

CURRICULUM VITAE
Henry C. Ou, MA, MD
November 2016

EDUCATION

1989 – 1993	Cornell University College of Arts and Sciences <i>Bachelor in Arts and Sciences - May 1993</i>	Ithaca, NY
1993 – 1998	Washington University School of Medicine <i>Doctor of Medicine - May 1998</i>	St. Louis, MO
1997 – 1998	Washington University Graduate School of Arts and Sciences – American Heart Association Research Fellowship <i>Master's in Arts and Sciences - May 1998</i>	St. Louis, MO

POSTGRADUATE TRAINING

1998 – 1999	University of Washington Department of Surgery <i>General Surgery Internship</i>	Seattle, WA
1999 – 2000	University of Washington Department of Otolaryngology - Head and Neck Surgery Virginia Merrill Bloedel Hearing Research Center <i>Research Fellowship</i>	Seattle, WA
2000 – 2004	University of Washington Department of Otolaryngology - Head and Neck Surgery <i>Otolaryngology Residency</i>	Seattle, WA
2004 – 2005	Children's Hospital and Regional Medical Center University of Washington Department of Otolaryngology - Head and Neck Surgery <i>Pediatric Otolaryngology Fellowship</i>	Seattle, WA
2005 – 2006	University of Washington Department of Otolaryngology - Head and Neck Surgery Virginia Merrill Bloedel Hearing Research Center <i>Pediatric Otolaryngology Research Fellowship</i>	Seattle, WA

PROFESSIONAL EXPERIENCE

07/2006 – 06/2012	Assistant Professor, Otolaryngology-Head and Neck Surgery Seattle Children's Hospital, University of Washington 75% research at Virginia Merrill Bloedel Hearing Research Center, 25% clinical at Seattle Children's Hospital	Seattle, WA
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07/2012 – present Associate Professor, Otolaryngology-Head and Neck Surgery Seattle, WA
Seattle Children’s Hospital, University of Washington

HONORS/AWARDS

1993 Graduated with Distinction in All Subjects, Cornell University

1993 Cornell University Banner Bearer – Awarded for 3rd highest GPA in College of Arts and Sciences

1993 Cornell University Merrill Presidential Scholar

1993 Phi Beta Kappa, Cornell University

1994 Antoinette Frances Dames Award in Cell Biology and Physiology, Washington University School of Medicine

1998 Alpha Omega Alpha, Washington University School of Medicine

1998 Association for Research in Otolaryngology Medical Student Travel Award

2000 Association for Research in Otolaryngology Travel Award

2007 University of Washington School of Medicine, Marian E. Smith Junior Faculty Research Award (\$25,000)

2008 University of Washington Department of Otolaryngology Research Faculty Mentor Award

2008 William Potsic Basic Science Research Award, 1st Prize, American Society of Pediatric Otolaryngology (Mentor of Resident: Lynn Chiu)

BOARD CERTIFICATION

2005 American Board of Otolaryngology

CURRENT LICENSE(S)

State of Washington

PROFESSIONAL ORGANIZATIONS

2000 – present American Academy of Otolaryngology-Head and Neck Surgery

2006 - present Member - Association for Research in Otolaryngology

2006 – present Affiliate of Virginia Merrill Bloedel Hearing Research Center

2006 – 2012	Member - Pharmacy and Therapeutics Committee - Seattle Children's Hospital and Regional Medical Center
2007 – present	Member – University of Washington Department of Otolaryngology-HNS Residency Interview Committee
2009 – 2013	University of Washington Department of Otolaryngology-HNS – Seattle Children's Pediatric Otolaryngology Search Committee
2010 – present	Fellow - American College of Surgeons
2010 – present	Member - American Society of Pediatric Otolaryngology
2010 – 2014	Senator – University of Washington Faculty Senate
2011 – present	Member - Northwest Academy of Otolaryngology
2012 – present	Member – University of Washington Department of Otolaryngology-HNS Research Committee
2012 – present	Member – American Society of Pediatric Otolaryngology Research Committee
2013 – present	Centralized Otolaryngology Research Efforts (CORE) Grant reviewer
2013 – present	Associate Fellowship Director, Pediatric Otolaryngology Fellowship - Seattle Children's Hospital/University of Washington
2013 – present	Director of Hearing Loss Clinic, Seattle Children's Hospital
2016 – present	Chair of Clinical Competency Committee – University of Washington Department of Otolaryngology-HNS
2016	University of Washington Department of Otolaryngology-HNS – Seattle Children's Pediatric Otolaryngology Division Chief Search Committee
2016	Member – Seattle Children's Perioperative Improvement Task Force
2015 – present	Physician representative on State of Washington Board of Hearing and Speech, appointed by Governor Jay Inslee

GRANTS

2006 – 2007	American Society of Pediatric Otolaryngology – CORE grant for <i>Development of a standardized scale for ototoxicity</i> . PI: Ou. \$7,500.
2007 – 2009	National Organization for Hearing Research Foundation (NOHR) grant for <i>Evaluation of candidate otoprotective compounds in the mouse utricle</i> . PI: Ou. \$20,000.

- 2007 – 2008 University of Washington Royalty Research Fund (RRF) grant for *Evaluation of candidate otoprotective compounds in the mouse utricle*. PI: Ou. \$40,000.
- 2010 – 2012 Capita Foundation Hearing Research Grant for *Use of fluorescently-conjugated cisplatin to study the uptake of cisplatin into hair cells*. PI: Ou. \$8050.
- 2009 – 2014 National Institutes of Health/National Institute on Deafness and Other Communication Disorders (NIH/NIDCD) – 1K08DC009631 – *Identifying and characterizing chemical modulators of hair cell death*. PI: Ou. \$199,800/year x 5 years.
- 2015-2016 American Otologic Society Research Grant for *Exploring mechanisms of synergistic ototoxicity in anti-cancer drugs*". PI: Ou. \$33,089/year x 1 year.

RESEARCH TRAINING

- 6/90-8/90 National Institute of Mental Health, NIH
Unit of Molecular Neurobiology, Biological Psychiatry Branch
Intramural Research Training Award Fellow
Differential Regulation of Beta-1 and Beta-2 Adrenergic Receptors
Advisor: De-Maw Chuang, Ph.D.
- 6/91-8/91, 6/92-8/92 National Institute of Child Health and Human Development, NIH
Section on Cellular Differentiation, Human Genetics Branch
Intramural Research Training Award Fellow
Characterization of the 5' Regulatory Region of Germ Cell Alkaline Phosphatase
Advisor: Janice Chou, Ph.D.
- 6/94-8/94 National Institute of Child Health and Human Development, NIH
Section on Cellular Differentiation, Human Genetics Branch
Intramural Research Training Award Fellow
New mutations in the Glucose-6-Phosphatase gene
Advisor: Janice Chou, Ph.D.
- 1996 – 1998 Washington University School of Medicine Department of Otolaryngology
- Head and Neck Surgery
Frequency-Place Map of the Mouse Organ of Corti – Master's thesis
Advisors: Gary Harding, M.S.E, Barbara Bohne, Ph.D.
- 1999 – 2000 University of Washington Department of Otolaryngology – Head and Neck Surgery, V.M. Bloedel Hearing Research Center
Cell cycle regulation in auditory and vestibular sensory epithelium
Advisors: Marc Coltrera, M.D., Edwin Rubel, Ph.D.
- 2002 – 2004 University of Washington Department of Otolaryngology – Head and Neck Surgery, V.M. Bloedel Hearing Research Center
Hair cell death in the zebrafish lateral line
Advisor: Edwin Rubel, Ph.D.

2005 – 2006

University of Washington Department of Otolaryngology – Head and Neck Surgery, V.M. Bloedel Hearing Research Center
Cell death inhibitors in the zebrafish lateral line
 Advisor: Edwin Rubel, Ph.D.

BIBLIOGRAPHY

Manuscripts

1. Lei KJ, Chen YT, Chen H, Wong LJ, Liu JL, McConkie-Rosell A, Van Hove JL, Ou HC, Yeh NJ, Pan L: *Genetic Basis of Glycogen Storage Disease Type 1a: Prevalent Mutations at the Glucose-6-Phosphatase Locus*. *Am. J. Human Genetics* 57: 766-71, 1995.
2. Ou H, Bohne B, Harding G: *Noise damage in the C57BL/CBA mouse cochlea*. *Hearing Research* 145: 111-122, 2000.
3. Ou H, Harding G, Bohne B: *An anatomically based frequency-place map for the mouse cochlea*. *Hearing Research* 145: 123-129, 2000.
4. Sie KC, Ou HC: *Otoplasty: An alternative approach to management of the deep conchal bowl*. *Laryngoscope* 116(11): 2092-4, 2006.
5. Ou HC, Raible DW, Rubel EW: *Cisplatin-induced hair cell loss in zebrafish (Danio rerio) lateral line*. *Hearing Research* 233: 46-53, 2007.
6. Chiu L, Cunningham LL, Raible D, Rubel E, Ou H: *Using the zebrafish lateral line to screen for ototoxicity*. *Journal of the Association for Research in Otolaryngology* 9(2): 178-90, 2008.
7. Ou HC, Cunningham LL, Francis SP, Brandon CS, Simon JA, Raible DW, Rubel EW: *Identification of FDA-approved drugs and bioactives that protect hair cells in the zebrafish (Danio rerio) lateral line and mouse (Mus musculus) utricle*. *Journal of the Association for Research in Otolaryngology*, 10(2); 191-203, 2009.
8. Choi P, Qin X, Chen EY, Inglis AF Jr, Ou HC, Perkins JA, Sie KC, Patterson K, Berry s, Manning SC: *Polymerase chain reaction for pathogen identification in persistent pediatric cervical lymphadenitis*. *Arch Otolaryngol Head Neck Surg*. 135(3): 243-8, 2009.
9. Chen EY, Inglis AF, Ou H, Perkins JA, Sie KC, Chiara J, Manning SC: *Endoscopic electrocauterization of pyriform fossa sinus tracts as definitive treatment*. *Int J Pediatr Otorhinolaryngol*. 73(8): 1151-6, 2009.
10. Ou HC, Santos F, Raible DW, Simon JA, Rubel EW: *Drug Screening for hearing loss: Using the zebrafish lateral line to screen for drugs that prevent and cause hearing loss*. *Drug Discovery Today*. 15(7-8): 265-71, 2010.
11. Coffin AB, Ou HC, Owens KN, Santos F, Simon JA, Rubel EW, Raible DW: *Chemical screening for hair cell loss and protection in the zebrafish lateral line*. *Zebrafish*. 7(1): 3-11, 2010.
12. Ou HC, Cleary P, Sie K: *Assessing the immunization status of pediatric cochlear implant recipients using a state-maintained immunization registry*. *Otolaryngology-Head and Neck Surgery*. 143(4): 487-91, 2010.
13. Hirose Y, Simon J, Ou H. *Hair cell toxicity in anti-cancer drugs: Evaluating an anti-cancer drug library for independent and synergistic toxic effects on hair cells using the zebrafish lateral line*. *Journal of the Association for Research in Otolaryngology*, 12(6); 719-28, 2011.
14. Chen EY, Lim J, Boss E, Inglis A, Ou H, Sie K, Manning S, Perkins J. *Transoral approach for direct and complete excision of vallecular cysts in children*. *International Journal of Pediatric Otolaryngology*, 75(9); 1147-51, 2011.
15. Ou H, Simon JA, Rubel EW, Raible DW. *Screening for chemicals that affect hair cell death and survival in the zebrafish lateral line*. *Hearing Research*, 288(1-2);58-66, 2012.

17. Ou HC, Keating S, Wu P, Simon JA, Raible DW, Rubel EW: *Quinoline ring derivatives protect against aminoglycosides-induced hair cell death in the zebrafish lateral line*. Journal of the Association for Research in Otolaryngology, 13(6): 759-70, 2012.
18. Ou HC, Lin V, Rubel EW: *“In-bone” utricle cultures – A simplified, atraumatic technique for in situ cultures of the adult mouse (Mus musculus) utricle*. Otology and Neurotology, 34(2): 353-9, 2012.
19. Esterberg R, Coffin A, Ou H, Simon J, Raible D, Rubel E: *Fish in a dish: drug discovery for hearing habilitation*. Drug Discovery Today: Disease Models, 2013.
20. Thomas A, Hailey D, Stawicki T, Wu P, Coffin A, Rubel E, Raible D, Simon J, Ou H: *Functional mechanotransduction is required for cisplatin-induced hair cell death in the zebrafish lateral line*. Journal of Neuroscience, 33(10): 4405-14, 2013.
21. Brown JC, Baik FM, Ou HC, Otjen JP, Parish HG and Chan DK. *Upper Aerodigestive Magnetic Foreign Bodies in Children*. Laryngoscope, 2013.
doi:10.1002/lary.24489&ArticleID=1239701. [Epub ahead of print]
22. Thomas A, Wu P, Raible D, Rubel E, Simon J, Ou H: *Identification of small molecule inhibitors of cisplatin-induced hair cell death: Results of a 10,000 compound screen in the zebrafish lateral line*. Otology and Neurotology, 36(3): 519-25, 2015.
23. Tang J, Qian Y, Kopecky BJ, Ding D, Ou HC, DeCook R, Chen X, Sun Z, Kobel M, Bao J: *Canertinib induces ototoxicity in three preclinical models*. Hear Res, 328: 59-66, 2015.
24. Esterberg R, Linbo T, Pickett SB, Wu P, Ou HC, Rubel EW, Raible DW: *Mitochondrial calcium uptake underlies ROS generation during aminoglycoside-induced hair cell death*. J Clin Invest, 126(9): 3556-66, 2016.

Patents

1. Ou HC, Santos F, Rubel EW, Raible DW, Simon JA: *Compounds that protect against sensory hair cell death*. U.S. Patent No. US 8,232,314 B2. July 31, 2012.

Book Chapters/other non peer-reviewed

1. Ou HC: Master's Thesis: *Frequency-Place Map of the Mouse Organ of Corti*. Advisors: Gary W Harding, M.S.E. and Barbara A Bohne, Ph.D., 1998.
2. Bohne B, Harding G, & Ou HC: *Preparation and evaluation of the mouse temporal bone*. In *Handbook of Mouse Auditory Research: From Behavior to Molecular Biology*. Ed. J.F. Willott, CRC Press: 171-87, 2001.
3. Ou HC: *Enlarged vestibular aqueduct*. In *Communication Station* newsletter. Seattle Children's Hospital, 2008.
4. Ou HC: *Hearing abnormalities*. In *Chicago Companion to the Child*. University of Chicago Press, 2009.
5. Ou HC: *Ototoxicity*. In *Communication Station* newsletter. Seattle Children's Hospital, 2011.
6. Ou HC: *Can the zebrafish be used to identify potentially ototoxic medications?* In *ENT & Audiology News*, 2012.
7. Cote V, Ou H: *Pediatric Otology*. In *Otolaryngology Head and Neck Surgery – Clinical Reference Guide*. Ed. R. Pasha, Plural Publishing, 2014.
8. Ou H: *Pediatric Sensorineural Hearing Loss*. In *Pediatric Otolaryngology – Head and Neck Surgery – A Clinical Reference*. Ed S. Parikh, Plural Publishing, 2014.

Abstracts/Posters

1. Ou H, Harding GW, Bohne BA: *Anatomically based frequency-place map of the mouse organ of Corti*. Poster presented at the Midwinter Research Meeting of ARO, 1998.

2. Ou H, Heydt JL, Rubel EW, Coltrera M: *Expression of EPC-1, a quiescent-state cell cycle marker, in mouse cochlea and vestibular sensory epithelia*. Poster presented at the Midwinter Research Meeting of ARO, 2000.
3. Ou HC, Santos F, Raible DW, Rubel EW: *c-Jun N-terminal kinase inhibition blocks aminoglycoside but not cisplatin-induced hair cell death in the zebrafish lateral line*. Poster presented at Midwinter Meeting of ARO, 2006.
4. Chiu LL, Rubel EW, Raible DW, Ou HC: *Using the zebrafish lateral line to screen for ototoxicity*. Poster presented at the Midwinter Meeting of ARO, 2007.
5. Coffin AB, Ou HC, Santos F, Owens, K, Raible D, Rubel EW: *Small molecule provides differential hair cell protection against cisplatin and aminoglycosides in zebrafish neuromasts*. Poster presented at the Midwinter Meeting of ARO, 2008.
6. Ou HC, Rubel EW, Lin V: *A simplified, atraumatic technique for in situ cultures of the mouse utricle*. Poster presented at the Midwinter Meeting of ARO, 2008.
7. Kelly P, Ou H, Oda D, Egbert M: *Interferon alpha therapy for aggressive juvenile ossifying fibroma*. Poster presented at the American Association of Oral and Maxillofacial Surgeons Annual Meeting, 2008.
8. Yoo T, Raible DW, Rubel EW, Ou H: *Developing an ototoxicity screen in the zebrafish lateral line: Results of the BIOMOL FDA-Approved Drug Library Screen*. Poster presented at the Midwinter Meeting of ARO, 2010.
9. Choi H, Rubel EW, Raible DW, Simon J, Ou H: *The role of oxidative stress and antioxidants in zebrafish lateral line hair cell damage*. Poster presented at the Midwinter Meeting of the Association for Research in Otolaryngology, 2011.
10. Hirose Y, Rubel EW, Raible DW, Simon J, Ou H: *Assessing the synergistic ototoxicity of anti-cancer drug combinations using the zebrafish lateral line*. Poster presented at the Midwinter Meeting of the Association for Research in Otolaryngology, 2011.
11. Keating S, Rubel EW, Raible DW, Simon J, Ou H: *Quinoline derivatives protect against aminoglycoside-induced hair cell death in the zebrafish lateral line*. Poster presented at the Midwinter Meeting of the Association for Research in Otolaryngology, 2011.
12. Wu P, Esterberg R, Ou H: *Hydrogen peroxide production can be measured in lateral line hair cells using HyPer [Tg(myosin6b:HyPer)] expressing zebrafish*. Poster presented at the Midwinter Meeting of the Association for Research in Otolaryngology, 2013.
13. Thomas A, Wu P, Raible D, Rubel E, Simon J, Ou H: *Small molecule inhibitors of cisplatin-induced hair cell death: Results of a 10,000 compound screen in the zebrafish lateral line*. Poster presented at the Midwinter Meeting of the Association for Research in Otolaryngology, 2013.
14. Thomas A, Wu P, Ou H: *Copper-induced hair cell death in the zebrafish lateral line requires functional mechanotransduction*. Poster presented at the Midwinter Meeting of the Association for Research in Otolaryngology, 2013.
15. Wu P, Thomas A, Ou H: *In vitro uptake of Rhodamine-conjugated platinum into mouse utricle hair cells*. Poster presented at the Midwinter Meeting of the Association for Research in Otolaryngology, 2014.

PRESENTATIONS

1. Ou HC, Raible DW, Rubel EW: *Using the zebrafish lateral line to screen an FDA library for compounds that protect hair cells*. Presented at Midwinter Meeting of the Association for Research in Otolaryngology, 2007.
2. Ou HC: *Ototoxicity*. Invited speaker at University of Washington Meeting on Late Onset and Progressive Hearing Loss in Children, Seattle, WA, 2007.
3. Ou HC: *Hearing loss in Turner Syndrome*. Invited speaker at Northwest Turner Syndrome Society. Seattle, WA 2007.

4. Ou HC: *Otitis Media: Diagnosis and Treatment from the Otolaryngologic Perspective*. Invited speaker at Children's Hospital and University of Washington Practical Pediatrics Course. Seattle, WA, 2008.
5. Ou HC: *Common Problems in Pediatric Otolaryngology: Case-based discussions*. Invited speaker at Children's Hospital and University of Washington Practical Pediatrics Course. Seattle, WA, 2008.
6. Rubel E, Simon J, Santos F, Ou H, Chiu L, Raible D: *In vivo screening for potentially therapeutic drugs*. Presented at Midwinter Meeting of the Association for Research in Otolaryngology, 2008.
7. Chiu L, Cunningham L, Rubel E, Raible D, Ou H: *Zebrafish lateral line as a screening tool for identifying ototoxicity*. Presented at the American Society of Pediatric Otolaryngology – Combined Otolaryngological Spring Meeting 2008. Received William Potsic Research Award.
8. Ou HC: *Evaluation and management of congenital hearing loss*. Pediatric Grand Rounds. Seattle Children's Hospital, 2008.
9. Chiu L, Rubel E, Raible D, Ou H: *Screening for ototoxic drugs using the zebrafish lateral line: In vivo mammalian validation*. Presented at Midwinter Meeting of the Association for Research in Otolaryngology, 2009.
10. Ou HC: *Using the zebrafish lateral line to screen for drugs that prevent and cause hearing loss*. Invited speaker for Seminars in Hearing and Communication Sciences, 2009.
11. Ou HC: *Using the zebrafish lateral line to screen for drugs that prevent and cause hearing loss*. Invited speaker for University Lions Club, December, 2009.
12. Hirose Y, Raible DW, Rubel EW, Ou H: *Screening for ototoxicity in anti-cancer drugs using the zebrafish lateral line*. Presented at Midwinter Meeting of the Association for Research in Otolaryngology, 2010.
13. Ou HC: *Using the zebrafish lateral line to study drugs that prevent and cause hearing loss*. Invited guest speaker at Virginia Merrill Bloedel Board of Trustees meeting, 2010.
14. Ou HC: *Hearing loss in the craniofacial population*. Interdisciplinary Craniofacial Education Series. Seattle Children's Hospital, 2011.
15. Ou HC: *101 ways to protect and kill a hair cell*. Invited speaker: Clover Park Rotary Club, August 2011.
16. Ou HC: *Zebrafish and the child with hearing loss*. University of Washington Alumni Day. Seattle, WA, 2012.
17. Ou HC: Panel moderator: *Pediatric tympanic membrane retractions and perforations*. Northwest Academy of Otolaryngology Winter Conference. Seattle, WA, 2013.
18. Ou HC: *101 ways to protect and kill a hair cell: Using the zebrafish to prevent hearing loss*. Invited speaker: Hearing Loss Association of Bellevue, Bellevue, WA, 2013.
19. Ou HC: Invited panelist: *Reviewing the current guidelines for tube placement*. Northwest Academy of Otolaryngology Winter Conference. Seattle, WA, 2014.
20. Ou HC: Invited speaker: *Using the zebrafish to identify drugs that prevent and cause hearing loss*. Center for Integrative Brain Research (CIBR) Seminar. Seattle, WA 2014.
21. Ou HC: Invited panelist: *Pediatric head and neck masses*. Northwest Academy of Otolaryngology Winter Conference. Seattle, WA, 2016.

INVITED REVIEWER

1. Hearing Research
2. Journal of the Association for Research in Otolaryngology
3. Otolaryngology-Head and Neck Surgery
4. Laryngoscope
5. Journal of Neuroscience
6. Annals of Otolaryngology, Rhinology, and Laryngology
7. Apoptosis

8. Brain Research
9. PLOS one
10. Cellular and Molecular Neurobiology
11. Cancer Chemotherapy and Pharmacology
12. Otology and Neurotology
13. Developmental Dynamics
14. International Journal of Pediatric Otolaryngology

TRAINEES

Clinical fellows

Eunice Chen – Assistant Professor, Dartmouth-Hitchcock Medical Center
 Emily Rudnick – Assistant Professor, Johns Hopkins Medicine
 Nooshin Parhizkar – private practice, California
 Sharon Cushing – Assistant Professor, SickKids, University of Toronto
 Abby Meyer – Assistant Professor, University of Minnesota
 David Tieu – private practice, Kaiser – California
 Tianjie Shen – private practice, Kaiser - California
 Dylan Chan – Assistant Professor, University of California – San Francisco
 David Zopf – Assistant Professor, University of Michigan
 John Dahl – Assistant Professor, Indiana University

Research trainees

Andrew Thomas – resident, University of Utah, Department of Otolaryngology
 Yoshinobu Hirose – Otolaryngologist – Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan
 Ho seok Choi – Otolaryngologist – Inha University School of Medicine, Inchon, South Korea.
 Lynn Chiu – resident, University of Washington Department of Otolaryngology
 Anna Knisely – resident, University of Pittsburgh, Department of Otolaryngology
 Michael Louie – undergraduate, University of Washington
 Thomas Yoo – undergraduate, University of Washington
 Mego Huang – undergraduate, University of Washington