

## MARK E. WHIPPLE, M.D., S.M., F.A.C.S.

### Date of CV

11/15/2016

### Personal Data

#### Address:

Harborview Medical Center  
325 Ninth Avenue  
Box 359894  
Seattle, WA 98104-2499

#### Phone:

(206) 744-3231

#### Fax:

(206) 744-3269

#### E-mail:

mwhipple@uw.edu

#### Date of birth:

May 3, 1965

#### Place of birth:

Seattle, WA

### Education

1983-1986	<b>Stanford University</b> Bachelor of Science with Distinction	Palo Alto, CA
1987-1991	<b>University of Washington School of Medicine</b> Doctor of Medicine with Honors	Seattle, WA
2000-2001	<b>Massachusetts Institute of Technology - Harvard University</b> Division of Health Science and Technology Master of Science in Medical Informatics	Cambridge, MA

### Postgraduate Training

1991-1992	<b>University of Illinois</b> Internship in General Surgery	Chicago, IL
1992-1996	<b>University of Illinois</b> Residency in Otolaryngology - Head and Neck Surgery	Chicago, IL
2000-2001	<b>Harvard Medical School - Children's Hospital</b> Children's Hospital Informatics Program Postdoctoral Fellowship in Bioinformatics	Boston, MA
2006-2007	<b>University of Washington School of Medicine</b> Teaching Scholars Fellowship Program Certificate in Medical Education	Seattle, WA

### Faculty Positions Held

2002-2003	<b>Biocommons Computing Center</b> Co-director of facility for bioinformatics research, education and support for the University of Washington	Seattle, WA
-----------	---	-------------

	<b>University of Washington School of Medicine</b>	Seattle, WA
2001-2003	Acting Assistant Professor of Otolaryngology-Head & Neck Surgery	
2003-2008	Assistant Professor of Otolaryngology-Head & Neck Surgery	
2008-present	Associate Professor of Otolaryngology-Head & Neck Surgery	
2011-2012	Adjunct Associate Professor of Biomedical Informatics and Medical Education	
2012-present	Associate Professor of Biomedical Informatics and Medical Education	
2006-2009	Residency Program Director, Dept. of Otolaryngology-Head & Neck Surgery	
2009-2011	Associate Program Director, Dept. of Otolaryngology-Head & Neck Surgery	
2002-present	UW School of Medicine College Faculty	
2009-2015	Head, Big Sky College, UW School of Medicine Colleges	
2013-2015	UW Medicine Epic Enterprise Specialty Implementation, Physician Adoption Lead	
2014-2015	Advisor to the UWSOM Associate Dean of Curriculum	
2015-present	Assistant Dean for Curriculum, UW School of Medicine	

### **Hospital and Affiliated Positions Held**

	<b>Fairbanks Memorial Hospital, Ear, Nose &amp; Throat Clinic</b>	Fairbanks, AK
1996-2000	Attending Physician in a single specialty private practice group	
	<b>Children's Hospital</b>	Boston, MA
2001	Research Fellow	
	<b>University of Washington Medical Center</b>	Seattle, WA
2001-2007	Attending Physician in Otolaryngology-Head & Neck Surgery	
	<b>Harborview Medical Center</b>	Seattle, WA
2001-present	Attending Physician in Otolaryngology-Head & Neck Surgery	
2007-2010	Acting Chief of Otolaryngology-Head & Neck Surgery	
2010-2016	Chief of Otolaryngology-Head & Neck Surgery	

### **Honors and Awards**

1982	National Merit Scholar
1990	Alpha Omega Alpha
1995	Chicago Laryngologic and Otologic Society, Lederer-Pierce Resident Research Competition - 1st Prize
2002	UW Dept. of Otolaryngology-Head and Neck Surgery Trachey Award: Faculty member that contributes most to resident research
2007	University of Washington School of Medicine Service Excellence Award
2009	American Academy of Otolaryngology-Head and Neck Surgery Honor Award
2009	Harborview CARES Award for Service Excellence

### **Board Certification**

1992	National Board of Medical Examiners
1997	American Board of Otolaryngology

### **Current Licenses**

2001-present	State of Washington Medical License
--------------	-------------------------------------

### **Professional Societies**

1997-present	American Academy of Otolaryngology - Head & Neck Surgery, Fellow
2000-present	American Medical Informatics Association, member
2006-present	Association for Surgical Education, member

2009-present American College of Surgeons, Fellow  
2012-2016 Learning Communities Institute, Treasurer  
2016-2017 Learning Communities Institute, President-elect

### **Special National Responsibilities**

2005-2010 American Academy of Otolaryngology-Head and Neck Surgery Medical Informatics Committee, member  
2010-present Learning Communities Institute Leadership Committee, member  
2012-present Learning Communities Institute, Treasurer  
2012-present Learning Communities Institute Financial Committee, Chair  
2012-present Learning Communities Institute Executive Council, member  
2016 Learning Communities Institute Annual Meeting Chair  
2016-2017 Learning Communities Institute, President-elect

### **Special Local Responsibilities**

2003-2007 UWMC ORCA (Online Record for Clinical Activity) Physicians Advisory Committee, member  
2003-2005 UWSOM Oral and Systemic Health Theme Committee, member  
2006-2009 UW Dept of Oto/HNS Residency Education Committee, Chair  
2009-2016 UW Dept of Oto/HNS Residency Education Committee, member  
2007-2016 HMC Medical Executive Board, member  
2007-2016 HMC Ambulatory Care Council, member  
2007-2016 HMC Surgical Council, member  
2007-2016 HMC Trauma Council, member  
2008-2011 UW Institutional Resident/Fellow Advisory Committee, member  
2010-2016 UW Sleep Institute Oversight Committee, member  
2010-2011 UW Medicine Duty Hours Task Force, member  
2010-2011 UW Medical Education and Biomedical Informatics Advisory Committee, member  
2010-2011 UW School of Medicine Pre-Curriculum Review Committee, member  
2010-2011 UW Vice-Dean of Academic Affairs Search Committee, member  
2011 UW Second Year Curriculum Expansion Committee, Chair  
2011 UW Chair of Family Medicine Search Committee, member  
2011 UW Telehealth Task Force, member  
2011 UW Telehealth Education Subcommittee, member  
2011-2012 UW Tracking Student Concerns committee, member  
2011-2012 UW Physician Re-Entry Task Force, member  
2012 UW School of Medicine Director of Career Advising Search Committee, member  
2012 UW Chair of Biomedical Informatics and Medical Education Search Committee, member  
2012 UWSOM Vice Dean of Student Affairs Search Committee, member  
2012-2014 WWAMI Strategic Communications Committee, member  
2012-2014 UWSOM Curriculum Oversight Committee, Colleges representative  
2012-2014 UWSOM Curriculum Renewal Steering Committee, co-Chair  
2013-2014 UWSOM Patient Care Phase Development Committee, co-Chair  
2013-2016 UW Dept of Oto/HNS Clinical Competency Committee, member  
2014 UW School of Medicine/School of Dentistry Curriculum Integration Task Force, member  
2014-2015 UWSOM Curriculum Committee, Academic co-Chair  
2015-present UWSOM Curriculum Committee, member  
2014-2016 UWSOM Faculty Council on Academic Affairs, member  
2015 Precision Medicine Faculty search committee, member  
2016 Laryngology Faculty search committee, member

2016-present UWSOM Patient Care Phase Committee, Executive co-Chair  
2016-present UWSOM Explore and Focus Phase Committee, Executive co-Chair  
2016-present UWSOM Scholarship Sub-Committee, Chair  
2016-present UWSOM Learning Environment Committee, co-Chair

### **Teaching Responsibilities**

Co-director of BioCommons Computing Center, 2003-4

Provide education and training in bioinformatics theory and software for the University of Washington research community.

College faculty for UW School of Medicine. 2002-present

Responsibilities include, for first to fourth year medical students:

- Teaching and monitoring clinical skills development, professionalism and ethics,
- Academic and career counseling and mentoring,
- Integrating core clinical skills, professionalism topics and ethics into both preclinical and clinical rotations,
- Development and administration of the observed structured clinical skills examinations (OSCEs) and the fourth-year Capstone course.
- Instructor for the second year medical school Introduction to Clinical Medicine II courses.

Head, Big Sky College, 2009-2015

Responsibilities include:

- General administration of the Colleges including the vertical clinical curriculum
- Big Sky College administration including oversight of student and faculty performance and faculty development
- Liaison to the students, faculty and state legislature at the Montana WWAMI site
- Further the work of the Colleges by presenting the Colleges regionally and nationally, facilitating scholarly work, identifying resources to support the Colleges

Core faculty instructor

HuBio 542, 550, 560: Introduction to Clinical Medicine II, 2002-2016

Responsibilities include teaching a year-long course of clinical skills, professionalism and ethics to a small group of 6 second year medical students in a bed-side setting, one morning each week throughout the academic year. Clinical skills include advanced physical exam techniques, communication skills, oral case presentations, written documentation and clinical reasoning.

Foundations of Clinical Medicine, 2015-present

FCM is an 18 month course that spans the entire Foundations phase of the curriculum and takes the place of the previous ICM I and II. Responsibilities include a half-day a week of bedside teaching with a small group in the inpatient setting focused on history taking, physical examination, oral case presentation, written documentation, and clinical reasoning, and a half-day a week of small group sessions focused on the development of clinical skills, communication and professional identity.

Course director

BIME 591C: Cancer, Stochastic Models and Mathematical Biology, 2014-5

Lecturer

HuBio 353P: Introduction to Clinical Medicine I, 2002-2015

CONJ 516: Oral Health elective, lecturer, 2005-6

Capstone Course for fourth year medical students, 2004-present  
Immersion Course for entering medical students, 2015-present

#### Examiner

Observed Structured Clinical Examinations for 2<sup>nd</sup> year medical students, 2003-present

Director, UW Dept. of Otolaryngology-Head and Neck Surgery Resident Education Curriculum, 2003-2011

Responsibilities include developing an integrated curriculum incorporating key areas of medical knowledge in otolaryngology-head and neck surgery and the ACGME core competencies for residency training.

#### Educational Committees

UWSOM Colleges Informatics Working Group, co-chair, 2002-2010

UWSOM Colleges Physical Examination Working Group, member, 2003-2010

UWSOM Colleges Mentoring and Career Counseling Working Group, member, 2010-2013

UWSOM Colleges Scholarship and Evaluation Working Group, member, 2010-2016

#### **Mentoring Responsibilities**

##### University of Washington Medical Students

Serving as formal primary mentor throughout the four-year medical school curriculum.

This includes teaching clinical skills as part of the ICM II course, as well as teaching professionalism and ethics and providing mentoring and career counseling.

Courtenay Barlow, MD	2002-2005	Brianne Draney, MD	2002-2005
Anneliese Floyd, MD	2002-2005	Ken James, MD	2002-2005
Christine O'Conner, MD	2002-2005	Richard Smith, MD	2002-2006
Anita Afzali, MD	2002-2006	Tobe Harbard, MD	2002-2006
Jody Hunt, MD	2002-2006	Rebecca Mallo, MD	2002-2006
James Ronald, MD, PhD	2002-2009	David Spencer, MD, PhD	2002-2010
Maegan Ashworth, MD, PhD	2003-2013	Douglas Dightman, MD	2003-2007
Luke Grauke, MD	2003-2007	Alison Madsen, MD	2003-2007
Renee Umbdenstock, MD	2003-2007	Sudershan Singh, MD	2003-2008
Jennifer Gibson, MD	2004-2009	Gregory Haveman, MD	2004-2008
Corey Holly	2004-2007	Marie Holzapfel, MD	2004-2008
Aaron Kusano, MD, MPH	2004-2010	Monique Mayo, MD	2004-2008
Andrea Christopher, MD	2005-2009	Caroline Lynch, MD	2005-2009
Christina Marchion, MD	2005-2010	David Nickerson, MD	2005-2010
Grace Marx, MD, MPH	2005-2010	Dick Hwang, MD, PhD	2005-2008
Ern Loh, MD, PhD	2005-2008	Wonsuk Kim, MD	2005-2009
Amy Van deWilde, MD	2006-2010	Steve Oh	2006-2010
Elise Pletnikov, MD	2006-2010	Yekaterina Batilova, MD	2006-2011
Laura Bovee, MD	2007-2012	Elizabeth Hankinson, MD	2007-2011
Lindsay Hoffman, MD	2007-2011	Joseph Bavaro, MD	2007-2011
Brian Buckingham	2007-2010	Zachary DeBoard, MD	2007-2011
Eric Alcid, PhD	2008-present	Amy Cheney, MD	2008-2012
Benjamin Davis, MD	2008-2012	Kelly Haisley, MD	2008-2012
Jeannie Nguyen, MD, MPH	2008-2013	Renna Short, MD	2008-2012
Delaney Conway, MD	2009-2013	Corinne Shubin, MD	2009-2013
Sonya Tat, MD	2009-2013	Colin Teteak	2009-present
Ryan Wallace, MD, MPH	2009-2014	Jennifer Wilkinson, MD	2009-2013
Lauren Campbell, MD, MPH	2010-2015	Thomas Gallagher, MD	2010-2015

Genesis Han, MD	2010-2014	Kristine Tan, MD	2010-2014
Nicholas Welter, MD	2010-2015	Bryan Wilson, MD	2010-2014
Meghan Combs, MD	2011-2015	Xiaohua Feng, MD	2011-2015
Jessica Horras, MD	2011-2015	Michael Keating, MD	2011-2015
Adam Nishimura, MD, MS	2011-2016	Natalie Vandeven	2011-present
Travis Marshall, MD	2012-2016	Samantha Moen, MD	2012-2016
Mark Schaefer, MD	2012-2016	Martina Tam	2012-present
Matthew Peters	2013-present	Cameron Scranton	2013-present
Whitney Wright	2013-present	Elizabeth Auld	2013-present
Samuel Sussman	2013-present	Mathini Mohanachandran	2013-present
Adinda Demske	2014-present	Joshua Frankland	2014-present
Rachel Nakanishi	2014-present	McHale Anderson	2014-present
Tara Will	2014-present	Michael Shapiro	2015-present
Amelia Gallaher	2015-present	David Olsen	2015-present
Nicholas Popp	2015-present	Cara Saxon	2015-present
Miao Yu	2015-present	Elizabeth Chang	2016-present
Jacob Hornbuckle	2016-present	Joshua Monson	2016-present
Amanda Seely	2016-present	Hailey Theeuwes	2016-present

#### Otolaryngology-Head and Neck Surgery Residents

Amit Bhrany, MD	2003-2007
Elizabeth Hahn, MD	2014-present

#### Research Advisor

Courtenay Barlow, MD (MD student)	2002-2005
Zachary DeBoard, MD (MD student)	2008-2010
Hyunggu Jung, MS (Biomedical informatics PhD student)	2014-present
Lucy Wang, MS (Biomedical informatics PhD student)	2014-present
Anthony Law, MD, PhD (Oto/HNS resident)	2015-present
Esther Wu (Biomedical informatics MS student)	2015-present
Elizabeth Hahn, MD (Oto/HNS resident)	2016-present
Melissa Clarkson, PhD (Biomedical informatics post-doc)	2016-present

### **Research Funding**

2015-2016	Principal Investigator R21 LM012075 “Meta-modeling methods for biological processes” NLM Total Award Amount: \$408,414
2014-2015	Co-Principal Investigator R21 LM012075 “Meta-modeling methods for biological processes” NLM PI: Ira Kalet, PhD
2006-2009	Subcontract, 5% FTE R01 DE016809 “Transmission and Acquisition of KSHV” NIDCR PI: Jeff Vieira, PhD

- 2003-5 Co-Principal Investigator  
Virginia Merrill Bloedel Research Mini-Grant  
“Genomics of Vestibular Schwannoma”  
PI: Robert Rostomily, MD
- 2002-3 Co-Principal Investigator  
UW Tools for Transformation Grant  
“The BioCommons Computing Center: Shared Bioinformatics Research  
Tools and Support Services”  
PI: Roger Bumgarner, PhD
- 2001 Post-doctoral Training Grant  
U01 HL066582-01  
"Genomics of Cardiovascular Development, Adaptation, and Remodeling" –  
NHLBI  
PI: Seigo Izumo, MD

## **Bibliography**

### **Manuscripts in Refereed Journals**

1. Kumar A, Mafee M, Dobben G, **Whipple ME**, Pieri A. Diagnosis of vertebrobasilar insufficiency: time to rethink established dogma? Ear Nose Throat J. 1998 Dec;77(12):966-9,972-4. PMID: 9879136
2. **Whipple ME**, Kuo WP. DNA microarrays in otolaryngology-head and neck surgery. Otolaryngol Head Neck Surg. 2002 Sep;127(3):196-204. PMID: 12297810
3. Kuo WP, **Whipple ME**, Sonis ST, Ohno-Machado L, Jenssen TK. Gene expression profiling by DNA microarrays and its application to dental research. Oral Oncol. 2002 Oct;38(7):650-6. PMID: 12353490
4. Kalet IJ, **Whipple M**, Pessah S, Barker J, Austin-Seymour MM, Shapiro LG. A rule based model for local and regional tumor spread. Proc AMIA Symp. 2002: 360-4. PMID: 12463847
5. Teng CC, Austin-Seymour MM, Barker J, Kalet IJ, Shapiro LG, **Whipple M**. Head and neck lymph node region delineation with 3-D CT image registration. Proc AMIA Symp. 2002: 767-71. PMID: 12463928
6. Kuo WP, **Whipple ME**, Jenssen TK, Todd R, Epstein JB, Ohno-Machado L, Sonis ST, Park PJ. Microarrays and clinical dentistry. J Am Dent Assoc. 2003 Apr;134(4):456-62. PMID: 1273379
7. Kuo WP, Mendez E, Chen C, **Whipple ME**, Farwell DG, Agoff N, Park PJ. Functional relationship between gene pairs in oral squamous cell carcinoma. Proc AMIA Symp. 2003; 371-5. PMID: 14728197
8. Kuo WP, **Whipple ME**, Epstein JB, Jenssen TK, Santos GS, Ohno-Machado L, Sonis ST. Deciphering gene expression profiles generated from DNA microarrays and their applications

in oral medicine. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod.* 2004 May;97(5):584-91. PMID: 15153870

9. Lee S, **Whipple M**. Metastatic renal cell carcinoma to the nasal cavity. *Am J Otolaryngol.* 2004 Jul-Aug;25(4):255-7. PMID: 15239032
10. **Whipple ME**, Mendez E, Farwell DG, Agoff SN, Chen C. A genomic predictor of oral squamous cell carcinoma. *Laryngoscope.* 2004 Aug;114(8):1346-54. PMID: 15280706
11. **Whipple ME**, Mendez E, Farwell DG, Chen C. A log likelihood predictor for genomic classification of oral cancer using principal component analysis for feature selection. *Stud Health Technol Inform;*2004: 823-8. PMID: 15360927
12. Lee S, Maronian N, Most SP, **Whipple ME**, McCulloch TM, Stanley RB, Farwell DG. Porous high-density polyethylene for orbital reconstruction. *Arch Otolaryngol Head Neck Surg* 2005; 131: 446-450. PMID: 15897425
13. Kuo WP, Liu F, Trimarchi J, Punzo C, Lombardi M, Sarang J, **Whipple ME**, Maysuria M, Serikawa Lee KSY, McCrann D, Kang J, Shearstone JR, Burke J, Park DJ, Wang X, Ricciardi-Castagnoli P, Perrin S, Choi S, Bumgarner R, Kim JH, Short III GF, Freeman MW, Seed B, Jensen R, Church GM, Hovig E, Cepko CL, Park P, Ohno-Machado L, Jenssen TK. A sequence oriented comparison of gene expression measurements across different hybridization-based technologies. *Nat Biotechnol.* 2006 Jul;24(7):832-40. PMID: 16823376
14. **Whipple ME**, Barlow CB, Smith S, Goldstein EA. Early introduction of clinical skills improves medical student comfort at the start of third year clerkships. *Acad Med.* 2006 Oct;81(10 Suppl):S40-3. PMID: 17001132
15. Benson N, **Whipple M**, Kalet IJ. A markov model approach to predicting regional tumor spread in the lymphatic system of the head and neck. *AMIA Annu Symp Proc.* 2006:31-5. PMID: 17238297
16. Mendez E, Fan W, Choi P, Agoff SN, **Whipple M**, Farwell DG, Futran N, Weymuller EA, Zhao LP, Chen C. Tumor-specific genetic expression profiles of metastatic oral squamous cell carcinoma. *Head Neck.* 2007 Sep;29(9):803-14. PMID: 17573689
17. Cheng AG, Deubner H, **Whipple ME**. Melanoacanthoma of the external auditory canal: a case report and review of the literature. *Am J Otolaryngol.* 2007 Nov-Dec;28(6):433-5. PMID: 17980780
18. Hasina R, **Whipple ME**, Martin LE, Kuo WP, Ohno-Machado L, Lingen MW. Angiogenic heterogeneity in head and neck squamous cell carcinoma: biological and therapeutic implications. *Lab Invest.* 2008 Apr;88(4):342-53. PMID: 18283272
19. Kalet IJ, Mejino JL, Wang V, **Whipple M**, Brinkley JF. Content-specific auditing of a large scale anatomy ontology. *J Biomed Inform.* 2009 Jun;42(3):540-9. PMID: 19248842
20. Seifi A, Weaver EM, **Whipple ME**, Ikoma M, Feffenberg JM, Huang ML, Vieira J. The lytic activation of KSHV during keratinocyte differentiation is dependent upon a suprabasal position, the loss of integrin engagement, and calcium, but not the interaction of cadherins. *Virology.* 2011 Feb 5;410(1):17-29. PMID: 21084105

21. Wang LL, Grunblatt E, Jung H, Kalet IJ, **Whipple ME**. Biological model development as an opportunity to provide content auditing for the Foundational Model of Anatomy ontology. *AMIA Annu Symp Proc*. 2015 Nov 5;2015:2111-20. PMID: 26958311
22. Strub GM, Kirsh AL, **Whipple ME**, Kuo WP, Keller RB, Kapur RP, Perkins JA, Majesky MW, Perkins JA. Endothelial and circulating C19MC microRNAs are biomarkers of infantile hemangioma. *JCI Insight*. 2016;1(14).

### **Other Publications**

1. Toriumi DM, Woolford TJ, **Whipple ME**. Difficult decisions in rhinoplasty. *Operative Techniques in Otolaryngology - Head and Neck Surgery*. 1995;6(4):274-303.
2. **Whipple ME**, Kohane IS. Reproducibility of gene expression clustering across different microarray technologies. *Master of Science in Medical Informatics Thesis, Massachusetts Institute of Technology, Cambridge, MA*. 2001.
3. Kubo M, McCulloch TM, **Whipple M**, Cohen W, Anzai Y, Raske M, Kim P. A reclassification of temporal bone fractures and its association with facial nerve injury. *J Investig Med* 2006 54;Suppl 1(205).
4. LaCourse MR, **Whipple M**, Hume C, Scott JD, Sardesai MG. Prospective cohort study of remote ear disease diagnosis using a smartphone otoscope. *J Investig Med* 2016;64:273-4.

### **Manuscripts in press**

1. Jung H, Law A, Grunblatt E, Wang LL, Kusano A, Mejino JLV, **Whipple ME**. Development of a novel markov chain model for the prediction of head and neck squamous cell carcinoma dissemination. Accepted by *Proc AMIA Symp*.
2. Patel SA, Berens A, Devarajan K, **Whipple M**, Moe KM. Minimally disruptive management of frontal sinus fractures – implementing a protocol for functional preservation. Accepted by *JAMA Facial Plastic Surgery*.

### **Submitted Manuscripts**

1. Kost A, **Whipple M**, Smith S. Motivating medical students in competency based education: linking identity formation to milestone achievement. Submitted to *Acad Med*.

### **Abstracts, Papers, Posters Presented at National and International Meetings**

- 2016 Jung H, Law A, Wu E, **Whipple ME**. Coordinated markov modeling of cancer metastasis from multiple primary sites. Podium presentation at the Asia Pacific Association for Medical Informatics meeting, Seoul South Korea.
- 2016 Wang LL, Grunblatt E, **Whipple ME**. Auditing tree-like organ systems in the FMA using network motifs. Poster presentation at the American Medical Informatics Association annual symposium, Chicago IL.

- 2016 Jung H, Law A, Grunblatt E, Wang LL, Kusano A, Mejino JLV, **Whipple ME**. Development of a novel markov chain model for the prediction of head and neck squamous cell carcinoma dissemination. Podium presentation at the American Medical Informatics Association annual symposium, Chicago IL.
- 2016 Law AB, Jung H, Grundblatt E, Wang LL, **Whipple ME**. A model of regional tumor metastasis of squamous cell carcinoma of the tongue. Podium presentation at the AHNS 9<sup>th</sup> International Conference on Head and Neck Cancer, Seattle WA.
- 2016 LaCourse MR, **Whipple M**, Hume C, Scott JD, Sardesai MG. Prospective cohort study of remote ear disease diagnosis using a smartphone otoscope. Podium presentation at the Western Student and Resident Medical Research Forum, Carmel CA.
- 2015 Wang LL, Grunblatt E, Jung H, Kalet IJ, **Whipple ME**. Biological model development as an opportunity to provide content auditing for the Foundational Model of Anatomy ontology. Podium presentation at the American Medical Informatics Association Annual Symposium, San Francisco CA.
- 2015 Wang LL, Grunblatt E, Jung H, **Whipple ME**, Kalet IJ. Biological model creation as ontological auditing for the Foundational Model of Anatomy. Poster presentation at the National Library of Medicine, Bethesda MD.
- 2007 Kubo M, McCulloch TM, **Whipple M**, Cohen W, Anzai Y, Raske M, Kim P. A reclassification of temporal bone fractures and its association with facial nerve injury. Poster presentation at the Triological Society Combined Section Meeting, Marco Island, FL.
- 2006 Benson N, **Whipple M**, Kalet IJ. A markov model approach to predicting regional tumor spread in the lymphatic system of the head and neck. Podium presentation at the American Medical Informatics Association, Washington, DC.
- 2006 **Whipple ME**, Barlow CB, Smith S, Goldstein EA. Early introduction of clinical skills improves medical student comfort at the start of third year clerkships. Podium presentation at the American Association of Medical Colleges, Seattle, WA.
- 2006 Kubo M, McCulloch TM, **Whipple M**, Cohen W, Anzai Y, Raske M, Kim P. A reclassification of temporal bone fractures and its association with facial nerve injury. Podium presentation at the American Roentgen Ray Society, Vancouver, BC.
- 2004 **Whipple ME**, Mendez E, Farwell DG, Chen C. A log likelihood predictor for genomic classification using principal component analysis for feature selection. Podium presentation at the Medinfo Symposium, San Francisco CA.
- 2004 Mendez E, Fan WH, Choi P, Agoff SN, Farwell DG, **Whipple M**, Futran N, Weymuller EA, Maronian N, Zhao LP, Chen C. Genetic markers for metastasis of the oral squamous cell carcinoma to the cervical lymph nodes. Podium presentation at the 6<sup>th</sup> International Conference on Head and Neck Cancer, Washington DC.
- 2004 Lee S, Futran NF, Yueh BY, Most SP, Maronian NM, **Whipple ME**, McCulloch TM, Stanley RB, Farwell DG. Use of MEDPOR at Harborview Medical Center for orbital reconstruction. Podium presentation at the AO ASIF Advanced Symposium, Sun Valley ID.

- 2004 **Whipple ME**, Mendez E, Farwell DG, Chen C. A genomic predictor of oral squamous cell carcinoma using principal component analysis. Podium presentation at the Triological Society Western Section Meeting, Scottsdale AZ.
- 2003 Kuo WP, Mendez E, **Whipple ME**, Ohno-Machado L, Park PJ. Functional relationship between gene pairs in oral squamous cell carcinoma. Podium presentation at the American Medical Informatics Association Symposium, Washington DC
- 2002 Kalet IJ, **Whipple ME**, Pessah S, Barker J, Austin-Seymour MM, Shapiro LG. A rule based model for local and regional tumor spread. Podium presentation at the American Medical Informatics Association Symposium, San Antonio TX.
- 2002 Teng CC, Austin-Seymour MM, Barker J, Kalet IJ, Shapiro LG, **Whipple ME**. Head and neck lymph node region delineation with 3-D CT image registration. Podium presentation at the American Medical Informatics Association Symposium, San Antonio TX.
- 2002 Austin-Seymour MM, Barker JL, **Whipple M**, Pessah S, Shapiro LG, Kalet IJ. Algorithm for selection of clinical target volume in clinically node-negative head and neck cancers treated with conformal radiotherapy/IMRT. Podium presentation at the American Society for Therapeutic Radiation and Oncology, New Orleans LA.
- 2002 Barker JL, Austin-Seymour MM, Kalet IJ, **Whipple ME**, Teng CC, Shapiro LG. Automated delineation of regional target volumes for patients with head and neck cancer treated conformally. Podium presentation at the American Society for Therapeutic Radiation and Oncology, New Orleans LA.
- 2002 Schinke M, Shioi T, Kim JH, Riggi L, Chen IB, Quing N, **Whipple M**, Kong S, Converso KL, Kohane IS, Izumo S. Microarray-based analysis of gene expression during pressure-overload induced cardiac hypertrophy. Podium presentation at Cold Spring Harbor Laboratory, Cold Spring Harbor NY.
- 1997 **Whipple ME**, Mingrone M, Toriumi DM. An analysis of aerosols produced by dermabrasion and CO<sub>2</sub> laser resurfacing. Poster presentation at the American Academy of Facial Plastic and Reconstructive Surgery, San Francisco CA.
- 1995 **Whipple ME**, Toriumi DM. An analysis of aerosols produced by dermabrasion. Podium presentation at the American Academy of Otolaryngology - Head and Neck Surgery, New Orleans LA.
- 1994 **Whipple ME**, Kotler HS, Tardy ME, Toriumi DM. A computerized system for graphic record keeping in rhinoplasty. Podium presentation at the American Academy of Facial Plastic and Reconstructive Surgery, Palm Beach FL.

### **Submitted abstracts/posters**

- 2016 Woodiwiss T, **Whipple M**, Wu P. Student satisfaction and the value of participation in a structured medical student research program. Submitted to J Investig Med.

2016 Wicks E, **Whipple ME**, Moe KM. Opening the black box of nasal osteotomies: navigation-guided rhinoplasty. Submitted to Combined Otolaryngology Spring Meeting.

### **Invited Lectures – International/National**

2015 “A Stepwise Approach to Facial Trauma.” (panel moderator) Northwest Academy of Otolaryngology, Whistler BC

2013 “Optimize Patient Education for Patient Satisfaction.” Miniseminar Presentation at American Academy of Otolaryngology – Head & Neck Surgery, Vancouver BC

2009 “Sleep Apnea Examination: A Hands-on Course.” Sleep 2009: 23<sup>rd</sup> Annual Meeting of the Associated Professional Sleep Societies, Seattle WA

2008 “Electronic Medical Records for the Otolaryngologist.” American Academy of Otolaryngology-Head and Neck Surgery, Chicago IL

2008 “Applications of Oncogenomics/Proteomics in Head and Neck Cancer Research.” 7<sup>th</sup> International Conference on Head and Neck Cancer, San Francisco, CA

2007 “Electronic Medical Records for the Otolaryngologist.” American Academy of Otolaryngology-Head and Neck Surgery, Washington, DC

2006 “Electronic Medical Records for the Otolaryngologist.” American Academy of Otolaryngology-Head and Neck Surgery, Toronto, ON

2005 “Electronic Medical Records for the Otolaryngologist.” American Academy of Otolaryngology-Head and Neck Surgery, Los Angeles, CA

2004 “Bioinformatics for International Collaborations in Head and Neck Cancer.” University of Washington International Head & Neck Cancer Conference, Seattle WA

2003 “Genomics, Proteomics and DNA Microarrays.” American Academy of Otolaryngology-Head and Neck Surgery, Orlando FL

2002 “Genomics and DNA Microarrays.” American Academy of Otolaryngology-Head and Neck Surgery, San Diego CA

### **Invited Lectures – Local/Regional**

2016 “Future Directions in Medical Education.” Evergreen Health Annual Retreat, Kirkland WA

2010 “Hereditary Hemorrhagic Telangiectasia.” University of Washington Chief of Medicine Rounds, Seattle WA

2009 “Temporal Bone Trauma.” Harborview Trauma Conference, Seattle WA

2006 “Sinonasal Disease: An Environmental and Occupational Health Perspective.” Grand Rounds, University of Washington Dept. of Environmental and Occupational Health, Seattle WA

2003 “Genomics, Bioinformatics and Microarrays.” Northwest Radiobiology Course, Seattle  
WA