Dates to Remember

American Academy of Otolaryngology Annual Meeting
September 16—19, 2007
Washington, DC

Skull Base 2007
October 5, 2007
University Place

Sophomore Course
October 22—25, 2007

Sialo-Endoscopy With Lithotripsy
November 3, 2007

Incisionless Otoplasty
November 4, 2007

Lingeman Lectureship
November 9, 2007
Riley Outpatient Center (ROC) Auditorium

ENT News
August 31, 2007
Department of Otolaryngology

Spotlight on Hashino Lab
Submitted by Angela Thompson

The Department of Otolaryngology has a tri-partite mission of: 1) providing the highest quality patient care; 2) educating students, residents and physicians in the field of Otolaryngology and related disciplines; and 3) performing research regarding disorders within our specialty. This includes the discovery and application of new technologies as they relate to direct patient care.

The third mission involves research into the prevention, diagnosis and treatment of diseases within our specialty, as well as finding new technologies that will benefit our patients. The department’s research interests include The DeVault Otolologic Research Laboratory, Infant Language Laboratory, Auditory Neuroscience Lab, Neurolaryngology Laboratory, NIH/NIDCD Postdoctoral Research Fellowship, and NIH Summer Research Traineeships for Medical Students. Our faculty conducts both basic research and ongoing clinical studies. Our residents are continually involved with research as part of their residency experience. Many of them spend 1-2 years in the research lab separate from their clinical years. Our residents are required to take part in a yearly research project of their choosing for presentation at the annual Manion-Lingeman Lecture and Research Seminar.

This month we are highlighting the ongoing research in the Auditory Neuroscience Lab!

Research in the Auditory Neuroscience Lab (also referred to as the Hashino Lab) is focused on the molecular mechanisms underlying neuronal cell fate specification and differentiation. Specifically, they are studying how soluble signaling molecules, such as Sonic hedgehog, retinoic acid and Wnts, positively and negatively regulate cell cycle progression, gene expression and process outgrowth/migration, thereby promoting neuronal differentiation from multipotent progenitor cells in the developing nervous system. The lab also tests whether the signaling molecules known to play essential roles in neural development can promote differentiation of adult and embryonic stem cells. Using phenotypically defined pluripotent cell populations found in various adult tissues (bone marrow, adipose and muscle), they are testing whether these adult stem cells can give rise to functional neurons if appropriate signals are provided at appropriate timing. They hope that these studies will someday lead to the prevention of congenital deafness and the establishment of stem cell therapy to cure sensorineural deafness.

Current lab members:
Eri Hashino, Principal Investigator
- Associate Professor of Otolaryngology-Head and Neck Surgery
Takako Kondo, Post-doctoral fellow
- Molecular mechanisms underlying specification of auditory and vestibular neurons
Akihiro Matsuoka, Resident
- In vivo characterization of adult stem cells in the inner ear
Angela Thompson, Research analyst
- Signaling molecules in stem cell differentiation
Pankita Pandya, Undergraduate research assistant
- Canonical Wnt signaling in mouse embryonic stem cell differentiation

Continued on next page
Continued from Page 1—

This year the Hashino lab was fortunate to have undergraduate and medical students supported by the IUSM Undergraduate Summer Biomedical Research Program and the NIH Summer Research Traineeships for Medical Students. Dr. Hashino has mentored a total of 7 medical students for the NIH Traineeships, including last year’s summer students, Ben Meyer and David Zopf, who are both continuing their medical training with Indiana University School of Medicine. This was the first of many years that the Hashino lab worked with the IUSM Undergraduate Summer Biomedical Research Program, whose goal is to provide an opportunity for undergraduate students to participate in ongoing biomedical research projects at IU School of Medicine.

Summer Students:
Dan Fisher, IU School of Medicine  
Research: Canonical Wnt signaling in mouse embryonic stem cell differentiation
Jordan Legout, IU School of Medicine  
Research: The role for Tbx2 in inner ear development
Katie Byrum, Purdue University  
Research: The role for retinoid receptors in mouse embryonic stem cell differentiation

The Hashino lab would also like to congratulate their Post-Doc, Takako Kondo, on receiving a 2007-2008 Deafness Research Foundation (DRF) grant. Each year since its inception, DRF has funded promising research in the field of hearing and balance science. This research, which most likely would not have happened without DRF funding, has led to dramatic innovations that increase options for those living with hearing and balance disorders as well as protect those at risk.

Welcome to:
Kristin Vincent—Speech Pathologist, Riley Hospital ENT clinic
Tammy Collins—Audiology / Speech Registration, Riley Hospital
Sara Tinter—Advanced Research Assistant, Infant Language Lab
Heather Winegard—Research Assistant, Infant Language Lab
Bryan McRae—GL1 Resident from Michigan
Mark Royer—GL1 Resident, IU Student
Peter Schilt—GL1 Resident, IU Student
Nathaniel Peterson—Research Resident
Brittnie Ostler—Research Assistant, Infant Lab
Kelsie Johnson—Research Assistant, Infant Lab
Jessica Beer—Post-Doctoral Fellow

Congratulations to:
Kabreea York—new Clinical Research Specialist
Dr. Ulm—featured on Channel 6 performing a live balloon sinoplasty at Clarian North

Goodbye to:
Dr. Su Wooi Teoh  
Dr. Clem McDonald  
Dr. Josh Bradley  
Dr. C. William Johnson  
Carrie Hansel  
Dr. R. Christopher Miyamoto  
Dawn Wetzel  
Janet Strahlendorf

Aniaversaries
Joanne Coffey—10 years  
Jane Adamson—5 years

Audiology Interns
Emily Bondus  
Skyler Jennings  
Andrea Moore

Cookbook
We are again seeking recipes for a departmental cookbook to raise funds for a family in need during the holidays. If you have a favorite recipe that was not submitted for the first edition of our departmental cookbook, please send the recipe to Tanya Hobbs at tachrist@iupui.edu

1 out of 10 Americans have a hearing loss — that’s more than 31,000,000 people.
Service Excellence

Many of our employees are taking part in a series called Service Excellence which includes topics such as Creating Moments of Truth, Demonstrating Respect and Managing Expectations and Creating a Culture of Service and Enhancing Communication Skills. Those in the process of competing the 2 month series are:

Patti Safstrom
Tanya Hobbs
Marcia Harmon
Tammy Huston
Lisa Reinke
Janet Strahlendorf
Gloria Nelson
Mary Thompson-Raupp
Lanita Ivy
Patricia Gatlin

Melissa Mederios
Jan Frazee
Irita Austin
Doris Ladd
Vicky Cass
Alberta Stewart
Bath Rethmeier
Jeanne Carr
Becky Colson

Grant News

~Tonya R. Bergeson-Dana, PhD(Assistant professor and Philip F. Holton Investigator) is the recipient of a National Institutes of Health research grant for a project entitled “Development of attention to maternal speech in infants with hearing loss.” Findings from this research will assist clinicians in formulating intervention programs directed toward the maximization of successful verbal communication in infants and children with hearing loss.

~Jonathan Y. Ting and Derek M. Houston received the Resident Research Grant from the American Academy of Otolaryngology—Head and Neck Surgery Foundation for “Validating a Novel Speech Discrimination Test in Hearing-Impaired Infants.”

Chicago Triathlon

Jonathan Ting participated in the Chicago Triathlon on Sunday, August 26. This is a fundraising event for the Leukemia and Lymphoma society. If you would like to make a donation, the fundraising website is: http://www.active.com/donate/tntin/jonting. Donations are still being accepted.

Presentations

Jonathan Ting & Steven Chin presented a poster entitled “The role of word omission in the speech intelligibility of children with cochlear implants” at the 28th annual Symposium on Research in Child Language Disorders, Madison, WI, June 7—9, 2007.

Michael Fritsch, M.D. presented studies done with Ilka Naumann, M.D. titled, “Phylogeny of the Stapes Prosthesis”, at the jury selected section of the American Otological Society at the COSM meeting, San Diego, CA, April 28, 2007.

Chicago Triathlon

Jonathan Ting participated in the Chicago Triathlon on Sunday, August 26. This is a fundraising event for the Leukemia and Lymphoma society. If you would like to make a donation, the fundraising website is: http://www.active.com/donate/tntin/jonting. Donations are still being accepted.

Presentations

Jonathan Ting & Steven Chin presented a poster entitled “The role of word omission in the speech intelligibility of children with cochlear implants” at the 28th annual Symposium on Research in Child Language Disorders, Madison, WI, June 7—9, 2007.

Michael Fritsch, M.D. presented studies done with Ilka Naumann, M.D. titled, “Phylogeny of the Stapes Prosthesis”, at the jury selected section of the American Otological Society at the COSM meeting, San Diego, CA, April 28, 2007.

Patient Satisfaction Letter

The following is an excerpt of a letter from a patient of Dr. Ulm’s: “Thank you so much. What a change you have made in my life . . . I cannot believe how simple, easy, and basically pain free you made such a difference in my quality of life! What a great job you did of explaining things to me and working with me.”
Our departmental newsletter is intended to keep us all informed of the many things going on in our department. Please let me know of upcoming dates, publications, reminders, new research, improvements, etc. Contributions should be submitted to Jane Adamson, RR 132 or email jaadamso@iupui.edu

We’re on the web: Medicine.iu.edu/oto