

# AAO-HNSF

2009 Annual Meeting & OTO EXPO

## Translational and Basic Research Track

October 4-7, 2009

Includes:

- **Translational and Basic Research**
- **Oral Presentations**
- **Mini-Courses**
- **Posters**



AMERICAN ACADEMY OF  
OTOLARYNGOLOGY-  
HEAD AND NECK SURGERY

FOUNDATION

The AAO-HNSF Annual Meeting & OTO EXPO is the world's largest gathering of otolaryngologists, together with the world's largest collection of products and services for the specialty. The 2009 Annual Meeting & OTO EXPO will take place at the San Diego Convention Center in San Diego, CA, from October 4–7, 2009, and is expected to draw more than 9,000 attendees and more than 300 exhibitors.

The AAO-HNSF annual meeting program offers otolaryngologists and other interested health professionals a series of unique and dynamic educational experiences designed to broaden and enrich their understanding of otolaryngology—head and neck surgery and to provide a foundation for continued learning. The annual meeting's program format includes Scientific and Translational and Basic Research sessions, instruction courses, mini-courses, and posters. The information contained in this brochure focuses solely on the Translational and Basic Research program. To learn more about the Scientific program, visit [www.entnet.org](http://www.entnet.org).

## 2009 AAO-HNSF Translational and Basic Research Program

In addition to the standard oral presentations and posters, the Translational and Basic Research Program explores translation or potential research applications on the horizon, from basic science research to advancements. In 2008, Otology was the theme. This year the focus is Rhinology and the programming provides a basis for research applications in decision-making, as well as a segue to the closing discussion on inflammatory mechanisms, looking toward future research applications and translation. More detailed information, including rooms, times, and lecture panels, will be noted in the final program.

Sunday, October 4, 2009

### Head and Neck Surgery

*Moderators: Emiro E. Caicedo-Granados, MD; Robert P. Zitsch III, MD—Room 5A*

- 10:32.....Jeremy Meier—Fluorescence spectroscopy as a diagnostic tool in HNSCC
- 10:40.....Maria Worsham—Mining global DNA hypermethylation signatures in HNSCC
- 10:48.....Judy Lee—Radiation-induced fibrosis: A rationale for Smad3 inhibition
- 10:56.....Moriniere Sylvain—Swallowing sound signal: Description before and after total and partial laryngectomy
- 11:04.....Kai-Ping Chang—CCL20 serum levels associated with NPC status and prognosis
- 11:12.....YuShan Wilson—Role of estrogen in thyroid tumor neo-vascularization
- 11:20.....Swati Pradhan—Engineering an artificial salivary gland
- 11:28.....Massimiliano Garzaro—Psycho-functional evaluation after reconstructive surgery

Monday, October 5, 2009

### Allergy

*Moderators: Robert C. Kern, MD; Michael G. Stewart, MD, MPH—Room 4*

- 9:06.....Sanjiv Kumar Bhimrao—Airway inflammation in atopic patients: A comparison of upper and lower airway

### Rhinology

*Moderators: Robert C. Kern, MD; Michael G. Stewart, MD, MPH—Room 4*

- 8:02.....David Tieu: Diminished levels of S100 proteins in chronic rhinosinusitis
- 8:10.....Winfried Moeller—Pulsating aerosols for topical therapy of rhinosinusitis
- 8:18.....Kristina Tansavatdi—Development of an animal model for sinus wound healing
- 8:26.....Zi Zhang—Biofilm and fungi on metaplastic epithelia in rhinosinusitis
- 8:34.....Joseph Han—Histologic examination of chronic rhinosinusitis polyps
- 8:42.....Armin F Deroee—The proteome of nasal polyposis after glucocorticoid therapy
- 8:50.....Ignazio Tasca—Nasal growth after pediatric septoplasty
- 8:58.....Nicholas Smith—Quercetin increases CI-transport in murine nasal epithelium

9:30 am–10:30 am

## Neel Distinguished Research Lecture—Ballroom 6D

*Introduction by Richard M. Rosenfeld, MD, MPH*

*Presenter: Martin J. Burton, DM, FRCS, Department of Otolaryngology, University of Oxford and The Radcliffe Infirmary, Oxford, United Kingdom*

The Cochrane Collaboration's mission is to improve healthcare decision-making globally, through systematic reviews of the effects of healthcare interventions. Dr. Burton is the chair of the Cochrane ENT Group and will share its activities to date, then walk the audience through the systematic review for Functional endoscopic sinus surgery for chronic rhinosinusitis.

10:30 am–12:00 pm

## Research Awards Ceremony—Ballroom 6D

Presentations by AAO-HNSF and sister society/foundation representatives will recognize the Central Otolaryngology Research Efforts (CORE) grant program's 2009 research grant recipients and the OLYMPUS® (formerly Gyrus ACMI ENT Division) research paper prize winners.

Tuesday, October 6, 2009

## Rhinology Translational Mini-Program

8:00 am–9:20 am

### Ask the Experts: An Endoscopic Potpourri—Room 6A

*Presenters: David Kennedy, MD; James Stankiewicz, MD; James Palmer, MD; Peter Hwang, MD; Berrylin Ferguson, MD*

This panel provides an open forum for discussion of the management options and the decision rationale involved in difficult sinus and skull base cases and complicated treatment situations. Questions regarding differential diagnosis, evaluation, imaging and treatment are posed to the audience in multiple choice format. Responses are expanded upon by the panelists. Particular emphasis is placed on the decision-making process, and on frontal sinus disease, revision surgery, fungal sinusitis, and management of more common tumors. (Audience touch-pad participation will be limited to the number of devices available, on a first-come, first-served basis).

9:30 am–10:50 am

### Examining the Role of Fungus in Chronic Rhinosinusitis—Room 6D

*Presenters: Richard Orlandi, MD; Bradley Marple, MD; Sarah Wise, MD; Rodney Schlosser, MD*

Chronic rhinosinusitis has been linked to many causative and contributory factors, including bacterial infections, inflammation, biofilm formation, allergy, and fungal colonization/infection. Recent studies have suggested an increased role for fungal organisms in chronic rhinosinusitis. Fungal organisms have recently been isolated in over 90% of patients with chronic rhinosinusitis, and ongoing studies are being conducted to further clarify the role of fungus in this disease process.

This mini-seminar will review the latest research on the role of fungus in routine chronic rhinosinusitis and in subsets of rhinosinusitis specifically linked to fungal organisms, such as allergic fungal rhinosinusitis. In-depth presentations will discuss identification of fungal organisms in chronic rhinosinusitis and associated immunologic changes. Thorough discussion of medical, surgical, and adjuvant therapies for chronic rhinosinusitis conditions associated with fungal organisms will be presented.

#### Educational Objectives:

1. Understand the role of fungal organisms as potential causative factors in chronic rhinosinusitis.
2. Recognize chronic rhinosinusitis subsets associated with fungi (i.e. allergic fungal rhinosinusitis) from the standpoint of demographic characteristics, presenting symptoms, and radiographic findings.
3. Appreciate medical and surgical therapies for the treatment of fungus-associated rhinosinusitis conditions.

11:00 am-12:00 pm

## Inflammatory Mechanisms in Chronic Rhinosinusitis—Room 6D

*Presenters: Andrew Lane, MD; Noam Cohen, MD, PhD; Martin DesRosiers, MD; Thibaut Van Zele, MD, PhD*

This mini-seminar will review the latest research into the etiology of chronic rhinosinusitis. Presentations will describe the normal immune function of the sinonasal tract as well as alterations observed in chronic inflammatory disease. Topics will include mucociliary clearance, mucosal barrier function, epithelial innate immunity, the role of lymphocytes and other adaptive immune cells, and genetic polymorphisms in chronic rhinosinusitis. The role of putative infectious agents, such as fungi, biofilms, and staphylococci, will be discussed in light of emerging theories about host-pathogen interactions at the mucosal surface. Predictions will be offered as to emerging areas of research that will impact otolaryngologists' management of chronic rhinosinusitis in the future.

### Educational Objectives:

1. Review basic science advancements in the understanding of host inflammatory mechanisms underlying chronic rhinosinusitis.
2. Appreciate potential translational medical approaches for the treatment of chronic sinonasal inflammatory disease.
3. Understand active ongoing research with potential clinical impact in the next decade.

## Head and Neck Surgery

*Moderators: Eben L. Rosenthal, MD; David L. Steward, MD—Room 4*

8:58.....Michael Kupferman—A Report on the Success of the AHSN Research Grant Program

*Moderators: Maie St. John, MD, PhD; Christopher H. Rassekh, MD—Room 5A*

9:32.....Jeremy Meier—Fluorescence lifetime imaging microscopy in oral cancer  
9:40.....Landon Duyka—Progesterone receptors identified in vascular malformations  
9:48.....Chris Hobbs—The effect of lifestyle on MHC class I in the upper airway  
9:56.....Kai-Ping Chang—Discovering potential new NPC biomarkers by cDNA microarray

*Moderators: Emiro E. Caicedo-Granados, MD; Eben L. Rosenthal, MD—Room 5A*

10:32.....Mark Zafereo—Nucleotide excision repair and risk of second primary cancer  
10:40.....Lacey Adkins—Glucose metabolism and FDG PET-CT accuracy  
10:48.....Carlos Lehn—CCR2-64I polymorphism and head and neck squamous cell carcinoma: A case control study  
10:56.....Maie St. John—A novel modular polymer platform for the treatment of HNSCC  
11:04.....Koji Araki—Molecular imaging for head and neck cancer in mouse models  
11:12.....Runge Annette—Manual vs. master slave accuracy in middle ear surgery  
11:20.....Derek Banyard—4-1BB ligand mutagenesis: Toward improved binding to 4-1BB  
11:28.....Maie St. John—Proinflammatory mediators promote metastasis in HNSCC  
11:36.....Paula Harmon—Viral response to chemotherapy in Burkitt Lymphoma

## Otology/Neurotology

*Moderators: Daniel J. Lee, MD; Alan G. Micco, MD—Room 4*

9:32.....Romaine Johnson—Genetic mutations in patient at risk for ototoxicity  
9:40.....Piali Dattaray—Effect of Ciprodex vs. CiprocHC on LPS-induced otitis media  
9:48.....Janet Oblinger—HDAC-42 as a potential radiosensitizer for human schwannomas  
9:56.....Matthew Bush—Novel inhibitors of vestibular schwannomas and meningiomas  
10:04.....Anthony Bared—Anti-oxidant enzymes and age-related hearing loss  
10:12.....Joshua Yorgason—Acetaminophen and hydrocodone hair cell ototoxicity in mice

*Moderators: Patrick J. Antonelli, MD; John S. Oghalai, MD—Room 4*

10:32.....Justus Ilgner—Microstructuring and bioactivation of middle ear prosthesis  
10:40.....Stefan Kassner—Inflammation: Evidence for a systemic aspect of SHL  
10:48.....Jamey Cost—Localization of Myosin 1a mRNA in the mouse cochlea  
10:56.....David Archibald—B7 Homolog 1 expression in vestibular schwannomas  
11:04.....Leslie Wilson—Cost-effectiveness of hybrid cochlear implants  
11:12.....Norimasa Morita—3-D reconstruction of membranous labyrinth in temporal bones  
11:20.....Matthew Whitley—Mutations in the WFS1 gene and low frequency hearing loss  
11:28.....Anke Leichte—Impaired antibacterial function is restored via CCL3 activation of hROS macrophages

# Facial Plastic and Reconstructive Surgery

*Moderators: Eben L. Rosenthal, MD; David L. Steward, MD—Room 4*

- 8:02.....Jonathan Baskin—rhBMP2 release profiles in collagen-apatite composites
- 8:10.....Ulrich Goessler—In vitro-analysis of radiation-induced dermal wounds
- 8:18.....Denise Wong—Molecular signature of keloids
- 8:26.....Matthias Gieringer—Angiogenesis in different types of the skin-pathologies
- 8:34.....Jens Stern-Straeter—Identification of valid housekeeping genes in human myoblasts
- 8:42.....Gregor Bran—TGFbeta1 antisense: Effect on integrins in keloid fibroblasts
- 8:50.....Haneen Sadick—Effect of TGF-1 antisense therapy on aberrant wound healing

## Sleep Medicine

*Moderators: Maie St. John, MD, PhD; Christopher H. Rassekh, MD—Room 5A*

- 10:04.....Nathan Salinas—Lesion formation using coblation in a porcine tongue model
- 10:12.....Christine Barth—Differential gene expression in subpopulations of mononuclea

Wednesday, October 7, 2009

## General Otolaryngology

*Moderators: Sukgi S. Choi, MD; Amelia F. Drake, MD—Room 4*

- 10:32.....Edward McCoul—Do ENT journal abstracts report study findings accurately?
- 10:40.....Sohit Kanotra—Subacute thyroiditis: An often misdiagnosed condition
- 10:48.....Mindy Figures—Head and neck cancer targeted chemosensitization
- 10:56.....Joon Kyoo Lee—KITENIN expression in early and advanced laryngeal cancer

## Pediatric Otolaryngology

*Moderators: Sukgi S. Choi, MD; Amelia F. Drake, MD—Room 4*

- 11:04.....Christopher Holloman—Growth of a latent language measure in deaf children
- 11:12.....Roberta Lima—Immune mediators in pediatric chronic rhinosinusitis
- 11:20.....Maria Pena—Glandular gene array profiling in pediatric rhinosinusitis
- 11:28.....Aaron Wieland—Novel repair of chronic tympanic membrane perforations

## Otology/Neurotology

*Moderators: Daniel J. Lee, MD; John S. Oghalai, MD—Room 5A*

- 8:02.....Sven Lindberg—The gas composition in the mastoid using laser spectroscopy
- 8:10.....Andrew Fishman—Atraumatic CO2 laser cochleostomy using a flexible waveguide
- 8:18.....Alaa Abou-Bieh—The protympanic crest
- 8:26.....Bruno Barros—Aminoguanidine protective effect for gentamicin ototoxicity
- 8:34.....Clinton Kuwada—Acoustic cues for sound localization measured in a human
- 8:42.....Nimish Patel—Effect of tympanostomy tube surface composition on occlusion
- 8:50.....Firas kassem—Morphology of the human tympanic membrane annulus
- 8:58.....Carleton Corrales—Down-regulation of GFP expression in inner ear cell types
- 9:06.....Calvin Wei—MYH9 mutant alleles: Effects upon MDA-MB-231 cell phenotype

## Laryngology

*Moderators: Ramon Franco, MD; David J. Terris, MD—Room 4*

- 8:02.....David Lott—Long-term laryngeal allograft survival using Everolimus
- 8:10.....Koichiro Saito—MicroRNA expression signature in laryngeal cancer
- 8:18.....Vasantha Kolachala—Use of senescent accelerated mouse to study aged-larynx
- 8:26.....Kenichiro Nomura—Reanimation of paralyzed larynx with implantable stimulator
- 8:34.....Scott Lee—Transcricothyroid approach to the subglottic airway
- 8:42.....Josena Stephen—Molecular modeling diagnosis of primary laryngeal cancer
- 8:50.....Erik Swanson—Effects of raised phonation on vocal fold gene expression
- 8:58.....Jennifer Long—Functional testing of a tissue-engineered vocal fold cover

Moderators: Dana Thompson, MD; B. Tucker Woodson, MD—Room 4  
9:32.....Dave Abdollahian—Analysis of perturbation from evoked rabbit phonation  
9:40.....Helen Perakis—Distinguishing aggressive from a non-aggressive form of RRP  
9:48.....Stuart Gillett—Laryngopharyngeal reflux and the flora of the larynx  
9:56.....Stuart Gillett—Diversity of the bacterial flora of the larynx  
10:04.....Ian Jacobs—Engineered cartilage autograft: Comparison of engraftment tissue

Posters

Sails Pavillion

Facial Plastic and Reconstructive Surgery (2)  
General Otolaryngology (9)  
Head and Neck Surgery (18)  
Laryngology (5)  
Otology/Neurotology (20)  
Pediatric Otolaryngology (2)  
Rhinology (10)

Poster hours:

Sunday, 10/4 .....10:00 am–6:00 pm  
Monday, 10/5 .....7:30 am–6:00 pm  
Tuesday, 10/6 .....7:30 am–6:00 pm  
Wednesday, 10/7 .....7:30 am–12:00 pm

New  
Poster Reception

Meet the Authors

Tuesday, October 6  
4:00 pm–5:30 pm

Register for the AAO-HNSF 2009 Annual Meeting & OTO EXPO

We encourage all prospective attendees to register as soon as possible for the annual meeting to take advantage of reduced registration fees and to avoid waiting in long lines onsite.

Important Date: August 31, 2009

- Advance Registration Deadline
- Housing Deadline

Registration Fees and Policies

Members, current 2009 dues must be paid

Residents/Fellows in Training/Affiliate .. \$275  
All other members ..... \$895

Non-Members

Otolaryngologists..... \$1,295  
Other Physicians ..... \$1,295  
Resident/Fellow in Training ..... \$525  
Registered Nurse ..... \$525  
Allied Health ..... \$525  
Audiologists ..... \$525  
Medical Student ..... \$525  
Nonmedical Office Staff..... \$525

Your registration fee to the annual meeting includes the following:

- Access to all guest lectures, Scientific and Translational and Basic Research Program Sessions
- Entrance to the OTO EXPO
- Access to the complimentary shuttle service to and from the official AAO-HNSF hotels and the San Diego Convention Center
- Entrance to the Opening Ceremony and President's Reception

To learn more, visit  
[www.entnet.org/annual\\_meeting](http://www.entnet.org/annual_meeting)