

# Fourth Annual Resident Research Day

Department of Otolaryngology - Head &  
Neck Surgery  
University Hospitals of Cleveland  
May 10, 2008 - Wolstein Auditorium

Iris S. & Bert L. Wolstein Research  
Building, 2013 Cornell Rd., Cleveland,  
OH, 44106

Welcome to the Fourth Annual Research Day Program at the Department of Otolaryngology Head and Neck Surgery. The aim is to highlight ongoing research in the department with special emphasis on resident research. Our guest speakers will shed light on various topics including otoprotection, drug delivery to the cochlea and new approaches for regeneration and repair.

## PROGRAM AGENDA

8:30-9:00am	<b>Breakfast</b>
9:00-9:15am	Welcome- Drs. James Arnold and Kumar Alagramam
9:15-9:30am	Introductory Speaker- Pamela Davis, MD, Ph.D. Dean, School of Medicine, CWRU
9:30-9:45am	Fabrication of a Tissue Engineered Trachea James Dennis, Ph.D.

9:45-10:00am	Scaffold-Free, Engineered Cartilage for Laryngotracheal Reconstruction in Rabbits David Gilpin, MD
10:00-10:15am	Nanotechnology Enabled Biomimetic Bone Substitute Alvin Ko, MD
10:15-10:30am	A Mouse Model of Endolymphatic Hydrops Cliff Megerian, MD
10:30-10:45am	<b>COFFEE BREAK</b>
10:45-11:00am	VEMPs in the Neck Muscles of Normal & Phex Mouse Kia Sheykholeslami, MD
11:00-11:15am	Strategies to Preserve Sensory Cells in the Hydropic Ear Joy Falola, MD
11:15-11:30am	Analysis and Functional Evaluation of the Hair-Cell Transcriptome Brian McDermott, Ph.D.
11:30-11:45am	Characterization of Novel Hair-Cell Transcripts in the Zebrafish Geoffrey Deschenes, MD

11:45-12:00am	Phthalocyanine (Pc 4) Photodynamic Therapy: A Dose Determination Study Mykola Prykhodko, MD
12:00-1:00pm	<b>LUNCH</b>
1:00-1:30pm	Genetics of Age-Related Hearing Loss Qing Zheng, MD
1:30-1:45pm	Drug Delivery to the Cochlea Chris Heddon, Medical Student, WVU.
1:45-2:00pm	Mouse Model for Deafness in Usher 1F: A Proteomics Study Kumar Alagramam, Ph.D.
2:00-2:30pm	Synthetic Triterpenoids: from Bench to Bedside John Letterio, MD
2:30-3:15pm	Novel Approaches for Protection, Repair and Regeneration in the Inner Ear Yehoash Raphael, Ph.D. Guest of Honor
3:15pm	Closing Remarks. Cliff Megerian, MD

### **Introductory Speaker**

Pamela B. Davis, MD, Ph.D.  
Dean, School of Medicine, CWRU

### **Invited Guest Speakers**

John J. Letterio, MD  
Professor of Pediatrics  
Case Western Reserve University  
Chief, Division of Pediatric Hematology  
/ Oncology  
Rainbow Babies and Children's Hospital  
The Ireland Cancer Center  
Cleveland, Ohio.

Yehoash Raphael, Ph.D.  
Professor of Otolaryngology  
The R. Jamison and Betty Williams  
Professor of Otolaryngology  
An A. Alfred Taubman Medical Research  
Institute Scholar  
University of Michigan, Ann Arbor, MI

### **Otolaryngology-Head and Neck Surgery Case School of Medicine**

**Program Coordinators**  
Kumar Alagramam, Ph.D.  
Associate Professor  
Director of Research

Cliff Megerian, MD  
Professor & Vice Chair  
Director of Clinical Research

*Breakfast and lunch will be served*

### **Faculty Mentors for Resident Research/Talks on the Agenda**

James Arnold, MD  
Professor & Chair

Cliff Megerian, MD  
Professor & Vice Chair

Kumar Alagramam, Ph.D.  
Associate Professor

Qin Yin Zheng, MD  
Assistant Professor

Brian McDermott, Ph.D.  
Assistant Professor

Steven Eppell, Ph.D.  
Associate Professor

Jonathan Baskin, MD  
Assistant Professor

James Dennis, Ph.D.  
Assistant Professor

Robert Sprecher, MD  
Assistant Professor

### **Residents**

Geoffrey Deschenes, MD, PGY-3

Alvin Ko, MD, PGY-3

Mykola Prykhodko, MD, PGY-2

Joy Falola, MD, PGY-2

David Gilpin, MD, PGY-2

Kia Sheykholeslami, MD, PGY-3

## **FOURTH ANNUAL RESIDENT RESEARCH DAY**

**MAY 10, 2008**

**DEPARTMENT OF OTOLARYNGOLOGY-**

**HEAD & NECK SURGERY**

**WOLSTEIN AUDITORIUM**

**IRIS & BERT L. WOLSTEIN RESEARCH**

**BUILDING, 2013 CORNELL RD.,**

**CLEVELAND, OH 44106**



**Case School of Medicine  
University Hospitals  
Case Medical Center**