin Usage and Tumor Growth Rate in Vestibular Schwannoma Patients

Austin Y. Feng, MD

Ali Kouhi, MD

Alejandro Enriquez-Marulanda, MD

Justin M. Moore, MD, PhD

Yona Vaisbuch, MD

10:38 Delayed Tumor Growth in Vestibular Schwannoma: An Argument for Lifelong Surveillance

Robert J. Macielak, MD

Neil S. Patel, MD

Katherine A. Lees, MD

Nicole M. Tombers, RN, CCRP

John P. Marinelli, BS

Matthew L. Carlson, MD

10:45 Rate of Initial Hearing Loss Predicts Risk of Non-Serviceable Hearing among Observed Sporadic Vestibular Schwannoma

Matthew L. Carlson MD

Eric M. Dowling, MD

Christine M. Lohse, MS

Brendan P. O'Connell, MD

Katherine A. Lees MD

David S. Haynes, MD

Jacob B. Hunter, MD

10:52 Factors Associated with Cranial Neuropathy following Gamma Knife for Vestibular Schwannoma

David K. Lerner, MD

Daniel Y. Lee, BA

James G. Naples, MD

Jason A. Brant, MD

Douglas C. Bigelow, MD

Michelle Alonso-Basanta, MD, PhD

Michael J. Ruckenstein, MD

10:59 DISCUSSION/INTRODUCTION

11:05 PANEL

Disorders of Intracranial Pressure

David S. Haynes, MD, Moderator

Paul A. Gardner, MD

Matthew L. Carlson, MD

Howard W. Francis, MD

Ester X. Vivas, MD

12:00 INTRODUCTION OF INCOMING PRESIDENT

Nikolas H. Blevins, MD

12:05 CLOSING REMARKS/ADJOURNMENT