

Curriculum Vitae

Karen Jean Fong, M.S., M.D.

California Sinus Institute
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CURRENT POSITIONS:

9/07-present Physician & Surgeon
California Sinus Institute, Palo Alto, CA and San Ramon, CA

Co-Director, CSI Advanced Sinus Surgery and Rhinology Fellowship

PAST POSITIONS:

1999-2007 Assistant Professor, Department of Otolaryngology-Head and Neck Surgery
Oregon Health and Science University, Portland, Oregon

1997-1999 Instructor, Department of Otolaryngology-Head and Neck Surgery
Northwestern University Medical School, Chicago, Illinois

EDUCATION

1988-92 Baylor College of Medicine, Houston, Texas
Doctor of Medicine

1987-88 Stanford University, Stanford, California
Master of Science, Biological Sciences

1983-88 Stanford University, Stanford, California
Bachelor of Science, Biological Sciences

Postgraduate and Residency Training:

1997-1999 NIH Postdoctoral Research Fellowship
National Research Service Award
Department of Otolaryngology-Head and Neck Surgery
Northwestern University Medical School
Chicago, Illinois

1994-1997 Residency, Department of Otolaryngology-Head and Neck Surgery
Northwestern University Medical School

- Chicago, Illinois
- 1993-1994 Residency, Department of Surgery
Northwestern University Medical School
Chicago, Illinois
- 1992-1993 Internship, Department of Surgery
Northwestern University Medical School
Chicago, Illinois

PROFESSIONAL EXPERIENCE

Licensure and Certification

- Diplomate, American Board of Otolaryngology
Oregon Medical License
California Medical License
Fellow, American College of Surgeons
Fellow, American Rhinologic Society

HONORS/AWARDS/FUNDED RESEARCH

Honors and Awards

- 2006 Teacher of the Year Award, OHSU Department of Otolaryngology-Head and Neck Surgery
- 2005 Honor Award, American Academy of Otolaryngology-Head and Neck Surgery Foundation
- 1999 16-time ROSE award winner (Recognizing Outstanding Service Excellence), OHSU.
- 2002 First place, poster presentation, Society of Otolaryngology-Head and Neck Surgery Nurses annual meeting, San Diego, CA.
- 1997 Second Place Award, Chicago Laryngological and Otological Society
Lederer-Pierce Resident Research Competition
- 1997 First Place Award, Northwestern University Medical School, Department of Otolaryngology Resident Research Symposium
- 1996 First Place Award, Northwestern University Medical School, Department of Otolaryngology Resident Research Symposium

Funded Research

- 2002 Influence of estrogen on maturation of olfactory neurons
Principal Investigator: Karen J. Fong, MD
Award: \$25,000/24 mos.
The American Rhinologic Society New Investigator Research Grant
- 2002 Effects of estrogen on olfactory receptor neurons
Principal Investigator: Karen J. Fong, MD

Award: \$30,000/12 mos.
 Medical Research Foundation of Oregon

1997 Olfactory Na, K –ATPase: Regulation by Corticosteroids.
 Principal Investigator: Karen J. Fong, MD.
 Award: \$24,994/12 mos.
 The Triological Society Research Training Award

PROFESSIONAL SERVICE

Committees: National

2007-2010 Board of Directors, American Rhinologic Society
 2007-2013 Rhinology and Allergy Education Committee, American Academy of Otolaryngology-HNS Foundation
 2007-2013 Home Study Course, American Academy of Otolaryngology-HNS Foundation
 2005-08 National Study Section, Centralized Otolaryngology Research Efforts (CORE), American Academy of Otolaryngology-Head and Neck Surgery Foundation
 2006-present Program Committee, American Rhinologic Society
 2004-2007 Chair, Membership Committee, American Rhinologic Society
 2004-present Newsletter Committee, American Rhinologic Society
 2001-2007 SIPAC Committee, American Academy of Otolaryngology-Head and Neck Surgery Foundation
 2001-2005 Allergy and Immunology Committee, American Academy of Otolaryngology-Head and Neck Surgery Foundation
 2001-2004 Research Awards Committee, American Rhinologic Society
 2002-2005 Credentials Committee, American Rhinologic Society
 2004 Nominating Committee, American Rhinologic Society
 2001-2003 Research Development and Liaison Subcommittee, American Academy of Otolaryngology-Head and Neck Surgery Foundation

Committees: Regional

2004-2007 Chair, Program Committee, Oregon Academy of Otolaryngology
 2000-2006 Advisory Council on Hearing Aids, State of Oregon
 Appointed by Governor John A. Kitzhaber

Committees: Institutional/Departmental

2006-2007 Residency Advisory Committee, OHSU
 2003-2007 Women's Liaison Officer, American Association of Medical Colleges
 Appointed by Joseph Robertson, M.D., Dean of Medicine, OHSU
 2001-2007 Chairman, Resident Research Committee, Department of Otolaryngology, OHSU
 2001-2003 Women in Academic Medicine Committee
 Appointed by Joseph Bloom, MD, Dean of Medicine, OHSU

Editorial and Ad Hoc Review Activities

Guest Editor, *Otolaryngologic Clinics of North America*

Issue title: "Olfaction and Taste", December 2004.

Reviewer, *American Journal of Rhinology*

Reviewer, *Laryngoscope*

PROFESSIONAL ORGANIZATIONS

American Academy of Otolaryngology-Head and Neck Surgery

American College of Surgeons

American Rhinologic Society

Association for Research in Otolaryngology

Association for Chemoreception Sciences

American Academy of Otolaryngic Allergy

Society of University Otolaryngologists

Oregon Academy of Otolaryngology

Oregon Medical Association

PUBLICATIONS

Original articles

Jerger J, Ali A, Fong K, Tseng E: Otoacoustic emissions, audiometric sensitivity loss, and speech understanding: a case study. *J Am Acad Audiol.* 1992; 3: 283-286.

Fong KJ, Kaplan SL: The use of intravenous immunoglobulin in Kawasaki disease. *Seminars in Pediatric Infectious Diseases.* 1992; 3: 174-178.

Shaw RD, Fong KJ, Losonsky GA, Levine MM, Maldonado Y, Yolken R, Flores J, Kapikian AZ, Vo PT, Greenberg HB: Epitope-specific immune responses to rotavirus vaccination. *Gastroenterology.* 1987; 93: 941-50.

Fong KJ and Dunham ME: Inflammatory diseases of the pediatric airway. *Current Opinions in Otolaryngology-Head and Neck Surgery.* 1996;4: 429-433.

Robinson AM, Kern RC, Foster JD, Fong KJ, Pitovski DZ: Expression of glucocorticosteroid receptor protein in the olfactory mucosa: physiologic and pathophysiologic implications. *Laryngoscope,* 1998;108(8): 1238-1242.

Fong KJ, Kern RC, Foster JD, Zhao JC, Pitovski DZ: Olfactory secretion and sodium, potassium-adenosine triphosphatase: regulation by corticosteroids. *Laryngoscope,* 1999;109(3): 383-388.

Zacharek MA, Hwang PH, Fong KJ: The office management of recalcitrant rhinosinusitis. *Otolaryngologic Clinics of North America,* 2004; 37(2): 365-79.

Hadley K, Orlandi RR, Fong KJ: Basic anatomy and physiology of olfaction and taste. *Otolaryngologic Clinics of North America*. 2004; 37(6):1115-26.

Han JK, Smith TL, Loehrl TA, Fong KJ, Hwang PH: Surgical revision of the post-Caldwell-Luc maxillary sinus. *American Journal of Rhinology*, 2005; 19(5):478-82.

Hwang PH, Han JK, Bilstrom EJ, Kingdom TT, Fong KJ: Surgical revision of the failed obliterated frontal sinus. *American Journal of Rhinology*, 2005; 19(5):425-9.

Ghaheri BA, Fong KJ, Hwang PH: The utility of bipolar electrocautery in hereditary hemorrhagic telangiectasia: a preliminary report. *Otolaryngology-Head and Neck Surgery*, 2006; 134(6):1006-9.

Hwang PH, Woo RJ, Fong KJ: Intranasal deposition of nebulized saline: A radionuclide distribution study. *American Journal of Rhinology*, 2006; 20(3): 255-61.

Zacharek MA, Fong KJ, Hwang PH: Image-guided frontal trephination: A minimally invasive approach for hard-to-reach frontal sinus disease. *Otolaryngology-Head and Neck Surgery*, 2006; 135(4): 518-22.

Fong KJ, Kern RC, Zhao JC, Bedoya O, Pitovski DZ: Sodium- and potassium-activated ATPase in the mammalian olfactory mucosa, submitted.

Shiley SG, Trune D, Fong KJ: Synaptic connections to the olfactory bulb under varying estrogen conditions, in revision.

Fong KJ, Woo RJ, Trune D: Effect of estrogen on olfactory neuron proliferation, in revision.

Book chapters

Andersen PE, Fong, KJ, Schleuning AJ: "Otologic Manifestations of Systemic Diseases." In: Bailey, et al. (eds): *Head and Neck Surgery-Otolaryngology*, third edition, Philadelphia, Lippincott Williams & Wilkins, 2001, pp 1859-1868.

Fong KJ and Zacharek MA: "Olfaction and Aging" In: Calhoun KH, et al (eds): *Geriatric Otolaryngology*, New York, Taylor & Francis Group, 2006, pp 173-180.

Multimedia/Electronic publications

Shiley S, Fong KA, Hwang PH. "Epistaxis." EBM Solutions evidence-based medicine reference module; www.ebmsolutions.com.

PRESENTATIONS

Oral Presentations

- 9/06 Ghaheri BA, Fong KJ, Hwang PH: The utility of bipolar electrocautery in hereditary hemorrhagic telangiectasia. American Academy of Otolaryngology-Head and Neck Surgery annual meeting, Los Angeles, CA.
- 5/05 Fong KJ, Woo RJ, Trune D: Effect of estrogen on olfactory neuron proliferation. American Rhinologic Society spring meeting, COSM, Boca Raton, FL.
- 9/03 Shiley SG, Trune D, Fong KJ: Effect of estrogen on olfactory neuron connections to the olfactory bulb. American Rhinologic Society Fall Meeting, Orlando, FL.
- 5/03 Han JK, Smith TL, Loehrl TA, Fong KJ, Hwang PH: Management of late sequelae of the Caldwell-Luc procedure. American Rhinologic Society spring meeting, COSM, Nashville, TN.
- 5/03 Han JK, Bishop BD, Fong KJ, Hwang PH: Outcomes of endoscopic rhinologic surgical procedures performed in the office setting. American Rhinologic Society spring meeting, COSM, Nashville, TN.
- 9/02 Sanders AL, Fong KJ, Hwang PH: Endoscopic sinus surgery in the older adult population. American Rhinologic Society fall meeting, San Diego, CA.
- 5/98 Fong KJ, Kern RC, Pitovski DZ: Corticosteroid regulation of olfactory mucus secretion: physiologic and pathophysiologic implications. 101st Annual Meeting of the American Laryngological, Rhinological and Otological Society, Palm Beach, FL.
- 4/98 Fong KJ, Kern RC, Pitovski DZ: Na, K -ATPase subunit isoform expression in olfactory mucosa under the influence of corticosteroids. Association for Chemoreception Sciences, Sarasota, FL.
- 9/97 Fong KJ, Kern RC, Pitovski DZ: Autoradiographic localization of Na, K -ATPase in the mammalian olfactory mucosa: influence of aldosterone. American Academy of Otolaryngology-Head and Neck Surgery annual meeting, San Francisco, CA.

Poster Presentations

- 2/06 Trune D, Kempton B, Fong KJ: Ovariectomy prevents hearing loss in autoimmune mice. Association for Research in Otolaryngology Midwinter meeting, Baltimore, MD.
- 9/02 McInnes RJA, Sanders AL, Fong KA, Hwang PH. Endoscopic sinus surgery in the older adult population. Society of Otolaryngology-Head and Neck Nurses annual meeting, San Diego, CA.

- 9/99 Fong KJ, Robinson AM, Kern RC, Pitovski DZ: Estrogen receptor expression in olfactory mucosa of steroid-treated rats. American Academy of Otolaryngology-Head and Neck Surgery annual meeting, New Orleans, LA.
- 4/99 Pitovski DZ, Fong KJ, Robinson AM, Kern RC: Apoptotic death of olfactory neurons during different estrogen conditions. Association for Chemoreception Sciences XXI, Sarasota, FL.
- 4/99 Robinson AM, Fong KJ, Kern RC, Pitovski DZ: Does estrogen protect olfactory neurons from apoptosis through up-regulation of the Bcl-2 proto-oncogene? Association for Chemoreception Sciences XXI . Sarasota, FL.
- 4/99 Fong KJ, Robinson AM, Kern RC, Pitovski DZ: Expression of estrogen receptor α (ER α) mRNA and protein in the olfactory mucosa. Association for Chemoreception Sciences XXI , Sarasota, FL.
- 2/99 Fong KJ, Robinson AM, Kern RC, Pitovski DZ: Expression of estrogen receptors in the mammalian olfactory mucosa. Association for Research in Otolaryngology Midwinter meeting, St. Petersburg, FL.
- 9/98 Kern RC, Conley DB, Fong KJ, Haines GK: Chronic rhinosinusitis and anosmia: pathologic changes in the olfactory mucosa. American Academy of Otolaryngology-Head and Neck Surgery annual meeting, San Antonio, TX.
- 4/98 Kern RC, Conley DB, Fong KJ, Haines GK: Olfactory pathology in chronic rhinosinusitis. Association for Chemoreception Sciences, Sarasota, FL.
- 2/98 Fong KJ, Kern RC, Pitovski DZ: Na, K -ATPase subunit isoform expression in the mammalian olfactory mucosa. Association for Research in Otolaryngology Midwinter Meeting, St. Petersburg, FL.
- 7/97 Fong KJ, Kern RC, Pitovski DZ: Regulation of Na, K -ATPase in the mammalian olfactory mucosa by aldosterone. Association for Chemoreception Sciences/International Society of Olfaction and Taste XII , San Diego, CA.
- 2/97 Fong KJ, Kern RC, Pitovski DZ: Autoradiographic localization of Na, K-ATPase in the mammalian olfactory mucosa. Association for Research in Otolaryngology Midwinter Meeting, St. Petersburg, FL.
- 9/96 Fong KJ, Kern RC, Foster J, Pitovski DZ: Aldosterone regulation of Na, K-ATPase activity in the mammalian olfactory mucosa. American Academy of Otolaryngology-Head and Neck Surgery annual meeting, Washington, DC.
- 9/95 Fong KJ, Kern RC, Foster J, Pitovski DZ: Corticosteroids and the olfactory mucosa. American Academy of Otolaryngology-Head and Neck Surgery annual meeting, New Orleans, LA.

- 5/88 Fong KJ, Castillo RO, et al.: Role of intraluminal insulin and insulin-like growth factor-I in intestinal growth and maturation. American Academy of Gastroenterology.

Conferences and Lectures:

- 1/07 “Chronic sinusitis in adults” Northwest Academy of Otolaryngology-HNS Mid-Winter Meeting, Whistler, BC
- 10/06 “Update in olfaction” Western States Rhinology Course, Sonoma, CA
- 10/06 “Adding allergy to your practice” Western States Rhinology Course, Sonoma, CA
- 4/06 “What’s new in the science of olfaction” Grand Rounds, Stanford University Department of Otolaryngology.
- 4/06 “Testing method in otolaryngic allergy: antigen selection.” Stanford University Department of Otolaryngology, resident teaching rounds.
- 3/06 “Basic science of olfaction and taste” AAOA Masters in Rhinology, Sonoma, CA
- 3/06 “Evaluation and management of smell and taste disorders” AAOA Masters in Rhinology, Sonoma, CA
- 2005-07 “Rhinitis” Lecture to Physician Assistant students, Oregon Health and Science University, annual.
- 10/04 “Medical Therapies in Rhinosinusitis: Antimicrobial”. Western States Rhinology Course, Sonoma, CA
- 10/04 “What’s New in Olfaction?” Western States Rhinology Course, Sonoma, CA
- 9/04 Panel: “Olfactory loss associated with nasal and sinus disease-conductive or sensory?” American Rhinologic Society Fall Meeting.
- 2000-06 “Management of Acute and Chronic Sinusitis” Lecture to 3rd year medical students, Oregon Health and Science University, annual.
- 2000-05 “Contemporary Management of Acute and Chronic Sinusitis” Lecture to Physician Assistant students, Oregon Health and Science University, annual.

- 2000-05 “Topographic anatomy of the head and neck” Facilitator of small group sessions to first year medical students, Gross Anatomy and Embryology, Oregon Health and Science University, annual.
- 1/04 “What’s New in the Science of Olfaction?” Midwinter Meeting, Northwest Academy of Otolaryngology, Whistler, British Columbia
- 10/03 “Radiology of the Sinuses”. Sinusitis for Primary Care Conference, Portland, Oregon.
- 10/03 “Issues in antibiotic selection” Sinusitis for Primary Care Conference., Portland, Oregon.
- 10/03 “Case Scenarios”. Sinusitis for Primary Care Conference., Portland, Oregon.
- 9/03 “Treatment Advances for Chronic Rhinosinusitis”, Portland, Oregon.
- 7/02 “Antibiotic Update and Antibiotic Resistance”. The Oregon Sinus Course, Portland, Oregon
- 7/02 “Disorders of Olfaction.” The Oregon Sinus Course, Portland, Oregon.
- 5/02 “Contemporary Management of Acute and Chronic Sinusitis.” Portland, Oregon
- 7/01 “Antibiotic Update and Antibiotic Resistance”. The Oregon Sinus Course, Portland, Oregon
- 7/01 “Disorders of Olfaction.” The Oregon Sinus Course, Portland, Oregon.
- 3/01 “Treatment of Acute Sinusitis: Antibiotic Update and Related Resistance Issues”. Salem, Oregon
- 8/00 “Antibiotic Update and Antibiotic Resistance”. The Oregon Sinus Course, Portland, Oregon
- 8/00 “Office Rhinology.” The Oregon Sinus Course, Portland, Oregon
- 8/00 “Disorders of Olfaction.” The Oregon Sinus Course, Portland, Oregon.
- 12/99 “Current concepts in the diagnosis and management of sinusitis”. Grand Rounds, St. John’s Medical Center. Longview, Washington.

- 11/99 “The role of steroids in olfactory disorders Oregon Academy of
Otolaryngology fall meeting, Portland, Oregon
- 1999-07 “Otolaryngology Quiz: Rhinology” Annual 4 week resident education
series on nasal and sinus disorders, OHSU.