



20<sup>th</sup> International Symposium on  
Recent Advances in Otitis Media  
Program Book  
June 9-13, 2019  
Loews Hollywood Hotel  
Los Angeles, California



### Registration Hours

Registration will be open during the following hours:

Sunday, June 9: 12:00 PM – 7:00 PM

Monday, June 10: 7:00 AM – 6:00 PM

Tuesday, June 11: 7:00 AM – 6:00 PM

Wednesday, June 12: 7:00 AM – 6:00 PM

Thursday, June 13: 7:00 AM – 11:00 PM

### Educational Sessions and Poster Presentations

All educational sessions will be held in the

Dolby Ballroom Theater (Salons 1&2 and 4 &5)

Poster abstracts will be on display in Salon 3 & 6 with the Exhibitors.

### Industry Support Displays

A commercial display of scientific interest will be available during the meeting, providing attendees with an opportunity to view products and services from various corporations. We invite you to visit our exhibitors in Salons 3 & 6 the following hours:

Monday 7:00 AM – 6:00 PM

Tuesday 7:00 AM – 6:00 PM

Wednesday 7:00 AM – 6:00 PM

### Meals

All meals/breaks included with your registration fee will be served in the exhibit hall.

**Breakfast/Coffee:** *Breakfast is not provided however we will have coffee and coffee breaks during the meeting which will be set up amongst our exhibitors for networking.*

**Lunch:** Boxed lunches will be provided in the Exhibit Hall from 12:00 PM – 1:00 PM from Monday through Wednesday.

**Reception:** The Welcome Reception will take place on the 5<sup>th</sup> Floor Pool Deck from 6:00 PM - 8:00 PM on Sunday. Light appetizers and refreshments will be provided.

**Dinner:** On your own. The hotel concierge will also be able to recommend dining options. The ISOM banquet will be held **Tuesday evening at Madera Kitchen from 7:00 PM – 10:00 PM**. Madera Kitchen is within walking distance of the Loews Hollywood Hotel. *If you have not purchased your banquet ticket, they may be purchased at the registration desk for \$135.*

### Speaker Ready Room

Please note that a networked presentation management system is being used for this meeting, so it is essential that all presentations are received in the Speaker Ready Room **no later than 4 hours prior to the presentation.**

The Speaker Ready Room is located in the Elysian Park on the Mezzanine Level of Loews Hollywood.

### Hours for Speaker Ready Room:

Sunday, June 9 - 12:00 PM – 7:00 PM

Monday, June 10 - 7:00 AM – 6:15 PM

Tuesday, June 11- 7:00 AM – 6:15 PM

Wednesday, June -12: 7:00 AM – 6:15 PM

Thursday, June 13 - 7:00 AM – 11:00 AM

## Conference Management

Association Management  
c/o American College of Surgeons  
633 N. Saint Clair St.  
Chicago, IL 60611-3211

### Disclaimer

*Attendees voluntarily assume all risks involved in travel to and from ISOM 2019 and in attendance of and participation in the program. ISOM and Association Management by the ACS shall not be liable for any loss, injury, or damage to person or property resulting directly or indirectly from any acts of God, acts of government or other authorities, civil disturbances, acts of terrorism, riots, thefts, or from any other similar causes.*

## Continuing Medical Education Credit Information:

### Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the American College of Surgeons and the International Society for Otitis Media. The American College of Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

### AMA PRA CATEGORY 1 CREDITS™

The American College of Surgeons designates this live activity for a maximum of **21.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Continuing Education Information

If you wish to receive Continuing Education credits for ISOM 2019 educational sessions, please visit our website at [otitismedia2019.org](http://otitismedia2019.org) and click on CME under the Scientific Program tab. A Certificate of Attendance or CME Certificate will be provided upon completion of the evaluation. Your certificate will confirm your CME Credits. If you have any questions, please contact Katie Fitzgerald at [isom@facs.org](mailto:isom@facs.org).

## Disclosure Information:

In compliance with ACCME Accreditation Criteria, the American College of Surgeons, as the accredited provider of this activity, must ensure that anyone in a position to control the content of the educational activity has disclosed all relevant financial relationships with any commercial interest. All reported conflicts are managed by a designated official to ensure a bias-free presentation. Please see the insert to this program for the complete disclosure list.

## OM2019

### Executive Committee of the Board

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Lauren Bakaletz (2019)  
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Kevin Mason (2021) (USA)  
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Stephen Pelton (2021) (USA)  
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Allen Ryan (2021) (USA)  
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Kevin Mason (Chair, Nationwide Children's Research Institute, USA)  
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Tal Marom (Assuta Ashdod Univ. Hospital, Israel)  
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Diego Preciado (Children's National Health System, USA)  
Regie Lyn Santos-Cortez (Univ. of Colorado, USA)  
Anne Schilder (Univ. College London, UK)  
Sharon Ovnat Tamir (Assuta Ashdod Univ. Hospital, Israel)  
Roderick Venekamp (Utrecht Univ., Netherlands)

# SCIENTIFIC PROGRAM

Monday, June 10th		
TIME	TITLE & PRESENTER/MODERATOR	LOCATION
7:00 AM - 5:00 PM	<b>Registration Opens</b>	
7:30 AM - 8:00 AM	<b>Morning Coffee with Exhibitors</b>	Salon 3 & 6
8:00 AM - 8:30 AM	<b>Welcome and Special Remarks</b> <i>President's Welcome</i> Joseph E. Kerschner, MD <i>David Lim Tribute and Research Conference Overview</i> Lauren O. Bakaletz, PhD <i>Program Overview</i> Kevin M. Mason, PhD	Salon 1 & 2
8:30 AM - 9:30 AM	<b>Opening Keynote: Ear and Hearing Care – a Global Health Priority: Really??</b> Keynote Introduction by Joseph E. Kerschner, MD Opening Keynote Speaker: Shelly Chadha, MBBS, MS, PhD	
9:30 AM - 10:00 AM	<b>Coffee Break with Exhibitors</b>	Salon 3 & 6
10:00 AM - 12:00 PM	<b>Concurrent Session I Polymicrobial OM</b>  <b>Moderators:</b> W. Edward Swords, PhD; Elke Seppanen	Salon 1 & 2
10:00 AM - 10:25 AM	<b>Respiratory Viruses – Paving the Way for Otopathogens</b> Johanna Nokso-Koivisto, MD, PhD	
10:25 AM - 10:40 AM	<b>NTHI and <i>M. catarrhalis</i> Released from a Polymicrobial Biofilm by Antibodies against NTHI Type IV Pili are Hypersensitive to Antibiotic Mediated Killing</b> Elaine Mokrzan	
10:40 AM - 11:05 AM	<b>The Polymicrobial Environment: How Relevant is What We Know?</b> Jennelle Kyd, PhD	
11:05 AM - 11:20 AM	<b>Nasal Microbiota Profiles and Chronic Otitis Media with Effusion</b> Rebecca Walker	
11:20 AM - 11:45 AM	<b>Characteristics of Nasopharyngeal and Oral Microbiome Protecting from Acute Otitis Media</b> Terhi Tapiainen, MD, PhD	
11:45 AM - 12:00 PM	<b>The Yield of Respiratory Viruses Detection Testing is Age-Dependent in Children with Uncomplicated Acute Otitis Media</b> Tal Marom, MD	
10:00 AM - 12:00 PM	<b>Concurrent Session II: AOM Clinical Management</b>  <b>Moderators:</b> Anne Schilder, MD; Chris Brennan-Jones, PhD	Salon 4 & 5
10:00 AM - 10:25 AM	<b>Topical Analgesics for Acute Otitis Media – Yes or No?</b> Roderick P. Venekamp, MD, PhD	
10:25 AM - 10:40 AM	<b>The Impact of Pneumococcal Vaccine Schedules on Nasopharyngeal Microbiology of Indigenous Infants Aged 12 Months</b> Jemima Beissbarth	
10:40 AM - 11:05 AM	<b>Treating the Disease When You Have the Disease</b> Joseph E. Kerschner, MD	
11:05 AM - 11:20 AM	<b>Effectiveness of a Multifaceted Intervention to Educate General Practitioners about Pain Management in Children with Acute Otitis Media: a Cluster Randomized Controlled Trial</b> Rick T. Van Uum	
11:20 AM - 11:45 AM	<b>2018 Update of Japanese Guidelines for Diagnosis and Management of Pediatric Acute Otitis Media: The Reason Why We Need Our Own Version</b> Tatsuya Hayashi, MD, PhD	
11:45 AM - 12:00 PM	<b>Parental Perceptions and Management Strategies for Otitis Media In Greenland</b> Malene Demant	
12:00 PM - 1:15 PM	<b>Lunch with Exhibitors</b>	Salon 3 & 6
12:15 PM - 1:15 PM	<b>NIH Workshop</b> <b>Moderator:</b> Jian-Dong Li, MD, PhD <b>Panelists:</b> Bracie Watson, PhD; Alberto Rivera-Rentas, PhD	Salon 4 & 5
1:15 PM - 2:45 PM	<b>Concurrent Panel I: Comparing OM Management and Outcomes in the US and Australia/New Zealand</b> <b>Moderator:</b> Linda Miller Calandra, MSN, CRNP, CORLN  <b>Panelists:</b> Kandice Bowman, MS, CPNP; Teresa Giordano, DNP, CORLN; Theresa O'Leary, Director/Ear Nurse Consultant New Zealand; Roxanne Link, CFNP, APNP; Kristina L. Keppel, DNP, RN, APNP	Salon 1 & 2
1:15 PM - 2:45 PM	<b>Concurrent Panel II: OM Post-PCV</b> <b>Moderator:</b> Ron Dagan, MD	Salon 4 & 5

## SCIENTIFIC PROGRAM

**Panelists:** Janak A. Patel, MD; Stephen I. Pelton, MD; Paula Tahtinen, MD

2:45 PM - 3:00 PM	<b>Coffee Break with Exhibitors</b>	Salon 3 & 6
3:00 PM - 5:15 PM	<b>Concurrent Session III: Vaccine/Immunology</b>	Salon 1 & 2
	<b>Moderators:</b> Allen F. Ryan, PhD; Simon Jespersen	
3:00 PM - 3:25 PM	<b>Paediatric Immune Responses to Otopathogen Antigens to Inform Vaccine Development</b> Lea-Ann Kirkham, PhD	
3:25 PM - 3:40 PM	<b>Immunization with a Banaid Protects Against Experimental Otitis Media Due to Nontypeable <i>Haemophilus influenzae</i></b> Laura Novotny	
3:40 PM - 4:05 PM	<b>Can Maternal Immunisation Strategies Prevent Infant Otitis Media?</b> Michael Binks, PhD	
4:05 PM - 4:20 PM	<b>Acute otitis media in Infants Younger Than Two Months of Age: Epidemiologic and Microbiologic Characteristics in the Era of Pneumococcal Conjugate Vaccines</b> Oren Ziv	
4:20 PM - 4:45 PM	<b>Immune Dysfunction in the Otitis Prone Child</b> Michael Pichichero, MD	
4:45 PM - 5:00 PM	<b>Aboriginal Australian Otitis Prone Children have Reduced Natural Antibody Titers to NTHi Vaccine Candidate Antigens Associated with Attachment and Biofilm Formation</b> Sharon Clark	
5:00 PM - 5:15 PM	<b>Disparity In Allergy Testing Results Among Patients With Allergic Rhinitis And Eustachian Tube Dysfunction</b> David Hurst, MD, PhD	
3:00 PM - 5:00 PM	<b>Concurrent Session IV: CSOM and Sequelae</b>	Salon 3 & 4
	<b>Moderators:</b> Ken Kazahaya, MD; Rick van Uum, MD	
3:00 PM - 3:25 PM	<b>CSOM, the Burden of Disease</b> Ramon Gordon Jensen, PhD	
3:25 PM - 3:40 PM	<b>Baseline and End of Therapy Hearing in Aboriginal Children with Chronic Suppurative Otitis Media Receiving Standard Topical Treatment Plus Adjunct Therapies: A Factorial Randomised Control Trial</b> Christine Wigger	
3:40 PM - 4:05 PM	<b>Nasopharyngeal Microbiome Analysis in Healthy and Otitis-Prone Children: Focus on History of Spontaneous Tympanic Membrane Perforation</b> Paola Marchisio, MD	
4:05 PM - 4:20 PM	<b>Impact of History of Otitis Media and Hearing Loss on Children's Academic Achievement: The U.S. Early Childhood Longitudinal Study-Kindergarten Class of 2010-11 (ECLS-K:2011)</b> Chuan-Ming Li	
4:20 PM - 4:45 PM	<b>Innate Immune Interaction in Otitis Media Epitympanalis</b> Anke Leichtle, MD	
4:45 PM - 5:00 PM	<b>Hearing Outcomes at 1 to 3 Years of Age for Aboriginal Children Living in Remote Communities Allocated to Combination Schedules of Pneumococcal Conjugate Vaccines</b> Amanda Leach, PhD	
5:15 PM - 6:15 PM	<b>ISOM ALL Members Meeting</b>	Salon 1 & 2

### Tuesday, June 11, 2019

TIME	TITLE & PRESENTER/MODERATOR	LOCATION
7:00 AM - 5:00 PM	<b>Registration Opens</b>	
7:30 AM - 8:00 AM	<b>Morning Coffee with Exhibitors</b>	Salon 3 & 6
8:00 AM - 9:40 AM	<b>Plenary I: Vaccines</b>	Salon 1 & 2
	<b>Moderator:</b> Jennelle Kyd, PhD	
8:00 AM - 8:25 AM	<b>How does <i>Moraxella catarrhalis</i> Fly Under the Radar? Vaccine for an Enigmatic Pathogen</b> Timothy F. Murphy, MD	
8:25 AM - 8:50 AM	<b>PCV and Otitis Media: New Light in the Dark</b> Ron Dagan, MD	
8:50 AM - 9:15 AM	<b>Hollywood Casting Call – Looking For: A Surface Exposed, Highly Conserved &amp; Broadly Protective NTHi Vaccine Antigen</b> Lauren O. Bakaletz, PhD	
9:15 AM - 9:40 AM	<b>Prevention of Early OM in children: Rationale and Strategies</b> Stephen I. Pelton, MD	
9:40 AM - 10:00 AM	<b>Coffee Break with Exhibitors</b>	Salon 3 & 6

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10:00 AM - 12:00 PM	<b>Concurrent Session V: Pathogenesis I</b>	Salon 1 & 2
	<b>Moderators:</b> Timothy F. Murphy, MD; Pratik Vikhe, PhD	
10:00 AM - 10:25 AM	<b>Tight Regulation of Innate Immunity and Inflammation in the Pathogenesis of Otitis Media</b> Jian-Dong Li, MD, PhD	
10:25 AM - 10:40 AM	<b>Prevention of Non-Typeable <i>Haemophilus Influenzae</i> Colonisation and Otitis Media in Mice by Microbial Interference with a Closely-Related Commensal Species</b> Lea-Ann Kirkham, PhD	
10:40 AM - 11:05 AM	<b>A Bacterial Epigenetic Switch Modifies Host Immune Response During Otitis Media and Increases Nontypeable <i>Haemophilus influenzae</i> Persistence</b> Kenneth Brockman, PhD	
11:05 AM - 11:20 AM	<b>Sequential Episodes of Experimental Otitis Media Promote Pathogenic Lifestyles Through Microevolution of Nontypeable <i>Haemophilus influenzae</i></b> Alistair Harrison	
11:20 AM - 11:45 AM	<b>Biofilms in Otitis Media</b> W. Edward Swords, PhD	
11:45 AM - 12:00 PM	<b>Rapid Gene Regulation by Nontypeable <i>Haemophilus influenzae</i> Impacted Sensitivity to First-Line Antibiotics Used to Treat OM</b> Sean Stacey	
10:00 AM - 12:00 PM	<b>Concurrent Session VI What is Otitis Media?</b>	Salon 4 & 5
	<b>Moderators:</b> Diego Preciado, MD, PhD; Audrey Lim	
10:00 AM - 10:25 AM	<b>Differences Between "Otitis Medias": Clinical Picture, Epithelium and Microbiology</b> Ann Hermansson, Professor, Senior Consultant	
10:25 AM - 10:40 AM	<b>Bacterial Reservoirs in Otitis-prone Children are Associated with Repeat Surgery Outcomes: A Cohort Study</b> Elke Seppanen	
10:40 AM - 11:05 AM	<b>Host Defence in the Middle Ear Epithelium</b> Colin D. Bingle, PhD	
11:05 AM - 11:20 AM	<b>Epidemiological Data on Hearing Impairment among Greenlandic Adolescents: Item Development and Findings from the Health Behaviour in School-aged Children Study 2018</b> Ramon Gordon Jensen, PhD	
11:20 AM - 11:45 AM	<b>Bacteria Host Interaction in Different Settings</b> Peter Richmond	
11:45 AM - 12:00 PM	<b>Biological Networks Underlying Genetic Susceptibility to Upper and Lower Airway Conditions</b> Erin Baschal	
12:00 PM - 1:00 PM	<b>Lunch with Exhibitors</b>	Salon 3 & 6
	<b>Poster Quickshots</b>	Salon 4 & 5
1:00 PM - 3:00 PM	<b>Poster Presentations and Judging</b>	Salons 4, 5 and General Session
3:00 PM - 5:15 PM	<b>Concurrent Session VII: Pathogenesis II</b>	Salon 1 & 2
	<b>Moderators:</b> Kenneth Brockman, PhD; Sharon Clark	
3:00 PM - 3:25 PM	<b>The Role of Innate Immunity in the Pathogenesis and Resolution of Otitis Media: From Single Cells to Animal Models</b> Allen F. Ryan, PhD	
3:25 PM - 3:40 PM	<b><i>In vitro</i> Biofilm Formation Distinguishes Strains of <i>Streptococcus pneumoniae</i> that Persist in the Nasopharynx from Non-persistent Strains in Children with Acute Otitis Media</b> Paula Tähtinen	
3:40 PM - 4:05 PM	<b>Measuring Biomarkers at the Time of Initial VTI to Predict Children that will Require Repeat Surgery</b> Ruth Thornton, PhD	
4:05 PM - 4:20 PM	<b>Diverse Paths to Serum Resistance in Nontypeable <i>Haemophilus influenzae</i> Isolated from Children with Otitis Media</b> Kevin Raible	
4:20 PM - 4:45 PM	<b>Non-typeable <i>Haemophilus influenzae</i> Adhesins HMW and Hia Differentially Bind Human Airway Sialic Acid Glycans</b> Michael Jennings, PhD	
4:45 PM - 5:00 PM	<b>Development of a Primary Pediatric Middle Ear Epithelial Cell Model for the Study of MUC5B Regulation in Otitis Media</b> Diego Preciado, MD, PhD	
5:00 PM - 5:15 PM	<b>Global Gene Expression Profile of Middle Ear Mucosa in a Chinchilla Model of Pneumococcal-induced Otitis Media</b> Wenzhou Hong, PhD	

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3:00 PM - 5:15 PM	<b>Concurrent Session VIII: Novel Treatments</b> <b>Moderators:</b> Marie Gisselsson-Sólen, MD, PhD ; Gayatri Sharma	Salon 4 & 5
3:00 PM - 3:25 PM	<b>Transtympanic Delivery of Antibiotics for Acute Otitis Media: All the Benefits with Less Patient and Environmental Impact</b> Vishakha Sabharwal, MD	
3:25 PM - 3:40 PM	<b>Micro RNAs Implication in the Progression of Middle Ear Infection</b> Gabriel Nahas	
3:40 PM - 4:05 PM	<b>Targeting the Tympanic Membrane for Antibiotic Delivery Using Phage Display</b> Arwa Kurabi, PhD	
4:05 PM - 4:20 PM	<b>Office Insertion of Tympanostomy Tubes in Young Children: Lessons Learned over 10 Years</b> Richard Rosenfeld, MD	
4:20 PM - 4:45 PM	<b>Development of Functionally Designed Nano-Scaffolds for Regeneration of Chronic Tympanic Membrane Perforations</b> Yun-Hoon Choung, DDS, MD, PhD	
4:45 PM - 5:00 PM	<b>Topical and Systemic Interventions for Chronic Suppurative Otitis Media: A Suite of Cochrane Reviews</b> Chris Brennan-Jones	
5:00 PM - 5:15 PM	<b>Trans-Tympanic Delivery of Local Anesthetics for Pain in Acute Otitis Media</b> Dan Kohane, MD, PhD	
7:00 PM - 10:00 PM	<b>ISOM Banquet at Madeira Kitchen</b>	
<b>Wednesday, June 12, 2019</b>		
TIME	TITLE & PRESENTER/MODERATOR	LOCATION
7:00 AM - 5:00 PM	<b>Registration Opens</b>	
7:30 AM - 8:00 AM	<b>Morning Coffee with Exhibitors</b>	Salon 3 & 6
8:00 AM - 9:40 AM	<b>Plenary II: Biomedical Advances in OM Research</b> <b>Moderator:</b> Cuneyt Alper, MD	Salon 1 & 2
8:00 AM - 8:25 AM	<b>Implantable Devices for Rehabilitation in Chronic Otitis Media</b> Herman A. Jenkins, MD	
8:25 AM - 8:50 AM	<b>Behind the Curtain: Using Optical Coherence Tomography to Noninvasively Assess Ear Infections and Other Ear Pathologies</b> Ryan Shelton, PhD	
8:50 AM - 9:15 AM	<b>Crossing the TM Barrier with Nanocarriers</b> Amit Joshi, PhD	
9:15 AM - 9:40 AM	<b>Telemedicine in the Last Frontier</b> James D. Andrews, MD	
9:40 AM - 10:00 AM	<b>Coffee Break with Exhibitors</b>	Salon 3 & 6
10:00 AM - 12:00 PM	<b>Concurrent Session IX: Genetics and Bioinformatics</b> <b>Moderators:</b> Arwa Kurabi, PhD ; Erin Baschal, PhD	Salon 1 & 2
10:00 AM - 10:25 AM	<b>Multi-informatic Approaches to Identifying OM-specific Virulence Genes from within the Bacterial Genomic Dark Matter</b> Garth Ehrlich, PhD	
10:25 AM - 10:40 AM	<b>Identification of Rare, Missense PLG Variants in Families with Otitis Media</b> Tori Bootpetch Roberts	
10:40 AM - 11:05 AM	<b>Sensitizing the Middle Ear: Role of FUT2 Variants</b> Zubair Ahmed, PhD	
11:05 AM - 11:20 AM	<b>The Transcriptional Landscape of the <i>In Vitro</i> Murine Middle Ear Epithelium</b> Apoorva Mulay	
11:20 AM - 11:45 AM	<b>Supragenome-wide Association Studies of <i>Haemophilus influenzae</i> Reveal Roles for Bacterial Nitrogen Metabolism and pH Homeostasis in Middle Ear Disease</b> Joshua Mell, PhD	
11:45 AM - 12:00 PM	<b>SPINK5 Variants Confer Susceptibility to Autosomal Dominant Non-syndromic Otitis Media</b> Lena Hafren	
10:00 AM - 12:00 PM	<b>Concurrent Session X: Diagnosis</b> <b>Moderators:</b> Sharon Tamir, MD; Asbjorn Korvel-Hanquist	Salon 4 & 5

## SCIENTIFIC PROGRAM

10:00 AM - 10:25 AM	<b>E-Health Related to Otitis Media Diagnosis</b> Tania Sih, MD, PhD, Hon FACS
10:25 AM - 10:40 AM	<b>Creating an Otitis Media Research Network in Aboriginal Medical Services in Australia</b> Letitia Campbell
10:40 AM - 11:05 AM	<b>Next Generation Middle Ear Evaluation</b> Oded Kraus, MD
11:05 AM - 11:20 AM	<b>Non-Invasive, Cross-Sectional Optical Middle Ear Imaging Compared with Acoustic Measurements during Otitis Media</b> Jungeun Won
11:20 AM - 11:45 AM	<b>Ramen Spectroscopy for the Identification of Bacteria Causing Otitis Media</b> Andrea Locke, PhD
11:45 AM - 12:00 PM	<b>Otitis Media App: Using the Grading Recommendations and Assessment and Development and Evaluation (GRADE) Approach for a Smartphone App Guideline in the Prevention and Management of Otitis Media among Australian Indigenous Children</b> Sumon Das

12:00 PM - 1:00 PM	<b>Lunch with Exhibitors</b>	<b>Salon 3 &amp; 6</b>
12:15 PM - 1:15 PM	<b>Panel III: How Societal and Cultural Context Affect Treatment Decisions</b> <b>Moderator:</b> Joseph E. Kerschner, MD <b>Panelists:</b> Kelvin Kong, MD; Anne Schilder, MD; Oak-Sung Choo, MD	

1:15 PM - 2:45 PM	<b>Concurrent Panel IV: Clinical Guidelines: Do We Need an Update?</b> <b>Moderator:</b> Ann Hermansson, MD <b>Panelists:</b> Preben Homøe, MD, DMSc, PhD; Paola Marchisio, MD; Peter Morris, PhD; Marie Gisselsson-Sólen, PhD; Diego Preciado, MD, PhD; Richard Rosenfeld, MD	
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1:15 PM - 2:45 PM	<b>Concurrent Panel V Microbiota: What Do We Know? Where Do We Want to Go? What is Holding Us Back?</b> <b>Moderator:</b> Robyn Marsh, PhD <b>Panelists:</b> Robyn Marsh, PhD; Katherine Lemon, MD, PhD; Josh Earl, PhD; Seweryn Bialasiewicz, PhD	<b>Salon 4 &amp; 5</b>
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2:45 PM - 3:00 PM	<b>Coffee Break with Exhibitors</b>	<b>Salon 3 &amp; 6</b>
3:00 PM - 5:00 PM	<b>Integrated Research Conference Reports</b>	<b>Salon 1 &amp; 2</b>
3:00 PM - 3:15 PM	<b>Biomedical Engineering/Biotechnology &amp; New Models</b> Tal Marom (Chair), Marie Gisselsson-Sólen (Co-Chair)	
3:15 PM - 3:30 PM	<b>Bioinformatics</b> Diego Preciado (Co-Chair), Ann Hermansson (Co-Chair)	
3:30 PM - 3:45 PM	<b>Epigenetics/Genomics/Precision Medicine &amp; Targeted Therapies</b> Garth Ehrlich (Chair), Regie Lyn P. Santos-Cortez (Co-Chair)	
3:45 PM - 4:00 PM	<b>Microbiome/Polymicrobial Nature of OM/Microbial Shifts with Use of Antibiotics and/or Broad Licensure and Use of Vaccines</b> Robyn Marsh (Chair), Heidi Smith-Vaughan (Co-Chair)	
4:00 PM - 4:15 PM	<b>Impact of OM on Quality of Life and Development</b> Preben Homoe (Chair), Christian Heidemann (Co-Chair)	
4:15 PM - 4:30 PM	<b>Global Burden of Disease/Disadvantaged Populations</b> Amanda Leach (Chair), Preben Homoe (Co-Chair)	
4:30 PM - 4:45 PM	<b>Pathogenesis</b> Ruth B. Thornton (Chair), Ken Brockman (Co-Chair)	
4:45 PM - 5:00 PM	<b>Vaccine/Immunology</b> Mark Alderson (Chair), Lea-Ann Kirkham (Co-Chair)	

2:45 PM - 3:00 PM	<b>Coffee Break with Exhibitors</b>	<b>Salon 3 &amp; 6</b>
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4:15 PM - 4:30 PM	<b>Global Burden of Disease/Disadvantaged Populations</b> Amanda Leach (Chair), Preben Homoe (Co-Chair)	
4:30 PM - 4:45 PM	<b>Pathogenesis</b> Ruth B. Thornton (Chair), Ken Brockman (Co-Chair)	
4:45 PM - 5:00 PM	<b>Vaccine/Immunology</b> Mark Alderson (Chair), Lea-Ann Kirkham (Co-Chair)	

### Thursday, June 13, 2019

TIME	TITLE & PRESENTER MODERATOR	LOCATION
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7:00 AM - 11:00 AM	<b>Registration Opens</b>	
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8:00 AM - 8:30 AM	<b>Checkout/Morning Coffee</b>	<b>Salon 3 &amp; 6</b>
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8:30 AM - 9:45 AM	<b>Plenary III : Microbiome and Respiratory Health</b> <b>Moderator:</b> Garth Ehrlich, PhD	<b>Salon 1 &amp; 2</b>
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8:30 AM - 8:55 AM	<b>When is a Microbiomic Perspective Essential to Understanding OM Pathogenesis? When is it Overkill?</b> Robyn Marsh, PhD	
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## SCIENTIFIC PROGRAM

8:55 AM – 9:20 AM	<b>Picking Sides: Cooperation and Competition in Human Nasal Microbiome</b> Katherine Lemon MD, PhD	
9:20 AM – 9:45 AM	<b>Down the Diversity Rabbit Hole</b> Seweryn Bialasiewicz, PhD	
10:00 AM - 11:00 AM	<b>Closing Keynote: Ear, Nose and Throat Microbiome</b> Keynote Introduction by Lauren O. Bakaletz, PhD Closing Keynote Speaker: Brett Wagner, PhD	
11:00 AM - 11:30 AM	<b>Awards &amp; Closing Remarks</b> <b>2021 Meeting:</b> Tal Maron, MD; Sharon Tamir, MD <b>2019 Meeting Review:</b> Kevin M. Mason, PhD <b>Awards Ceremony:</b> Kevin M. Mason, PhD	Salon 1 & 2
11:30 AM	<b>Meeting Adjourns</b> Joseph E. Kerschner, MD Lauren O. Bakaletz, PhD	

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