

Third Annual Resident Research Day 2007

Department of Otolaryngology - Head &
Neck Surgery
University Hospitals of Cleveland
May 12, 2007- Wolstein Auditorium

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

Welcome to the Third 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: 1) The Genetics of Hearing Loss and Possible Application of this Knowledge to Diagnosis and Treatment of Hearing Loss, 2) Major Initiatives at the Center for Stem Cells and Regenerative Medicine at Case, 3) Goals and Highlights of the Newly Established Proteomics Center at Case.

PROGRAM AGENDA

8:30-9:00am **Breakfast**

9:00-9:15am Welcome- Drs. Kumar Alagramam and James Arnold

9:15-9:30am Introductory Speaker- Pam Davis, MD, Ph.D. (Interim Dean, School of Medicine, CWRU)

9:30-9:45am Development of a Nano-Composite as a Synthetic Load-Bearing Bone Substitute: A Biocompatibility Study Using the Rat Subdermal Model.
Anca Barbu, MD

9:45-10:00am Nanotechnology Enabled Biomimetic Bone Substitute.
Alvin Ko, MD

10:00-10:15am Is Phex Mice a Model for Pathologic Correlates of Meniere's?
Saba Aftab, MD

10:15-10:30am Polycaprolactone (PCL) as Substrate for *In Vitro* Cartilage Growth for Tracheal Reconstruction.
Mark Weidenbecher, MD

10:30-10:45am **COFFEE BREAK**

10:45-11:00am Sound-Evoked Saculo-Collic Potentials in Mice Model.
Kia Sheykholeslami, MD

11:00-11:30am A Functional Genomics Approach to Understanding the Molecular Constituents of the Hair Cell.
Brian McDermott, Ph.D.

11:30-11:45am Characterization of Novel Hair-Cell Transcripts in the Zebra Fish.
Geoffrey Deschenes, MD

11:45-1:00pm **LUNCH**

1:00-1:30pm Mouse as a Model for Hearing Research - Resources and Projects in Zheng Lab.
Qing Zheng, MD

1:30-2:00pm Research and Resources at the Case Proteomics Center.
Dr. Miyagi, Ph.D.

2:00-2:30pm Research Initiatives at the Center for Stem Cell and Regenerative Medicine.
Deborah Grega, Ph.D.

2:30-3:15pm Identification and Characterization of Mouse Cochlear Stem Cells.
Kumar Alagramam, Ph.D.

3:15-4:00pm Childhood Hearing Loss.
Anil Lalwani, MD
Guest of Honor

4:00pm Closing Remarks.
Cliff Megerian, MD

Introductory Speaker

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

Invited Guest Speakers

Debra S. Grega, Ph.D.
Executive Director
Center for Stem Cell and Regenerative
Medicine, National Center for
Regenerative Medicine,
School of Medicine, CWRU

Masaru Miyagi, Ph.D.
Assistant Professor Case Center for
Proteomics,
Department of Pharmacology,
Department of Ophthalmology,
School of Medicine, CWRU

Anil Lalwani, MD
Mendik Foundation Professor and Chair
Department of Otolaryngology
Professor of Pediatrics
Professor of Physiology & Neuroscience
New York University School of Medicine

Otolaryngology-Head and Neck Surgery, Case School of Medicine

Program Coordinators

Kumar Alagramam, Ph.D.
Assistant Professor
Director of Research

Cliff Megerian, MD.
Professor
Director of Clinical Research

Faculty Mentors for Resident Research/Talks on the Agenda

Cliff Megerian, MD
Professor

Kumar Alagramam, Ph.D.
Assistant Professor

Brian McDermott, Ph.D.
Assistant Professor

Qing Yin Zheng, MD
Assistant Professor

Steven Eppell, Ph.D.
Associate Professor

James Dennis, Ph.D.
Assistant Professor

Residents

Department of Otolaryngology - Head and Neck Surgery

Geoffrey Deschenes, MD, PGY-2

Alvin Ko, MD, PGY-2

Saba Aftab, MD, PGY-2

Andrea Jarchow MD, PGY-3

Anca Barbu, MD, PGY-3

Kia Sheykholeslami, MD, PGY-3

Breakfast and lunch will be served

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**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**