

9th International
Symposium on Recent Advances in

Otitis Media

June 3 - 7, 2007

Tradewinds Resort & Conference Center
St. Pete Beach, Florida USA

Symposium Director: David J. Lim, MD
House Ear Institute
Los Angeles, California USA

Symposium Co-Directors: Charles D. Bluestone, MD
Children's Hospital of Pittsburgh
Pittsburgh, Pennsylvania USA

Margaretha L. Casselbrant, MD, PhD
Children's Hospital of Pittsburgh
Pittsburgh, Pennsylvania USA

Jointly Sponsored by:

House Ear Institute

Children's Hospital of Pittsburgh
Department of Pediatric Otolaryngology

University of Pittsburgh School of Medicine
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International Symposium on Otitis Media, Inc.

Deafness Research Foundation

Continuing Education Credit

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the University of Pittsburgh School of Medicine and The House Ear Institute, Children's Hospital of Pittsburgh Department of Pediatric Otolaryngology, the International Symposium on Otitis Media, Inc. and The Deafness Research Foundation.

The University of Pittsburgh School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

*The University of Pittsburgh School of Medicine designates this educational activity for a maximum of 36.0 *AMA PRA Category 1 Credits*[™]. Each physician should only claim credit commensurate with the extent of their participation in the activity.

*Other healthcare professionals are awarded 3.6 continuing education units (CEU's) which are equal to 36.0 contact hours.

Assessing Course Credits

You will receive a Credit Designation Sheet inside your registration package. Upon your departure from the course, complete and turn in your Credit Designation Sheet after indicating the number of hours you spent in the educational activities (the breaks and dinner are not accredited.) The hours you claim will be entered on to a personalized credit transcript. In order to gain your personalized credit transcript, you must visit the secured website <http://ccehs.upmc.edu> and follow the Credit Transcript instructions to gain and print your transcript. The transcript acts as a valid documentation (in place of a certificate) of your attendance and completion of this accredited course.

The House Ear Institute

A non-profit 501(c)(3) organization dedicated to advancing hearing science through research and education to improve quality of life, the House Ear Institute has been engaged in the scientific exploration of the auditory system from the ear canal to the cortex of the brain for sixty years. The Institute achieved its distinction in hearing science through a combination of applied otologic research, clinical services and education programs. Our ground-breaking contributions to the field of otology include the development of the first FDA-approved cochlear implant system, the origination of an international system for assessing facial nerve function and development of testing methods to determine the hearing status of infants, among others. Today, the Institute has a wide-ranging research program with particular concentrations in cell and molecular biology, development of devices to assist in hearing, and children's hearing.

The vision of the House Ear Institute is to be the leading research center for the study of hearing, hearing loss and related otologic disorders; our values are to treat each other with respect, demonstrate integrity, and do our jobs well.

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The University of Pittsburgh, as an educational institution and as an employer, values equality of opportunity, human dignity, and racial/ethnic and cultural diversity. Accordingly, the University prohibits and will not engage in discrimination or harassment on the basis of color, religion, national origin, ancestry, sex, age, marital status, familial status, sexual orientation, disability, or status as a disabled veteran or a veteran of the Vietnam era. Further the University will continue to take affirmative steps to support and advance these values consistent with the University's mission. This policy applies to admissions, employment, access to and treatment in University programs and activities. This is a commitment made by the University and is in accordance with federal, state, and/or local laws and regulations.

Faculty

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Los Angeles, CA, USA

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Faculty Disclosure

In accordance with Accreditation Council for Continuing Medical Education requirements on disclosure, information about relationships of presenters with commercial interests (if any) will be included in materials distributed at the time of the Symposium.

Program Committee

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Medtronic ENT

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NINTH INTERNATIONAL SYMPOSIUM
ON RECENT ADVANCES IN OTITIS MEDIA

SCHEDULE AT A GLANCE

SUNDAY, JUNE 3, 2007

3:00 PM - 6:00 PM	Registration/Check In	<i>Grand Palm Colonnade</i>
3:00 PM - 6:00 PM	Poster Set-up for Session 1	<i>Indian/Bird</i>
3:00 PM - 6:00 PM	Exhibitor Set-up	<i>Long</i>
6:00 PM - 9:00 PM	Welcoming Reception	<i>Grand Palm Colonnade</i>

MONDAY, JUNE 4, 2007

7:00 AM - 6:00 PM	Registration	<i>Grand Palm Colonnade</i>
7:00 AM - 8:00 AM	Continental Breakfast/Viewing of Exhibits	<i>Grand Palm Colonnade/ Long</i>
8:00 AM - 8:30 AM	Welcome <i>David J. Lim, MD, Charles D. Bluestone, MD, Margaretha L. Casselbrant, MD, PhD</i>	<i>Tarpon/Sawyer</i>
8:30 AM - 8:45 AM	Special Welcome <i>Jim Boswell CEO, House Ear Institute Los Angeles, CA</i>	<i>Tarpon/Sawyer</i>
8:45 AM - 9:00 AM	Special Remark <i>James F. Battey, MD, PhD Director, NIDCD/National Institutes of Health, Bethesda, MD</i>	<i>Tarpon/Sawyer</i>
9:00 AM - 9:10 AM	Announcement of 2009 Extraordinary Otitis Media Symposium <i>Keehyun Park, Vice President, Health Affairs, Ajou University, Korea</i>	<i>Tarpon/Sawyer</i>
9:10 AM - 9:25 AM	Program Overview <i>Richard M. Rosenfeld, MD, MPH, Chair, Program Committee</i>	<i>Tarpon/Sawyer</i>
9:30 AM	SPECIAL LECTURE 1 Bacterial Genomics and the Pathogenesis of <i>Haemophilus influenzae</i> Otitis Media <i>Richard Moxon University of Oxford Oxford, United Kingdom</i>	<i>Tarpon/Sawyer</i>

10:00 AM - 10:30 AM	Morning Break	
10:30 AM	SPECIAL LECTURE 2 Clinical Trials in Evaluating Antimicrobials in Acute Otitis Media <i>John Powers</i> <i>NIH, Bethesda, MD</i>	<i>Tarpon/Sawyer</i>
11:00 AM - 12:30 PM	Plenary Session	
11:00 AM - 12:30 PM	PATHOGENESIS 1	<i>Tarpon/Sawyer</i>
12:30 PM - 1:00 PM	Box Lunch/Viewing of Posters	<i>Indian/Bird</i>
1:00 PM – 2:00 PM	LUNCH-TIME SPECIAL LECTURE Topic: NIH Funding Auditory System Review of Otitis Media Grant Applications <i>Edwin Clayton</i> <i>National Institutes of Health,</i> <i>Bethesda, MD</i> Research Opportunities Update from NIDCD/NIH <i>Bracie Watson</i> <i>NIH/NIDCD, Bethesda, MD</i>	<i>Tarpon/Sawyer</i>
2:00 PM – 2:30 PM	Poster Viewing	<i>Indian/Bird</i>
2:30 PM – 4:00 PM	Contributed Papers Oral Presentations (Sessions A and B)	
2:30 PM – 4:00 PM	SESSION A1 DIAGNOSIS	<i>Tarpon</i>
2:30 PM – 4:00 PM	SESSION B1 MICROBIOLOGY/MOLECULAR BIOLOGY	<i>Sawyer</i>
4:00 PM - 4:30 PM	Afternoon Break	<i>Indian/Bird</i>
4:30 PM – 6:00 PM	Contributed Papers Oral Presentations (Sessions A and B)	
4:30 PM – 6:00 PM	SESSION A2 EPIDEMIOLOGY/GENETICS 1	<i>Tarpon</i>
4:30 PM – 6:00 PM	SESSION B2 PATHOGENESIS/TREATMENT 3	<i>Sawyer</i>

6:00 PM - 6:30 PM	Poster Session 1	<i>Indian/Bird</i>
6:30 PM - 7:15 PM	Buffet Dinner	<i>Grand Palm Colonnade</i>
7:15 PM - 9:00 PM	GREAT DEBATE 1 Current Status of "Observation Option" for AOM	<i>Tarpon</i>
9:00 PM	Adjournment	

TUESDAY, JUNE 5, 2007

7:00 AM - 6:00 PM	Registration	<i>Indian/Bird</i>
7:00 AM - 8:00 AM	Continental Breakfast/Viewing of Exhibits	<i>Indian/Bird</i>
8:00 AM - 10:00 AM	MINI SYMPOSIUM 1 Molecular Pathogenesis of OM <i>Organizers: Allen Ryan and Jian-Dong Li</i>	<i>Tarpon/Sawyer</i>
10:00 AM - 10:30 AM	Morning Break	
10:30 AM	SPECIAL LECTURE 3 Computer Modeling in Otitis Media <i>Samir Ghadiali</i> <i>Lehigh University, Bethlehem, PA</i>	<i>Tarpon/Sawyer</i>
11:00 AM - 12:30 PM	Plenary Session	
11:00 AM - 12:30 PM	TREATMENT 1	<i>Tarpon/Sawyer</i>
12:30 PM - 1:00 PM	Box Lunch/Viewing of Posters	<i>Indian/Bird</i>
1:00 PM	LUNCH-TIME SPECIAL LECTURE History of Serous Otitis Media <i>Robert Ruben</i> <i>Albert Einstein College of Medicine, New York, NY</i>	<i>Tarpon/Sawyer</i>
2:00 PM - 2:30 PM	Poster Viewing	<i>Indian/Bird</i>
2:30 PM - 4:00 PM	Contributed Papers Oral Presentations (Sessions A and B)	
2:30 PM - 4:00 PM	SESSION A1 EPIDEMIOLOGY/GENETICS 2	<i>Tarpon</i>

2:30 PM - 4:00 PM	SESSION B1 PATHOGENESIS 2	<i>Sawyer</i>
4:00 PM - 4:30 PM	Break	
4:30 PM - 6:00 PM	SESSION A2 TREATMENT 2	<i>Tarpon</i>
4:30 PM - 6:00 PM	SESSION B2 BIOCHEMISTRY/IMMUNOLOGY	<i>Sawyer</i>
6:00 PM - 6:30 PM	Poster Viewing and Refreshments	<i>Indian/Bird</i>
6:30 PM - 7:15 PM	Buffet Dinner	<i>Grand Palm Colonnade</i>
7:15 PM	GREAT DEBATE 2 Which Child Benefits Most From Tympanostomy Tubes?	<i>Tarpon</i>
9:00 PM	Adjournment	

WEDNESDAY, JUNE 6, 2007

7:00 AM - 6:00 PM	Registration	<i>Grand Palm Colonnade</i>
7:00 AM - 8:00 AM	Continental Breakfast/Viewing of Exhibits	
8:00 AM - 10:00 AM	MINI SYMPOSIUM 2 New Concepts in OM Vaccines <i>Organizers: Stephen Pelton, Stephen Barenkamp</i>	<i>Tarpon/Sawyer Indian/Bird</i>
10:00 AM	Break	
10:30 AM	SPECIAL LECTURE 4 The Role of Viruses in Otitis Media <i>Terho Heikkinen Turku University Hospital, Turku, Finland</i>	<i>Tarpon/Sawyer</i>
11:00 AM - 12:30 PM	Plenary Session	
11:00 AM - 12:30 PM	VACCINE	<i>Tarpon/Sawyer</i>
12:30 PM - 1:00 PM	Box Lunch/Viewing of Posters	<i>Indian/Bird</i>
1:00 PM - 2:00 PM	LUNCH-TIME SPECIAL PRESENTATION Topic: Animal Models for OM	<i>Tarpon/Sawyer</i>

**An Animal Model for the Study
of Otitis Media**

*Stephen I. Wasserman
UC San Diego, La Jolla, CA*

**Elucidating Genetic Pathways
for Chronic Otitis Media – the
Utility of Mouse Genetic Models**

*Steve Brown
Medical Research Council,
Harwell, Oxfordshire, United
Kingdom*

2:00 PM – 2:30 PM	Poster Viewing	<i>Indian/Bird</i>
2:30 PM - 4:00 PM	Contributed Papers Oral Presentations (Sessions A and B)	
2:30 PM - 4:00 PM	SESSION A1 ANIMAL MODELS	<i>Tarpon</i>
2:30 PM - 4:00 PM	SESSION B1 TREATMENT 3	<i>Sawyer</i>
4:00 PM - 4:30 PM	Afternoon Break	<i>Indian/Bird</i>
4:30 PM - 6:00 PM	SESSION A2 SEQUELAE/COMPLICATIONS	<i>Tarpon</i>
4:30 PM - 6:00 PM	SESSION B2 PATHOGENESIS 4	<i>Sawyer</i>
6:30 PM - 7:15 PM	Poster Session 2 and Refreshments/Reception	<i>Grand Palm Colonnade</i>
7:30 PM - 10:00 PM	Banquet Dinner	<i>Long/Bird/Indian</i>

THURSDAY, JUNE 7, 2007

7:00 AM - 6:00 PM	Registration	<i>Grand Palm Colonnade</i>
7:00 AM - 8:00 PM	Continental Breakfast	<i>Indian/Bird</i>
8:00 AM - 10:00 AM	MINI SYMPOSIUM 3 Relevance of Biofilms in Managing and Preventing OM <i>Organizers: Garth Ehrlich and Joseph Kerschner</i>	<i>Tarpon/Sawyer</i>
10:00 AM - 10:30 AM	Morning Break	<i>Indian/Bird</i>

10:30 AM – Plenary Session
12:00 PM

10:30 AM - **IMMUNOLOGY/VACCINE** *Tarpon/Sawyer*
12:00 PM

12:00 PM **Closing Remarks &
Adjournment**

DETAILED SCHEDULE

SUNDAY, JUNE 3, 2007

3:00 PM - 6:00 PM	Registration/Check In	<i>Grand Palm Colonnade</i>
3:00 PM - 6:00 PM	Poster Set-up for Session 1	<i>Indian/Bird</i>
3:00 PM - 6:00 PM	Exhibitor Set-up	<i>Long</i>
6:00 PM - 9:00 PM	Welcoming Reception	<i>Grand Palm Colonnade</i>

MONDAY, JUNE 4, 2007

7:00 AM - 6:00 PM	Registration	<i>Grand Palm Colonnade</i>
7:00 AM - 8:00 AM	Continental Breakfast/Viewing of Exhibits	<i>Grand Palm Colonnade/ Long</i>
8:00 AM - 8:30 AM	Welcome <i>David J. Lim, MD Charles D. Bluestone, MD Margaretha L. Casselbrant, MD, PhD</i>	<i>Tarpon/Sawyer</i>
8:30 AM - 8:45 AM	Special Welcome <i>Jim Boswell CEO, House Ear Institute Los Angeles, CA</i>	<i>Tarpon/Sawyer</i>
8:45 AM - 9:00 AM	Special Remark <i>James F. Battey, MD, PhD Director, NIDCD/National Institutes of Health, Bethesda, MD</i>	<i>Tarpon/Sawyer</i>
9:00 AM - 9:10 AM	Announcement of 2009 Extraordinary Otitis Media Symposium <i>Keehyun Park, Vice President, Health Affairs, Ajou University, Korea</i>	<i>Tarpon/Sawyer</i>
9:10 AM - 9:25 AM	Program Overview <i>Richard M. Rosenfeld, MD, MPH, Chair, Program Committee</i>	<i>Tarpon/Sawyer</i>
9:30 AM - 10:00 AM	SPECIAL LECTURE 1 <i>Introduction: Lauren Bakaletz</i>	<i>Tarpon/Sawyer</i>
SL01	Bacterial Genomics and the Pathogenesis of <i>Haemophilus influenzae</i> Otitis Media <i>Richard Moxon richard.moxon@paediatrics.ox.ac.uk University of Oxford, Oxford, United Kingdom</i>	

- 10:00 AM - **Morning Break**
10:30 AM
- 10:30 AM - **SPECIAL LECTURE 2** *Tarpon/Sawyer*
11:00 AM *Introduction: Jerome Klein*
- SL02 **Clinical Trials in Evaluating Antimicrobials in Acute Otitis Media**
John Powers
powersjohn@mail.nih.gov
NIH, Bethesda, MD
- 11:00 AM – **Plenary Session**
12:30 PM
- 11:00 AM – **PATHOGENESIS 1** *Tarpon/Sawyer*
12:30 PM *Moderators: Charles D. Bluestone, Mirko Tos, Keehyun Park*
- 11:00 AM **Impact of Evolution on Eustachian Tube Function**
PS01 *Charles D. Bluestone*
bluecd@chp.edu
Children's Hospital of Pittsburgh, Pittsburgh, PA
- 11:20 AM **Discussion**
- 11:30 AM **Tympanometric Findings in Young Children During Upper Respiratory Tract Infection with and without Acute Otitis Media**
PS02 *Krystal Revai kfrevai@utmb.edu*
Janak Patel, James Grady, Tasnee Chonmaitree
University of Texas Medical Branch, Galveston, TX
- 11:40 AM **Experimental Evidence That the Composition of the Nasopharyngeal Bacterial Flora Affects the Incidence of Otitis Media**
PS03 *Jennelle Kyd j.kyd@cqu.edu.au*
Ajay Krishnamurthy, John McGrath, Allan W. Cripps
Central Queensland University, Rockhampton, Qld, Australia
- 11:50 AM **Discussion**
- 12:00 PM ***Streptococcus pneumoniae* Desialylates and Degrades the Antimicrobial Peptide SPLUNC-1 as a Potential Mechanism for Immune Evasion**
PS04 *Glen McGillivray mcgillig@ccri.net*
Samantha J. King, Robert S. Munson Jr., Lauren Bakaletz
Columbus Children's Research Institute and The Ohio State University College of Medicine, Columbus, OH

12:10 PM PS05	Critical Role of LPS Sialylation in Pathogenesis of Experimental Otitis Media <i>Marisol Figueira maf6559@bu.edu</i> Sanjay Ram, Richard Goldstein, E. Richard Moxon, Derek W. Hood, Stephen I. Pelton <i>Boston University Medical Center, Boston, MA</i>	
12:20 PM	Discussion	
12:30 PM – 1:00 PM	Box Lunch/Viewing of Posters	<i>Indian/Bird</i>
1:00 PM – 2:00 PM	LUNCH-TIME SPECIAL LECTURE NIH Funding <i>Moderator: Margaretha Casselbrant</i>	<i>Tarpon/Sawyer</i>
1:00 PM LP01	Auditory System Review of Otitis Media Grant Applications <i>Edwin Clayton</i> claytone@csr.nih.gov <i>National Institutes of Health, Bethesda, MD</i>	
1:30 PM LP02	Research Opportunities Update from NIDCD/NIH <i>Bracie Watson</i> watsonb@nidcd.nih.gov <i>NIH/NIDCD, Bethesda, MD</i>	
2:00 PM - 2:30 PM	Poster Viewing	<i>Indian/Bird</i>
2:30 PM - 4:00 PM	Contributed Papers Oral Presentations (Sessions A and B)	
2:30 PM - 4:00 PM	SESSION A1 DIAGNOSIS <i>Moderators: Margaretha Casselbrant, Alberto Chinski, Paola Marchisio</i>	<i>Tarpon</i>
2:30 PM A01	Prevalence of Otitis Media in Young Children During the Respiratory Season <i>Ellen Mandel</i> Ellen.Mandel@chp.edu Cuneyt M. Alper, Ellen A. Reynolds, Birgit Winther, William J. Doyle <i>Children's Hospital of Pittsburgh, Pittsburgh, PA</i>	

2:40 PM
A02 **Diagnostic Practice and Formal Medical Education in Acute Otitis Media: An Italian Survey**
Paola Marchisio
paola.marchisio@unimi.it
Eugenio Mira, Elena Baggi,
Fabio Pagella, Monica Ragazzi,
Nicola Principi
University of Milan, Fondazione IRCCS Ospedale Maggiore Policlinico, Mangiagalli E. Regina Elena, Milan, Italy

2:50 PM
A03 **Visualization of Bacterial Cells and Glycocalyx in Biofilms**
Romain Kania
romain.kania@lrb.aphp.fr
Gerda Lamers, Marcel Vonk,
Patrice Tran Ba Huy, Pieter Hiemstra, Guido Bloemberg,
Jan Grote
Lariboisière Hospital, Paris VII University, CNRS 7060, Paris, France

3:00 PM **Discussion**

3:15 PM
A04 **Prediction of Upper Respiratory Tract Bacteria in Acute Otitis Media**
Margaretha Foglé-Hansson
margaretha.fogle-hansson@vgregion.se
Peter White, Ann Hermansson
ENT-Department, University of Lund, S-541 85 Skovde, Sweden

3:25 PM
A05 **Otological Signs Changes and Treatment Effectiveness in AOM**
Youval Slovic
albertoleib@gmail.com
Alberto Leiberman, Simon Raiz,
Marc Puterman, Ron Dagan,
Eugene Leibovitz
Soroka University Medical Center and Ben-Gurion University of the Negev, Beer-Sheva, Israel

3:35 PM
A06 **Comparison of Extended High Frequency DPAOE's and Behavioral Thresholds in Children with and without Histories of Significant Otitis Media**
Diane Sabo diane.sabo@chp.edu
Margaretha L. Casselbrant, Ellen Mandel, Marie-Lys Cattanach
Children's Hospital of Pittsburgh, Pittsburgh, PA

3:45 PM **Discussion**

2:30 PM - **SESSION B1 MICROBIOLOGY/MOLECULAR** *Sawyer*

- 4:00 PM **BIOLOGY**
*Moderators: Lauren Bakaletz,
Allen Ryan, Xin-Xing Gu*
- 2:30 PM **Rate of Acute Otitis Media
(AOM) Following Upper
Respiratory Tract Infection
(URI) by Type of Associated
Viruses**
*Tasnee Chonmaitree
Tchonmai@utmb.edu
Krystal Revai, Sangeeta Nair,
Janak Patel, Kelly Henrickson
University of Texas Medical
Branch, Galveston, TX*
- 2:40 PM **Genome-Wide Search for Otitis
Media-Associated
Pneumococcal Genes**
*Huaiqing Chen
chenj@mail.amc.edu
Yueyun Ma, Jun Yang,
Scott Lee, Jing-Ren Zhang
Albany Medical College
Albany, NY*
- 2:50 PM **Classification of PspA Families
of *Streptococcus pneumoniae*
Isolated From Children with
Acute Otitis Media**
*Masanobu Kono
mhotomi@wakayama-med.ac.jp
Muneki Hotomi, Susan
Hollingshead, David Briles,
Noboru Yamanaka
Wakayama Medical University,
Wakayama, Japan*
- 3:00 PM **Discussion**
- 3:15 PM **Continuing Shifts in the
Pathogens Causing Acute Otitis
Media in 2003-2006**
*Michael Pichichero
michael_pichichero@urmc.rochester.edu
Janet Casey, Alejandro Hoberman,
Richard Schwartz
University of Rochester School of
Medicine, Rochester, NY*
- 3:25 PM **Genetic Characteristics and
Clonal Dissemination of
 β -Lactamase Non-Producing
Ampicillin Resistant (BLNAR)
Haemophilus influenzae Isolated
from Acute Otitis Media.**
*Jun Arai
mhotomi@wakayama-med.ac.jp
Muneki Hotomi, Dewan Billal,
Masashi Ogami, Kazuma Yamauchi,
Masaki Suzumoto, Shinji Tamura,
Keiji Fujihara, Noboru Yamanaka
Wakayama Medical University,
Wakayama, Japan*

- 3:35 PM
B06 **Alloiococcus Otitidis and Biofilm in Otitis Media**
Ruth Thornton
rthornton@meddent.uwa.edu.au
Shyan Vijayasekaran, Karen Prosser, Anthony Keil, David Stroman, Selma Wiertsema, Paul Rigby, Harvey Coates, Peter Richmond
University of Western Australia, Subiaco, Australia
- 3:45 PM **Discussion**
- 4:00 PM -
4:30 PM **Afternoon Break** *Indian/Bird*
- 4:30 PM -
6:00 PM Contributed Papers Oral Presentations (Sessions A and B)
- 4:30 PM -
6:00 PM SESSION A2
EPIDEMIOLOGY/GENETICS 1 *Tarpon*
Moderators: Kathleen Daly, Kari Kvaerner, Christopher Post
- 4:30 PM
A07 **Otitis Media and Overweight in Toddlers**
Heather Nelson
nels1226@umn.edu
Kathleen Daly, Cynthia Davey, Linda M. Bartoshuk
University of Minnesota, Minneapolis, MN
- 4:40 PM
A08 **Pediatric Otitis Media Surgery and Infectious Liability in School Children**
Gunnhild Karevold
g.karevold@medisin.uio.no
Yngvild Bentdal, Per Nafstad, Kari J. Kvaerner
University of Oslo, Oslo, Norway
- 4:50 PM
A09 **A Community Based Questionnaire Study on the Association Between Symptoms Suggestive of Otitis Media with Effusion, Rhinitis and Asthma in Primary School Children.**
Dolores Umapathy
dolores.umapathy@bolton.nhs.uk
Roshini Alles, Glenis Scadding
Bolton Primary Care NHS Trust, Bolton, Greater Manchester, United Kingdom
- 5:00 PM **Discussion**

- 5:15 PM
A10 **Risk Factors, Treatments, and Other Conditions Associated with Frequent Ear Infections in U.S. Children Through 2 Years of Age: the Early Childhood Longitudinal Study-Birth Cohort (ECLS-B)**
Howard J. Hoffman
hoffmanh@nidcd.nih.gov
Jennifer Park, Katalin G. Losonczy, May S. Chiu
NIDCD, NIH, Bethesda, MD
- 5:25 PM
A11 **Otitis-Prone Children: Does the Infectious Liability Persist?**
Yngvild Bentdal
y.e.bentdal@medisin.uio.no
Gunnhild Karevold, Per Nafstad, Kari J. Kvaerner
Akershus University Hospital, University of Oslo, Norway, 1478 Lørenskog, Oslo/Akershus, Norway
- 5:35 PM
A12 **Otitis Media in Children: A Third World Experience**
Olubunmi Akinpelu
olubunmilola@yahoo.co.uk
Obafemi Awolowo University, Ile-Ife, Osun, Nigeria
- 5:45 PM **Discussion**
- 4:30 PM -
6:00 PM **SESSION B2**
PATHOGENESIS/TREATMENT 3 Sawyer
Moderators: Joseph Kershner, Timothy Jung, Yuichi Kurono
- 4:30 PM
B07 **Potential for Preventing Otitis Media as a Complication of Viral Upper Respiratory Tract Infections**
Birgit Winther
BW8B@hscmail.mcc.virginia.edu
Cuneyt M. Alper, Ellen Mandel, J. Owen Hendley, William J. Doyle
University of Virginia Health Care System, Charlottesville, VA
- 4:40 PM
B08 **Synergy of Id1 and NF-KB in the Proliferation and Migration of Cholesteatoma Keratinocytes**
Jizhen Lin linxx004@umn.edu
Yuki Hamajima, Quan-An Zhang, Ling Feng, Masahiro Komori, Shinji Fukudome, Diago Preciado, Frank Rimell, Youngki Kim
University of Minnesota, Minneapolis, MN

- 4:50 PM B09 **The Sap Transporter Is Critical for the Commensal and Pathogenic Behavior of Nontypeable *Haemophilus influenzae* (NTHi)**
Kevin Mason masonk@ccri.net
 Robert S. Munson Jr.
 Lauren Bakaletz,
 Columbus Children's Research Institute, Columbus, OH
- 5:00 PM **Discussion**
- 5:15 PM B10 **Nasopharyngeal Flora in Otitis-Prone Children**
Ann Hermansson
ann.hermansson@med.lu.se
 Marie Gisselsson-Solén,
 Ylva Lindström
 Lund University Hospital, Lund, Sweden
- 5:25 PM B11 **Myringotomy by Radiofrequency Microfiber Technique**
Klaus Vogt info@rhinovogt.de
 Med.Faculty, Univ. of Latvia, Riga, Rendsburg, Schleswig-Holstein, Germany
- 5:35 PM B12 **Sanitation of Mesopharyngeal and Retropharyngeal Space by Radiofrequency Tonsillotomy and Adenectomy**
Klaus Vogt info@rhinovogt.de
 Med.Faculty, Univ. of Latvia, Riga, Rendsburg, Schleswig-Holstein, Germany
- 5:45 PM **Discussion**
- 6:00 PM - 6:30 PM **Poster Session 1** *Indian/ Bird*
- 6:30 PM - 7:15 PM **Buffet Dinner** *Grand Palm Colonnade*
- 7:15 PM - 9:00 PM **GREAT DEBATE 1** *Tarpon*
Current Status of "Observation Option" for AOM
Moderator: Ron Dagan
- GD01 **Delayed Prescribing: A Sensible Approach to the Management of Acute Otitis Media (AOM).**
Paul Little p.little@soton.ac.uk
 University of Southampton, Southampton, Hants, United Kingdom
- GD02 **Wait and See Prescription for the Treatment of Acute Otitis Media - Benefit or Harm?**
David Spiro spirod@ohsu.edu
 Oregon Health and Science University, Portland, OR

GD03 **Current Status of the
Observation Option for AOM**
*Colin Marchant cdmarcha@bu.edu
Boston Medical Center, Boston,
MA*

GD04 **Diagnostic Inaccuracy and
Subject Exclusions Render
Placebo/Observational Studies
of AOM Inconclusive**
*Michael Pichichero
michael_pichichero@urmc.rochester.edu
University of Rochester School of
Medicine, Rochester, NY*

9:00 PM **Adjournment**

TUESDAY, JUNE 5, 2007

7:00 AM - 6:00 PM	Registration	<i>Grand Palm Colonnade</i>
7:00 AM – 8:00 AM	Continental Breakfast/Viewing of Exhibits	<i>Grand Palm Colonnade/ Long</i>
8:00 AM - 10:00 AM	MINI SYMPOSIUM 1 Molecular Pathogenesis of OM <i>Organizers: Allen Ryan and Jian-Dong Li</i>	<i>Tarpon/Sawyer</i>
8:00 AM	Introduction	
8:10 AM MS01	Molecular Basis of S. pneumoniae and H. influenzae Infections <i>Jeffrey Weiser weiser@mail.med.upenn.edu University of Pennsylvania, Philadelphia, PA</i>	
8:30 AM MS02	Role of Antimicrobial Innate Immune Molecules in Otitis Media Pathogenesis <i>David Lim dlim@hei.org House Ear Institute, Los Angeles, CA</i>	
8:50 AM MS03	Regulation of Mucin in Respiratory Tract <i>Reen Wu rwu@ucdavis.edu Daphne C. Y. Wu, Artem Loukoianov, Yin Chen, Philip Thai, Mary M. J. Chang University of California at Davis, CA</i>	
9:10 AM MS04	Regulation of Inflammation in Otitis Media <i>Jian-Dong Li Jian-Dong_Li@urmc.rochester.edu University of Rochester, Rochester, NY</i>	

9:30 AM MS05	Middle Ear Mucosal Hyperplasia and Recovery in Otitis Media <i>Allen Ryan afryan@ucsd.edu</i> Anke Leichtle, Michelle Hernandez, Kwang Pak, Stephen I. Wasserman <i>UCSD School of Medicine, La Jolla, CA</i>	
9:50 AM	Concluding Remarks	
10:00 AM - 10:30 AM	Morning Break	
10:30 AM - 11:00 AM	SPECIAL LECTURE 3 <i>Introduction: Cuneyt Alper</i>	<i>Tarpon/Sawyer</i>
SL03	Computer Modeling in Otitis Media <i>Samir Ghadiali sag3@lehigh.edu</i> <i>Lehigh University, Bethlehem, PA</i>	
11:00 AM - 12:30 PM	Plenary Session	
11:00 AM - 12:30 PM	TREATMENT 1 <i>Moderators: Richard Rosenfeld, Jan Grote, Alberto Leiberman</i>	<i>Tarpon/Sawyer</i>
11:00AM PS06	Current Trends in Research Methods (Design & Analysis) for Clinicians & Biologists <i>Mark Haggard</i> <i>mark.haggard@mrc-cbu.cam.ac.uk</i> <i>Medical Research Council, Cambridge, United Kingdom</i>	
11:20 AM	Discussion	
11:30 AM PS07	Adenoidectomy for Otitis Media with Effusion in 2-3 Year-Old Children <i>Margaretha L. Casselbrant</i> <i>margaretha.casselbrant@chp.edu</i> Ellen Mandel, Marcia Kurs-Lasky, Patricia Fall <i>Children's Hospital of Pittsburgh, Pittsburgh, PA</i>	
11:40 AM PS08	Relationship Between Persistence of Pathogens Despite Clinical Improvement or Cure (Ci/C) in Antibiotic-Treated Acute Otitis Media (Aom) and Clinical and Bacteriologic Recurrence of the Disease <i>Eugene Leibovitz</i> <i>eugenel@bgu.ac.il</i> Elad Asher, Noga Givon-Lavi, Alberto Leiberman, Ron Dagan <i>Soroka University Medical Center and Ben-Gurion University of the Negev, Beer-Sheva, Israel</i>	
11:50 AM	Discussion	

12:00 PM PS09	Efficacy of Trimethoprim-Sulfamethoxazole in Children with Active Chronic Otitis Media: A Randomized Placebo Controlled Trial <i>Erwin Van Der Veen</i> E.L.vanderVeen@umcutrecht.nl Maroeska Rovers, Frans Albers, Elisabeth Sanders, Anne Schilder <i>University Medical Center Utrecht, Utrecht, The Netherlands</i>	
12:10 PM PS10	Development of the Antimicrobial Peptide OP-145 for Chronic Otitis Media <i>Jan Grote</i> jjgrote@planet.nl Marcel Vonk, Guido Bloemberg, Marja Nell, Ruud Verrijck, Amon Wafelman, Rob Valentijn, Johan Frijns, Pieter Hiemstra, Jan Wouter Drijfhout <i>Leiden University Medical Center, Leiden, The Netherlands</i>	
12:20 PM	Discussion	
12:30 PM - 1:00 PM	Box Lunch/Viewing of Posters	<i>Indian/Bird</i>
1:00 PM - 2:00 PM	LUNCH-TIME SPECIAL LECTURE <i>Moderator: Charles D. Bluestone</i>	<i>Tarpon/Sawyer</i>
LP03	History of Serous Otitis Media <i>Robert Ruben</i> ruben@aecom.yu.edu <i>Albert Einstein College of Medicine, New York, NY</i>	
2:00 PM - 2:30 PM	Poster Viewing	<i>Indian/Bird</i>
	Contributed Papers Oral Presentation (Sessions A and B)	
	SESSION A1	
2:30 PM - 4:00 PM	EPIDEMIOLOGY/GENETICS 2 <i>Moderators: Howard Hoffman, Steve Brown, Janak Patel</i>	<i>Tarpon</i>
2:30 PM A13	The Global Burden of Childhood Otitis Media and Hearing Impairment: A Systematic Review <i>Hasantha Gunasekera</i> hgun6897@mail.usyd.edu.au Leigh Haysom, Peter Morris, Jonathan Craig <i>The Children's Hospital at Westmead, Sydney, NSW, Australia</i>	

- 2:40 PM
A14 **Laterality of Acute Otitis Media: Different Clinical and Microbiological Characteristics**
David McCormick
david.mccormick@utmb.edu
Stephanie Chandler,
Tasnee Chonmaitree
University of Texas Medical Branch, Galveston, TX
- 2:50 PM
A15 **Acute Otitis Media: The Incidence of Hospital Admissions, Surgery and Complications 1999-2005**
Kari J. Kvaerner
k.j.kvarner@medisin.uio.no
University of Oslo, Oslo, Norway
- 3:00 PM **Discussion**
- 3:15 PM
A16 **Fine Mapping of Two Loci Influencing Chronic Otitis Media with Effusion and/or Recurrent Otitis Media (COME/ROM)**
Michele Sale msale@wfubmc.edu
Peter Perlegas, Miranda Marion,
Pamela Hicks, Stephen Rich,
Kathleen Daly
Wake Forest University School of Medicine, Winston-Salem, NC
- 3:25 PM
A17 **Influence of Viruses, Host Genetics and Environment on Nasopharyngeal Cytokines During URI**
Janak Patel jpatel@utmb.edu
Sangeeta Nair, Krystal Revai,
Reuben Matalon, James Grady,
Tasnee Chonmaitree
University of Texas Medical Branch, Galveston, TX
- 3:35 PM
A18 **Mucin Gene Polymorphisms in Otitis Media Patients**
Matthew Ubell
matt.ubell@gmail.com
Joseph Kerschner, Amy Burrows
Medical College of Wisconsin, Milwaukee, WI
- 3:45 PM **Discussion**
- SESSION B1
- 2:30 PM -
4:00 PM **PATHOGENESIS 2** *Sawyer*
Moderators: Cuneyt Alper, Per Caye Thomasen, Jenelle Kyd

- 2:30 PM
B13 **The Effects of Gastroesophageal Reflux on Eustachian Tube Function, the Development of Otitis Media and the Resolution of an Induced Episode of Acute Otitis Media**
David Chi david.chi@chp.edu
Cuneyt M. Alper, Sancak Yuksel, J. Douglas Swarts
Children's Hospital of Pittsburgh, Pittsburgh, PA
- 2:40 PM
B14 **Negative Pressure-Induced Secretion of Inflammatory Mediators by Cultured Middle Ear Epithelial Cells: Relevance to Eustachian Tube Dysfunction and Otitis Media with Effusion**
Patricia Hebda hebda@pitt.edu
Mark Barsic, Tripti Singh, Joseph Dohar
Children's Hospital of Pittsburgh, Pittsburgh, PA
- 2:50 PM
B15 **Middle Ear Pressure Regulation Model**
William J. Doyle docdoyle2@aol.com
Cuneyt M. Alper
Children's Hospital of Pittsburgh, Pittsburgh, PA
- 3:00 PM **Discussion**
- 3:15 PM
B16 **Intranasal Challenge with Prostaglandin D2 and Bradykinin Increases Middle Ear to Blood Inert Gas Exchange Rates**
Sancak Yuksel Sancak.Yuksel@chp.edu
William J. Doyle, Juliane Banks, Cuneyt M. Alper
Children's Hospital of Pittsburgh, Pittsburgh, PA
- 3:25 PM
B17 **Interaction of Pneumococcal Phase Variation and Middle Ear Pressure/Gas Composition: An in Vitro Model of Otitis Media Pathogenesis**
Ha-Sheng Li-Korotky ha-sheng.li@chp.edu
Chia-Yee Lo, Juliane Banks, Fanrui Zeng, Simon Watkins, J. Douglas Swarts
Children's Hospital of Pittsburgh, Pittsburgh, PA

- 3:35 PM B18 **Trans-Mucosal Gas Exchange Rate of the Middle Ear Is Nitrogen Dependant.**
Romain Kania
romain.kania@lrb.aphp.fr
 Philippe Herman, Patrice Tran Ba Huy, Amos Ar
Lariboisière Hospital, Paris VII University, CNRS 7060 Paris, France
- 3:45 PM **Discussion**
- 4:00 PM - 4:30 PM **Break**
- SESSION A2
- 4:30 PM - 6:00 PM **TREATMENT 2** *Tarpon*
Moderators: Desiderio Passali, Tasnee Chonmaitree, Eugene Leibovitz
- 4:30 PM A19 **Efficacy of Air Inflation With/without Corticosteroids for Treating Otitis Media with Effusion**
Cuneyt M. Alper alperc@pitt.edu
 Ellen Mandel, Margaretha L. Casselbrant, William J. Doyle
Children's Hospital of Pittsburgh, Pittsburgh, PA
- 4:40 PM A20 **Treatment Outcome of Acute Otitis Media in Children Treated with a Newly Released Guideline in Japan**
Tatsuya Hayashi
thayashi@asahikawa-med.ac.jp
 Ryuki Otaka, Yusuke Abe, Yasuaki Harabuchi
Asahikawa Medical College, Asahikawa, Hokkaido, Japan
- 4:50 PM A21 **Effect of Antibiotic Choice: Changes in Antimicrobial Susceptibility and Genetic Characteristics of *Streptococcus pneumoniae* Isolated from Nasopharynx of Pediatric Patients**
Ryuki Otaka
otaka@asahikawa-med.ac.jp
 Tatsuya Hayashi, Yusuke Abe, Yasuaki Harabuchi
Asahikawa Medical College, Asahikawa, Japan
- 5:00 PM **Discussion**

- 5:15 PM
A22 **Effect of Various Corticosteroids in LPS-Induced Otitis Media**
Dusan Martin
dusanmartin@hotmail.com
J. Courtney French, Jonathan E. Zwart, Andrew Florea, Jared C. Inman, Rachelle Wareham, Choong-Won Lee, Seong Kook Park, Tammy Pham, Stanley Allen, Mark Nicosia, Derick Ly, Jerry Nguyen, Earnest O. John, Timothy T. K. Jung, Michael Wall
Loma Linda University School of Medicine and Jerry L. Pettis Veterans Medical Center, Loma Linda, CA
- 5:25 PM
A23 **What Is the Best Method of Repairing Tympanic Membrane Perforation?**
Timothy T.K. Jung
tjung1790@aol.com
You Hyun Kim, Yoon Hwan Kim, Seong Kook Park, Dusan Martin
Loma Linda University School of Medicine and Jerry L. Pettis Veterans Medical Center, Loma Linda, CA
- 5:35 PM **Discussion**
- SESSION B2
- 4:30 PM –
6:00 PM **BIOCHEMISTRY/IMMUNOLOGY** Sawyer
Moderators: Steve Juhn, Masashi Suzuki, Yasuaki Harabuchi
- 4:30 PM
B19 **Effect of Inflammatory Mediators on the Inner Ear**
Steven Juhn juhn001@umn.edu
Bo Hyung Kim, Min-Kyo Jung, Ji-Eun Lee, Patricia Schachern, Michael Paparella
University of Minnesota, Minneapolis, MN
- 4:40 PM
B20 **The Effects of Plasminogen Deficiency on the Healing of Tympanic Membrane Perforations**
Annika Hansson
annika.hansson@ent.umu.se
Jinan Li, Per-Olof Eriksson, Tor Ny, Diana Berggren, Sten Hellström
Clinical Science, Umea, Sweden

- 4:50 PM
B21 **Analysis of the Cellular Immune Responses to Influenza a Virus Infection in the Middle Ear**
Takashi Hirano
thirano@med.oita-u.ac.jp
Mai Tomiguchi, Hideaki Mabuchi, Satoru Kodama, Masashi Suzuki
Faculty of Medicine, Oita University, Yufu, Oita, Japan
- 5:00 PM **Discussion**
- 5:15 PM
B22 **Cytokine Profile of Nasopharyngeal T Cells in Ags-Epcific Mucosal Immune Response**
Takaya Yamada
kawauchi@med.shimane-u.ac.jp
Miki Tongu, Hideyuki Kawauchi, Kazuhiro Hashigucci
Shimane Unversity, School of Medicine, Izumo City, Japan
- 5:25 PM
B23 **CD14, MyD88 and Toll-Like Receptor-2 and -4 Polymorphisms Do Not Predispose to Chronic Active Otitis Media in Children**
Erwin Van Der Veen
E.L.vanderVeen@umcutrecht.nl
Anne Schilder, Maroeska Rovers, Ger Rijkers, Henk Ruven, Kors Van Der Ent, Elisabeth Sanders
University Medical Center Utrecht, The Netherlands
- 5:35 PM **Discussion**
- 6:00 PM -
6:30 PM **Poster Viewing and Refreshments** *Indian/Bird*
- 6:30 PM -
7:15 PM **Buffet Dinner** *Grand Palm Colonnade*
- 7:15 PM -
9:00 PM **GREAT DEBATE 2** *Tarpon*
Which Child Benefits Most From Tympanostomy Tubes?
Moderator: Richard M. Rosenfeld
- GD05 **Which Children Benefits Most from Tympanostomy Tubes (Grommets)?**
Jorgen Lous jlous@health.sdu.dk
University of Southern Denmark, Odense C, Denmark
- GD06 **Which Child Benefits from Tympanostomy Tubes?**
Robert Ruben
ruben@aecom.yu.edu
Albert Einstein College of Medicne, New York, NY

GD07 **Towards a Balanced Synthesis
on Surgical Intervention in OME**
Mark Haggard
mark.haggard@mrc-cbu.cam.ac.uk
*Medical Research Council,
Cambridge, United Kingdom*

GD08 **Predictors of Chronic
Suppurative Otitis Media in
Children**
Anne Schilder
a.schilder@umcutrecht.nl
*Erwin Van Der Veen, Niels Van
Heerbeek, Gerhard Zielhuis,
Maroeska Rovers*
*University Medical Center Utrecht,
The Netherlands*

9:00 PM **Adjournment**

WEDNESDAY, JUNE 6, 2007

7:00 AM - 6:00 PM	Registration	<i>Grand Palm Colonnade</i>
7:00 AM - 8:00 AM	Continental Breakfast/Viewing of Exhibits	<i>Grand Palm Colonnade/ Long</i>
8:00 AM - 10:00 AM	MINI SYMPOSIUM 2 New Concepts in OM Vaccines <i>Organizers: Stephen Pelton, Stephen Barenkamp</i> <i>Moderators: Pearay Orga</i>	<i>Tarpon/Sawyer</i>
8:00 AM	Introduction	
8:10 AM MS06	Top-Down Bottom-Up Phylogenic Approach for Early Stage Vaccine Development <i>Richard Goldstein</i> genetics@bu.edu <i>Valerie Bouchet, Magali Leroy, Heather Huot, Marisol Figueira, Sanjay Ram, Stephen I. Pelton</i> <i>Boston University Medical Center, Boston, MA</i>	
8:35 AM MS07	Protein D of <i>Haemophilus influenzae</i> – The Antigenic Potential of a Carrier Protein <i>Anne Forsgren</i> arne.forsgren@med.lu.se <i>Kristian Riesbeck, Håkan Janson</i> <i>Lund University, Malmö, Sweden</i>	
9:00 AM MS08	Pneumococcal Proteins as Vaccine Candidates <i>Larry S. McDaniel</i> lmcdaniel@microbio.umsmed.edu <i>University of Mississippi Medical Center, Jackson, MS</i>	

9:25 AM MS09	The Role of Viruses in Otitis Media <i>Peter Wright</i> peter.wright@vanderbilt.edu Vanderbilt, Nashville, TN	
9:50 AM	Closing Remarks	
10:00 AM	Break	
10:30 AM - 11:00 AM	SPECIAL LECTURE 4 <i>Introduction: Tasnee Chonmaitree</i>	<i>Tarpon/Sawyer</i>
SL04	The Role of Viruses in Otitis Media <i>Terho Heikkinen</i> terho.heikkinen@utu.fi Turku University Hospital, Turku, Finland	
	Plenary Session	
11:00 AM - 12:30 PM	VACCINE <i>Moderators: Pearay Ogra, Jerome Klein, Noboru Yamanaka</i>	<i>Tarpon/Sawyer</i>
11:00 AM PS11	Vaccines for Otitis Media: Mining the <i>Moraxella catarrhalis</i> Genome <i>Timothy Murphy</i> murphyt@buffalo.edu Charmaine Kirkham, Elizabeth Ruckdeschel, Alan Lesse University at Buffalo, State University of New York, Buffalo, NY	
11:10 AM PS12	Promiscuous Epitope Peptides of P6 Outer Membrane Protein of Non Typeable <i>Haemophilus influenzae</i> <i>Yusuke Abe</i> yabe@asahikawa-med.ac.jp Yuka Nomura, Yoshiya Ishida, Ryuki Otaka, Tatsuya Hayashi, Yasuaki Harabuchi Asahikawa Medical College, Asahikawa, Hokkaido, Japan	
11:20 AM PS13	Construction and Immunogenicity of Recombinant Adenovirus Vectors Expressing the HMW or Hia Adhesion Proteins of Nontypeable <i>Haemophilus influenzae</i> <i>Stephen Barenkamp</i> barenksj@slu.edu St. Louis University School of Medicine, St. Louis, MO	
11:30 AM	Discussion	

11:45 AM PS14	Nasal Vaccination with New DNA Adjuvants Elicit Long Lasting Immunity Mediated by Both Th1- And Th2-Type Cytokine and NALT Dendritic Cells	<i>Tatsuya Fukuiwa</i> <u>silvian@m2.kufm.kagoshima-u.ac.jp</u> Kohtaro Fujihashi, Jerry R. McGhee, Yuichi Kurono <i>Kagoshima University, Kagoshima, Japan</i>
11:55 AM PS15	Intranasal Immunization with LB1 Induces Maturation and Subsequent Migration of Chinchilla Respiratory Dendritic Cells to Local Lymphoid Tissues	<i>Laura Novotny novotnyl@ccri.net</i> Santiago Partida-Sanchez, Lauren Bakaletz, <i>Columbus Children's Research Institute and the Ohio State University College of Medicine, Columbus, OH</i>
12:05 PM PS16	Intranasal Immunization with Phosphorylcholine Enhanced the Clearance of <i>S. pneumoniae</i> and Nontypeable <i>H. influenzae</i> from the Nasal Cavity.	<i>Norimitsu Tanaka</i> <u>noritan@m3.kufm.kagoshima-u.ac.jp</u> Satoshi Fukuyama, Tatsuya Fukuiwa, Masaki Kawabata, Yuichi Kurono <i>Kagoshima University, Kagoshima, Japan</i>
12:15 PM	Discussion	
12:30 PM - 1:00 PM	Box Lunch/Viewing of Posters	<i>Grand Palm Colonnade</i>
1:00 PM - 2:00 PM	LUNCH-TIME SPECIAL PRESENTATION Topic: Animal Models for OM <i>Moderator: David Lim</i>	<i>Tarpon/Sawyer</i>
1:00 PM LP04	An Animal Model for the Study of Otitis Media <i>Stephen I. Wasserman</i> <u>swasserman@ucsd.edu</u> Anke Leichtle, Michelle Hernandez, Allen Ryan <i>UC San Diego, La Jolla, CA</i>	

1:30 PM
LP05 **Elucidating Genetic Pathways
for Chronic Otitis Media – the
Utility of Mouse Genetic Models**
Steve Brown
s.brown@har.mrc.ac.uk
*Medical Research Council,
Harwell, Oxfordshire, United
Kingdom*

Contributed Papers Oral
Presentation (Sessions A and B)

SESSION A1

2:30 AM - **ANIMAL MODELS** *Tarpon*
4:00 PM
*Moderators: Dennis Trune, Ann
Hermansson, Karin Stenfeldt*

2:30 PM
A24 **Genetic Pathways for Chronic
Otitis Media – Identification of
Mouse Models and
Characterisation of the
Underlying Genes**
Steve Brown
s.brown@har.mrc.ac.uk
*Rachel Hardisty-Hughes, Hilda
Tateossian, Jiewu Yang,
Susan Morse*
*Medical Research Council,
Harwell, Oxfordshire, United
Kingdom*

2:40 PM
A25 **Molecular Pathogenesis of Otitis
Media in a Mouse Model with the
Hypophosphatemia-Duke
Mutation (PhexHyp-Duk)**
Jiang Ping Zhang
jzhang@med.wayne.edu
Christopher McCarty, Qing Zheng
*Wayne State University,
Detroit, MI*

2:50 PM
A26 **Characterization of
Experimental Otitis Media with
Effusion in the Mouse**
Sancak Yuksel
sancak.yuksel@chp.edu
*Juliane Banks, Per-Olof Eriksson,
Mark Barsic, Joseph Dohar,
Patricia Hebda*
*Children's Hospital of Pittsburgh,
Pittsburgh, PA*

3:00 PM **Discussion**

3:15 PM
A27 **Otitis Media in a Mouse with
Viable Motheaten Mutation**
Qing Zheng qyz@case.edu
*Jiang Ping Zhang ,
Christopher McCarty, Heping Yu*
*Case Western Reserve University,
Cleveland, OH*

- 3:25 PM
A28 **Otitis Media in a Mouse with a Mutation in Ptpn6**
Jiang Ping Zhang
jzhang@med.wayne.edu
Christopher McCarty, Qing Zheng
Wayne State University,
Detroit, MI
- 3:35 PM
A29 **Histomorphometric Estimation of Air Cell Development in Exp. Induced Otitis Media**
Kristianna Mey
meymorch@privat.dk
Mads Sølvsten Sørensen,
Preben Homoe
Hillerød Sygehus, 3400 Hillerød,
Denmark
- 3:45 PM **Discussion**
- SESSION B1
- 2:30 PM -
4:00 PM **TREATMENT 3** Sawyer
Moderators: Anne Schilder, Mark Haggard, Tania Sih
- 2:30 PM
B24 **Simple Tympanotomy or Grommet Insertion in Chronic Secretory Otitis Media - A 25-Year Follow-Up on Ear Drum Pathology, Hearing and Eustachian Tube Function**
Per Caye-Thomasen
peca@geh.regionh.dk
Sven-Eric Stangerup, Gita Jørgensen, Dominika Drozdziwicz, Per Bonding, Mirko Tos
Gentofte University Hospital of Copenhagen, DK-2900 Hellerup, Denmark
- 2:40 PM
B25 **Ventilation Tubes in OME Benefit Development in Older But Not Younger Children**
Mark Haggard
mark.haggard@mrc-cbu.cam.ac.uk
Helen Spencer
Medical Research Council,
Cambridge, Cambs, United Kingdom
- 2:50 PM
B26 **Tympanostomy Tube Outcomes in Children At-Risk and Not-At-Risk for Developmental Delays**
Richard Rosenfeld
richrosenfeld@msn.com
David Jang, Konstantin Tarashansky
Long Island College Hospital,
Brooklyn, NY
- 3:00 PM **Discussion**

- 3:15 PM
B27 **Does the Benefit of Adenoidectomy with Ventilation Tube Insertion Persist Long-Term?**
*Mat Daniel m-daniel@runbox.com
Herbie Vaghela, Carl Philpott, Rsa Thomas, Mary M. Gannon, Helen Spencer, Mark P. Haggard
University Hospital Leicester,
Leicester, United Kingdom*
- 3:25 PM
B28 **Tube Associated Otorrhea in Children with Recurrent Otitis Media; Results of a Prospective Randomized Treatment Study**
*Anna Granath
anna.granath@karolinska.se
Karin Lindberg,
Britta Rynnel-Dagöö
CLINTEC Karolinska Institutet,
Stockholm, Sweden*
- 3:35 PM
B29 **Effect of Round Window Membrane Application of Dornase Alfa on Cochlear Function**
*Kenny H. Chan
chan.kennyh@tchden.org
Jonathan E. Zwart, Todd Miller, J. Courtney French, Dusan Martin, You Hyun Kin, Yoon Hwan Kim, Tiffany Lo, Christopher Le, Choong-Won Lee, Stanley Allen, Tammy Pham, Mark Nicosia, Derick Ly, Jerry Nguyen, Earnest O. John, Timothy T.K. Jung
Loma Linda University School of Medicine and Jerry L. Pettis Veterans Medical Center, Loma Linda, CA*
- 3:45 PM **Discussion**
- 4:00 PM -
4:30 PM **Afternoon Break** *Indian/Bird*
- SESSION A2
- 4:30 PM -
6:00 PM **SEQUELAE/COMPLICATIONS** *Tarpon*
*Moderators: Pekka Karma,
Sten Hellström, Haruo Takahashi*
- 4:30 PM
A30 **Incidence of Acute Otitis Media and Sinusitis Complicating Upper Respiratory Tract Infection: The Effect of Age**
*Krystal Revai kfrevai@utmb.edu
Laura Dobbs, Sangeeta Nair, Janak Patel, James Grady, Tasnee Chonmaitree
University of Texas Medical Branch, Galveston, TX*

- 4:40 PM
A31 **Mastoiditis Before and After New Treatment Recommendations for AOM**
Karin Stenfeldt
Karin.Stenfeldt@telia.com
Ann Hermansson
Malmö University Hospital, Malmö, Sweden
- 4:50 PM
A32 **Retraction Pockets of the Pars Tensa in Children: Evolution and Treatment.**
Pasquale Cassano
p.cassano@unifg.it
Desiderio Passali
ORL Foggia, Foggia, Italy
- 5:00 PM **Discussion**
- 5:15 PM
A33 **Developmental Impact of OM(E): Real But Restricted**
Mark Haggard
mark.haggard@mrc-cbu.cam.ac.uk
Helen Spencer
Medical Research Council, Cambridge, United Kingdom
- 5:25 PM
A34 **What Is the Diagnostic Value of Parental Information About Language Development in Children with Otitis Media with Effusion**
Maj-Britt G Lauritsen
m.g.lauritsen@dadlnet.dk
Margareta Soderstrom, Per Jensen, Jorgen Lous
University of Copenhagen, Copenhagen, Denmark
- 5:35 PM
A35 **Otitis Media, an Indication for Dentofacial Growth Abnormality Assessment.**
Peyman Nejatbakhsh Azadani
drpeyman103@hotmail.com
Elnaz Jafarimehr, Aman Ghoujehgi, Amir Naghdi Sede
Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 5:45 PM **Discussion**
- SESSION B2
- 4:30 PM -
6:00 PM **PATHOGENESIS 4** Sawyer
Moderators: Joseph Dohar, Yukiko Iino
- 4:30 PM
B30 **Role of Extra-Esophageal Reflux in Chronic Otitis Media with Effusion**
Matthew Crapko
mcrapko@mcw.edu
Joseph Kerschner, Michael Syring, Nikki Johnston
Medical College of Wisconsin, Wauwatosa, WI

- 4:40 PM B31 **In Vitro Formation of NTHi Biofilms**
Paul Webster pwebster@hei.org
 Siva Wu
*House Ear Institute,
 Los Angeles, CA*
- 4:50 PM B32 **Bactericidal Efficacies of Azithromycin on Nontypeable *Haemophilus influenzae* Adhered to and Invaded Cultured Human Epithelial Cells.**
Muneki Hotomi
mhotomi@wakayama-med.ac.jp
 Keiji Fujihara, Shinji Tamura,
 Sekie Saito, Tsutomu Tomita,
 Dewan Billal, Noboru Yamanaka
*Wakayama Medical University,
 Wakayama, Japan*
- 5:00 PM **Discussion**
- 5:15 PM B33 **The Pediatric Draining Ear-From Bench to Patient: An Update**
Joseph E. Dohar
joseph.dohar@chp.edu
*Children's Hospital Pittsburgh,
 Pittsburgh, PA, USA*
- 5:35 PM **Discussion**
- 6:30 PM - 7:15 PM **Poster Session 2 and Refreshments/Reception** *Grand Palm Colonnade*
- 7:30 PM - 10:00 PM **Banquet Dinner** *Tarpon/Sawyer*

THURSDAY, JUNE 7, 2007

- 7:00 AM - 6:00 PM **Registration** *Grand Palm Colonnade*
- 7:00 AM - 8:00 PM **Continental Breakfast** *Indian/Bird*
- 8:00 AM - 10:00 AM **MINI SYMPOSIUM 3** *Tarpon/Sawyer*
Relevance of Biofilms in Managing and Preventing OM
Opening Remarks
Organizers: Garth Ehrlich and Joseph Kerschner
- 8:00 AM MS10 **The Biofilm Paradigm and the Distributed Genome Hypothesis Provide a Useful Rubric for the Study of Chronic Bacterial Infections Such as Otitis Media with Effusion**
Garth Ehrlich gehrlich@wpahs.org
Allegheny-Singer Research Institute, Pittsburgh, PA

- 8:10 AM MS11 **The Ying and Yang of Quorum Sensing in *Pseudomonas Aeruginosa* Biofilms**
Barbara Iglewski
Barbara_Iglewski@URMC.Rochester.edu
 University of Rochester Medical Center, Rochester, NY
- 8:27 AM MS12 **Chronic Otitis Media as a Biofilm Disease**
Joseph Kerschner
kersch@mcw.edu
 Medical College of Wisconsin/Children's Hospital of Wisconsin, Milwaukee, WI
- 8:44 AM MS13 **Pharyngeal Colonization Dynamics of *Haemophilus influenzae***
Janet Gilsdorf gilsdorf@umich.edu
 University of Michigan, Ann Arbor, MI
- 9:01 AM MS14 **The Biofilm Formed by Nontypeable *Haemophilus influenzae* in the Middle Ear of the Chinchilla During Experimental Otitis Media Contains DsDNA and Type IV Pilin Protein**
Joseph Jurecisek jurecisej@ccri.net
 Lauren Bakaletz
 Columbus Children's Research Institute, Columbus, OH
- 9:18 AM MS15 **Biofilms as Bacterial Breeding Grounds: A Counterpoint to the Adaptive Host Response**
Fen Hu fhu@wpahs.org
 Justin Hogg, Luisa Hiller, Benjamin Janto, Robert Boissy, J. Christopher Post, Garth Ehrlich
 Allegheny Singer Research Institute, Pittsburgh, PA
- 9:35 AM MS16 **Integration of Basic Research Findings Into a Clinical Model That Explains the Persistence of Biofilms**
J.Christopher Post
cpost@wpahs.org
 Allegheny General Hospital, Pittsburgh, PA
- 9:52 AM **Concluding Remarks**
- 10:00 AM - 10:30 AM **Morning Break** *Indian/Bird*
- Plenary Session
- 10:30 AM - 12:00 PM **IMMUNOLOGY/VACCINE** *Tarpon/Sawyer*
 Moderators: Stephen Pelton, Timothy Murphy, Hideyuki Kawauchi

- 10:30 AM
PS17 **Immune Regulation of Chemokine and Cytokine Responses Following Nontypeable *Haemophilus influenzae* (NTHi) Infection**
Allan W. Cripps
allan.cripps@griffith.edu.au
Jodie Clarke, A. Ruth Foxwell,
Jennelle Kyd
Griffith University, Gold Coast, Queensland, Australia
- 10:40 AM
PS18 **Role of Toll-Like Receptors in Persistent Inflammation of Upper Respiratory Tract and Its Clinical Implication**
Hideyuki Kawauchi
hide101612857kimi@feel.ocn.ne.jp
Shimane University, School of Medicine, Izumo City, Japan
- 10:50 AM
PS19 **Outer Membrane Vaccine Candidate Targets Against NTHi**
Valérie Bouchet valbouch@bu.edu
Stephen I. Pelton,
Richard Goldstein
Boston University Medical Center, Boston, MA
- 11:00 AM **Discussion**
- 11:15 AM
PS20 **A Single Nasal Dose of Flt3 Ligand Enhances Mucosal Immune Responses in the Nasopharynx**
Satoru Kodama
satoruk@med.oita-u.ac.jp
Takashi Hirano, Nobuyuki Abe,
Masashi Suzuki
Oita University Faculty of Medicine, Yufu, Oita, Japan
- 11:25 AM
PS21 **Intranasal Immunization with Phosphorylcholine Reduced Type I Allergic Responses in Mice**
Yuichi Kurono
u196kuro@m2.kufm.kagoshima-u.ac.jp
Norimitsu Tanaka, Satoshi Fukuyama, Keiichi Miyashita
Kagoshima University, Kagoshima, Japan
- 11:35 AM **Discussion**
- 12:00 PM **Closing Remarks & Adjournment**

POSTER SESSION 1

DIAGNOSIS

- P1 **Hearing in Unilateral Cleft Lip and Palate Children**
Jadranka Handzic
jadranka.hanadzic-cuk@usa.net
Medical School Zagreb, University Hospital Center, Zagreb, Croatia
- P2 **Investigation of Eustachian Tube Function in Chronic Otitis Media with Cholesteatoma**
Kenji Noda
k-noda@med.oita-u.ac.jp
Takashi Hirano, Masashi Suzuki
Oita University Faculty of Medicine, Yufu, Oita, Japan
- P3 **Validity, Reliability and Acceptance of the Galker Test of Speech Reception in Noise for Danish Preschool Children**
Maj-Britt G. Lauritsen
m.g.lauritsen@dadlnet.dk
Svend Kreiner, Margareta Soderstrom, Jens Dorup, Jorgen Lous
University of Copenhagen, Copenhagen K, Denmark
- P4 **Telemedicine and Digital Imaging as Tools to Study Inflammatory Conditions in Middle Ear - A Method Study**
Thorbjorn Lundberg
thorbjorn.lundberg@fammed.umu.se
Goran Westman, Sten Hellström, Herbert Sandstrom
Family Medicine, Umea University, Umea, Sweden
- P5 **Convenient Method to Measuring Ventilatory Function of the Eustachian Tube; Preliminary Study of Updated Sonotubometry(SNT) and Valsalva Maneuver(VA) in Tubo-Tympanum-Aero-Dynamography(TTAG)**
Tomoko Tsutsumi
tomoko-tsutsumi829@yahoo.co.jp
Masahiro Morita, Naoyuki Kohno
Kyorin University School of Medicine, Mitaka, Tokyo, Japan

P6 **Prevalence of Acute Otitis Media Among Children with Pyrexia in a Nigerian Hospital**
Alabi Sulyman
alabibs@yahoo.com
University of Ilorin Teaching Hospital, Ilorin-Nigeria, Ilorin, Kwara, Nigeria

EPIDEMIOLOGY/GENETICS

P7 **Burden of Otitis in Dutch Children \leq 4 Years Old: An Analysis of the 2005 Linh Database**
Anouk Speets
speets@pallas-healthresearch.com
Judith Wolleswinkel, Robert Verheij, Suzanne Laplante
Pallas Health Research, Rotterdam, The Netherlands

P8 **Otitis Media as a Cause of Significant Hearing Loss Among Nigerians**
Abiodun Olusesi
biodun@nanootology.org
National Hospital, Abuja, FCT, Nigeria

VACCINE/MICROBIOLOGY

P9 **Protection of Pneumococcal Infection by Maternal Intranasal Immunization with Pneumococcal Surface Protein a (PspA)**
Toshiki Katsurahara
ynobi@wakayama-med.ac.jp
Muneki Hotomi, Kazuma Yamauchi, Masaki Suzumoto, Dewan Billal, David Briles, Susan Hollingshead, Noboru Yamanaka
Wakayama Medical University, Wakayama, Japan

P10 **Maternal Intranasal Immunization with Outer Membrane Protein P6 Maintain Specific Antibody Level of Derived Offspring**
Kazuma Yamauchi
kazuma@wakayama-med.ac.jp
Muneki Hotomi, Masaki Suzumoto, Dewan Billal, Noboru Yamanaka
Wakayama Medical University, Wakayama, Japan

P11 **Evidence of Biofilm in Chronic Suppurative Otitis Media in Greenland**
Preben Homoe phom@rh.dk
Rigshospitalet, University Hospital of Copenhagen, Copenhagen, Denmark

- P12 **Association Between
Nasopharyngeal Bacterial
Colonization During Upper
Respiratory Infection and Acute
Otitis Media**
Dheeresh Mamidi
docmamidi@yahoo.com
Krystal Revai, Tasnee
Chonmaitree
*University of Texas Medical
Branch, Galveston, TX*
- P13 **Bilateral Acute Otitis Media
(BAOM): Epidemiologic,
Microbiologic and Clinical
Characteristics and Comparison
with Unilateral Acute Otitis
Media (UAOM)**
Eugene Leibovitz
eugenel@bgu.ac.il
Elad Asher, Noga Givon-Lavi,
Robert Satran, Alberto Leiberman,
Ron Dagan
*Soroka University Medical Center
and Ben-Gurion University of the
Negev, Beer-Sheva, Israel*
- P14 **Rapid Emergence of
Multiresistant Pneumococcal
Strains Replacing Those Included
in the 7 Valent Conjugate Vaccine
as Causative Otopathogens in US
Children: Implications for
Antibiotic Selection and
Economic Burden of Disease**
Janet Casey
jrcasey@rochester.rr.com
Michael Pichichero
*Elmwood Pediatric Group,
Rochester, NY*
- P15 **Galactose Residues on
Lipooligosaccharide (LOS) from
Moraxella catarrhalis Form the
Epitopes Recognized by
Antibodies from the Serotype C
Conjugate Vaccine**
Shengqing Yu yus@nidcd.nih.gov
Xin-Xing Gu
NIDCD/NIH, Rockville, MD
- P16 **Detection of Respiratory Virus in
Acute Otitis Media**
Masashi Ogami
mhotomi@wakayama-med.ac.jp
Muneki Hotomi, Yosuke Kamide,
Yoshifumi Uno, Masato Ito, Seiji
Kakehata, Noriyo Kudo, Rinya
Sugita, Yukiko Goto, Gen Sugita,
Keijko Kanesada, Kazuma
Yamauchi, Masaki Suzumoto,
Dewan Billal, Noboru Yamanaka,
*Wakayama Medical University,
Wakayama, Japan*

P17 **Methicillin-Resistant
Staphylococcus Aureus
Otorrhea in Chronic Suppurative
Otitis Media – a Multicenter
Study**
*Il Ho Shin 1-tiger@hanmail.net
Sun Kyu Lee, Seung Geun Yeo,
Chang IL Cha, Ding Choon Park
Kyung Hee University, Seoul,
Korea*

BIOCHEMISTRY/MOLECULAR BIOLOGY

P18 **Molecular Biological Study of
Infectious Mechanism of
Nontypeable *H. influenzae* in
Conjunctivitis-Otitis Media
Syndrome in Young Children**
*Rinya Sugita
ynobi@wakayama-med.ac.jp
Gen Sugita, Tosinari Funaki,
Dewan Billal, Muneki Hotomi,
Noboru Yamanaka
Wakayama Medical University,
Wakayama, Japan*

P19 **Molecular Biological Study of
Infectious Mechanism of
S.pneumoniae in Conjunctivitis-
Otitis Media Syndrome in Young
Children**
*Gen Sugita
ynobi@wakayama-med.ac.jp
Rinya Sugita, Tosinari Funaki,
Dewan Billal, Muneki Hotomi,
Noboru Yamanaka
Wakayama Medical University,
Wakayama, Japan*

P20 **Expression of Lysozyme in the
Rat Eustachian Tube and Middle
Ear**
*Sung-Ho Kang kkdin@kku.ac.kr
Shuji Ohcho, Haa-Yung Lee,
David Lim
Konkuk University, Chungju, Korea*

P21 **DNA Microarray Analysis of
Otitis Media**
*Michelle Hernandez
chelita76@hotmail.com
Anke Leichtle, Kwang Pak,
Nicholas Webster, Stephen I.
Wasserman, Allen Ryan
University of California, San Diego,
La Jolla, CA*

P22 **Distribution of Collagens in
Healthy Human Tympanic
Membranes**
*Johan Knutsson
jk1jk2@yahoo.com
Magnus Von Unge
ENT-Dept, Vasteras, Sweden,
Sweden*

PATHOGENESIS/TREATMENT

- P23 **Expression of Platelet-Activating Factor Receptor and Nitric Oxide Synthases in Adenoid Tissues of Children with Middle Ear Effusion**
Kyung Wook Heo
heokw96@kornet.net
Seong Kook Park, Sae Gwang Park
Inje University School of Medicine, Busan Paik Hospital, Busan, Korea
- P24 **Antibodies Directed Against the Type IV Pilus Protein of Nontypeable *Haemophilus influenzae* Can Prevent or Reverse Biofilms Formed In Vitro**
Molly Bruggeman
bruggemm@ccri.net
Joseph Jurcisek, Lauren Bakaletz
Columbus Children's Research Institute, Columbus, OH
- P25 **Format and Compliance in a Study to Investigate the Relationship Between Viral Upper Respiratory Tract Infections and Otitis Media**
Ellen A. Reynolds
eareynolds@comcast.net
Cuneyt M. Alper, Ellen Mandel, Birgit Winther, James T. Seroky, Kathy K. Tekely, William J. Doyle
Children's Hospital of Pittsburgh, Pittsburgh, PA
- P26 **Modulation of Cytokine Activity in Middle Ear by Formalin-Killed *Haemophilus influenzae* or Its Lipooligosaccharide HtrB and RfaD Mutants During Acute Otitis Media in the Rat**
Hua Hua Tong tong.1@osu.edu
Thomas F. DeMaria
The Ohio State University, Columbus, OH
- P27 **Nasopharyngeal Biofilm Density in the Pediatric Nasopharynx: Otitis Media with Effusion Versus Recurrent Acute Otitis Media and Obstructive Sleep Apnea**
James M. Coticchia
jcoticch@med.wayne.edu
Michael Hoa, Lauren Dew, Lisa Christensen
Wayne State University, Detroit, MI

- P28 **Detection of *Helicobacter pylori* in Middle Ear Fluids in Patients with Otitis Media with Effusion**
Keehyun Park parkkh@ajou.ac.kr
 Yun-Hoon Choung, Hun Yi Park,
 Sang Eun Lee, Choi Sung Jun
*Ajou University School of
 Medicine, Suwon, Gyeonggi-Do,
 Korea*
- P29 **Production of Biofilm by *Haemophilus influenzae* Isolated from Children with Intractable Otitis Media**
Satomi Moriyama
ynobi@wakayama-med.ac.jp
 Muneki Hotomi, Masaki Suzumoto,
 Kazuma Yamauchi, Dewan Billal,
 Noboru Yamanaka
*Wakayama Medical University,
 Wakayama, Japan*
- P30 **Gas Loss from the Middle Ear in Normal and Inflammatory Conditions : The Role of Mucosa Thickness and Blood Flow**
Amos Ar aarah@post.tau.ac.il
 Philippe Herman, Eric Lecain,
 Michel Wassef, Patrice Tran Ba
 Huy, Romain Kania
*Faculty of Life Sciences, Tel Aviv
 University, Tel Aviv, Israel*
- P31 **Entry Into and Survival of Non-Typeable *Haemophilus influenzae* in Epithelial Cells**
Paul Webster pwebster@hei.org
*House Ear Institute, Los Angeles,
 CA*
- P32 **CD14-Dependent Upregulation of IC AM-1 in Human Monocytes by *Moraxella catarrhalis* Lipooligosaccharide**
Hang Xie Xiehan@nidcd.nih.gov
 Xin-Xing Gu
NIDCD, Rockville, MD
- P33 **Seasonality of Allergy in Patients With Chronic OME**
David Hurst mear43@gmail.com

PATHOLOGY/PHYSIOLOGY

- P34 **Early Inflammatory Cell Response to Myringotomy in Otitis Media with Effusion**
Jorge Spratley
j.spratley@mail.telepac.pt
 Sten Hellström, Pedro Marques,
 Cathrine Johansson
*University of Porto Medical School,
 Porto, Portugal*

- P35 **Matrix Metalloproteinase 9 Does Not Affect the Healing of Tympanic Membrane Perforations**
Cathrine Johansson
cathrine.johansson@ent.umu.se
Per-Olof Eriksson, Jinan Li, Tor Ny, Sten Hellström
Umeå University, Umeå, Sweden
- P36 **Effect of Pneumococcal Proteins on the Inner Ear**
Patricia Schachern
schac002@umn.edu
Vladimir Tsuprun, Sebahattin Cureoglu, Patricia Ferrieri, Michael Paparella, Steven Juhn
University of Minnesota, Minneapolis, MN
- P37 **Immunohistochemical Study of the Effect of 5-Fluorouracil (5-FU) on Cholesteatoma**
Tomomi Yamamoto-Fukuda
tomomiyf@net.nagasaki-u.ac.jp
Mariko Terakado, Yoshitaka Hishikawa, Takehiko Koji, Haruo Takahashi
Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan
- P38 **Eustachian Tube Form/Function in Cleft Lip and Palate**
Anil Gungor
anil.gungor@anadolusaglik.org
William J. Doyle, J. Douglas Swarts
Anadolu Foundation Healthcare System, Cayirova Mevkii, Turkey
- P39 **Interspecies Comparisons of Eustachian Tube Flow Patterns During Swallowing in the Forced Response Test**
J. Douglas Swarts
dswarts@pitt.edu
Samir Ghadiali
Children's Hospital of Pittsburgh, Pittsburgh, PA

POSTER SESSION 2

ANIMAL MODEL

- P40 **Glucocorticoid and Mineralocorticoid Suppression of Acute Otitis Media in the Mouse**
Carol MacArthur
macarthc@ohsu.edu
Beth Kempton, Dennis Trune
OHSU, Portland, OR
- P41 **Effects of Low-Intensity Focused Ultrasound on the Mouse Middle Ear**
Kanako Noda
oribe716@med.oita-u.ac.jp
Takashi Hirano, Masashi Suzuki
Oita University Faculty of Medicine, Oita, Japan
- P42 **Efficacy of a Novel Oral Carbapenem, Tebipenem Pivoxil (TBM-PI), Against Experimental Otitis Media Caused by Penicillin Resistant *Streptococcus pneumoniae* in Chinchilla**
Masaki Suzumoto
suzumoto@wakayama-med.ac.jp
Muneki Hotomi, Koju Itahashi, Jun Nagura, Takayoshi Fukuyama, Keiji Fujihara, Noboru Yamanaka
Wakayama Medical University, Wakayama, Japan
- P43 **Regulation of TGF- β Signalling by Fbxo11 – the Gene Mutated in the Jeff Otitis Media Mouse.**
Hilda Tateossian
h.tateossian@har.mrc.ac.uk
Rachel Hardisty-Hughes, Susan Morse, Steve Brown
Medical Research Council, Harwell, Oxfordshire, United Kingdom
- P44 **Fbxo11, Mutated in the OM Mouse Mutant Model Jeff, Is a Novel Apoptosis Inhibitor and Binds Spectrin Beta II**
Jiewu Yang j.yang@har.mrc.ac.uk
Rosaro Romero, Steve Brown
Medical Research Council, Harwell, Oxfordshire, United Kingdom

- P45 **Three *Moraxella catarrhalis* Strains Differed in Their Ability to Cause Acute Otitis Media in the Rat**
Eva Westman
evawestman@hotmail.com
Ann Hermansson, Åsa Melhus
Otorhinolaryngology, Sundsvall, Sweden
- P46 **A Mouse Model of ME Infection After Intranasal Administration of Pneumococci**
Albert Sabirov
Albert_Sabirov@urmc.rochester.edu
Dennis Metzger
University of Rochester School of Medicine and Dentistry, Rochester, NY

IMMUNOLOGY

- P47 **TLR2 and MyD88 Are Crucial to Recovery from Nontypeable *Haemophilus influenzae* (NTHi)-Induced Otitis Media**
Anke Leichtle aleichtle@ucsd.edu
Michelle Hernandez, Kwang Pak, Joerg Ebmeyer, Stephen I. Wasserman, Allen Ryan,
University of California San Diego, La Jolla, CA
- P48 **Induction of Innate Immune Molecule, Human Beta Defensin 2 by NTHi Is Required TLR2 Mediated MyD88 and IRAK-TRAF6 Signaling Pathway in Human Middle Ear Epithelial Cell**
Haa-Yung Lee hlee@hei.org
Tamotsu Takeshita, Jun Shimada, Arsen Acopyan, Shin-Seok Kang, Sung Kyun Moon, Robert Gellibolian, Ali Andalibi, David Lim
House Ear Institute, Los Angeles, CA
- P49 **Cellular Immune Responses to Pneumococcal Proteins in Children with Otitis Media**
Selma Wiertsema
swiertsema@meddent.uwa.edu.au
Anita Van Den Biggelaar, Marie Nadal-Sims, Angela Fuery, Ruth Thornton, Peter Hermans, Harvey Coates, Peter Richmond
University of Western Australia, Perth, Australia

- P50 **An Immunological Study in Chinese Adult Patients with Otitis Media with Effusion**
Xue Zhong Liu
xliu@med.miami.edu
Long Ru Zhang, Xiaomei Ouyang,
Li Lin Du, Denise Yan
*Department of Otolaryngology,
University of Miami, Miami, FL*
- P51 **Relationship of Effusion Bacteria, Serum Immunoglobulin and Effusion Immunoglobulin in Otitis Media with Effusion**
Seung Geun Yeo
yeo2park@yahoo.co.kr
Seok Min Hong, Jae Yong Byun,
Chang Il Cha, Hyun Joon Shim,
Dong Choon Park
*Kyung Hee University, Seoul,
Korea*
- P52 **Toll-Like Receptor 2 and 4 in Otitis Media with Effusion**
Young Chan Lee
medchan@hanmail.net
Il Ho Shin, Seung Geun Yeo, Jae
Yong Byun, Chang Il Cha, Hyun
Joon Shim, Dong Choon Park
*Kyung Hee Medical Center, Seoul,
Korea*
- P53 **Epitope-Mapping the Immune Response of Children with Otitis Media and Adults with Chronic Obstructive Pulmonary Disease to the PilA Protein of Nontypeable *Haemophilus influenzae* Type IV Pilus**
Leanne Adams adamsl@ccri.net
Laura Novotny, Sanjay Sethi,
Timothy Murphy, Lauren Bakaletz
*Columbus Children's Research
Institute, Columbus, OH*
- P54 **Detection of Bacteria Using PCR in Middle Ear Effusion: Correlation with Presence of Allergy by MAST**
Min Kyo Jung cmkkk@lycos.co.kr
Jeong-Hoon Oh
*The Catholic University of Korea,
Daejeon, Korea*

- P55 **NOD2-Dependent NF-KB Activation Is Involved in NTHi-Induced DEFB4 Up-Regulation of the Middle Ear Epithelial Cells as a TLR2-Independent Signaling Pathway**
Sung Kyun Moon smoon@hei.org
Jeong-Im Woo, Haa-Yung Lee,
Jun Shimada, Huiqi Pan, Robert
Gellibolian, David Lim
*House Ear Institute,
Los Angeles, CA*
- P56 **Toll-Like Receptor 2-Dependent NFkB Activation Is Involved in Nontypeable *Haemophilus influenzae*-Induced MCP-1 Up-Regulation in the Spiral Ligament Fibrocytes of the Inner Ear**
Sung Kyun Moon smoon@hei.org
Jeong-Im Woo, Haa-Yung Lee,
Raekil Park, Jun Shimada, Huiqi
Pan, Robert Gellibolian, David Lim
*House Ear Institute,
Los Angeles, CA*
- P57 **Lysozyme M Deficiency Increases Susceptibility to Pneumococcal Otitis Media**
Jun Shimada jshimada@hei.org
Sung Kyun Moon, Haa-Yung Lee,
Robert Gellibolian, Noboru
Yamanaka, David Lim
*House Ear Institute,
Los Angeles, CA*
- P58 **Intranasal Vaccination of Infant Mice Induces Protective Immunity in the Absence of Nasal-Associated Lymphoid Tissue**
Albert Sabirov
Albert_Sabirov@urmc.rochester.edu
Dennis Metzger
*University of Rochester School of
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