

## CURRICULUM VITAE

**NAME:** Wayne Martin Koch, M.D.

**MAILING ADDRESS:** 7403 Swan Point Way (home)  
Columbia, MD 21045

Department of Otolaryngology- (work)  
Head and Neck Surgery  
The Johns Hopkins Medical Institutions  
JHOC 6221  
601 N. Caroline Street  
Baltimore, MD 21287-0910

**TELEPHONE:** (410) 955-4906  
**FACSIMILE:** (410) 955-0035  
**EMAIL:** wkoch@jhmi.edu

**DATE OF BIRTH:** May 9, 1956  
**PLACE OF BIRTH:** Pittsburgh, Pennsylvania  
**PERSONAL DATA:** Spouse: Deborah Georgian Koch  
Children: Rachel Abigail Koch  
Jonathan Georgian Koch  
Andrew Benjamin Koch

**SOCIAL SECURITY:** 167-48-7949

**CITIZENSHIP:** U.S.A.

**EDUCATION:** Doctor of Medicine  
University of Pittsburgh School of Medicine  
Pittsburgh, Pennsylvania  
1978-1982

Bachelor of Arts and Master of Science  
Department of Biochemistry and Molecular Biology  
Northwestern University  
Evanston, Illinois  
1974-1978

**POSTDOCTORAL TRAINING:** Fellowship: Head and Neck Surgical Oncology  
Department of Otolaryngology-Head and Neck Surgery  
Johns Hopkins University School of Medicine  
Baltimore, Maryland  
1987-1989

Residency: Otolaryngology - Head and Neck Surgery  
Tufts and Boston Universities  
Boston, Massachusetts  
1983-1987

Internship: Department of Surgery  
New England Medical Center  
Boston, Massachusetts  
1982-1983

**BOARD CERTIFICATION:** American Board of Otolaryngology  
1987

**LICENSURE:** Maryland number D35051 Expiration 09/30/2004

**ACADEMIC APPOINTMENTS:** Professor  
Department of Otolaryngology-Head and Neck Surgery  
Johns Hopkins University School of Medicine  
Baltimore, Maryland  
February 1, 2001 to present

Professor of Oncology  
Johns Hopkins University School of Medicine  
2002-

Associate Professor  
Department of Otolaryngology-Head and Neck Surgery  
Johns Hopkins University School of Medicine  
1994 - 2001

Associate Professor of Oncology  
Johns Hopkins University School of Medicine  
1994 - 2001

Assistant Professor  
Department of Otolaryngology-Head and Neck Surgery

Johns Hopkins University School of Medicine  
July 1, 1989 to April 30, 1994

Assistant Professor of Oncology  
Johns Hopkins University School of Medicine  
1993- April 30, 1994

Clinical Instructor  
Department of Otolaryngology-Head and Neck Surgery  
Johns Hopkins University School of Medicine  
July 1, 1987 to June 30, 1989

**HOSPITAL** The Johns Hopkins Hospital  
**APPOINTMENTS:** Baltimore, Maryland  
July 1, 1987 - present

**ADMINISTRATIVE** Residency Program Director  
**POSITIONS:** Department of Otolaryngology - Head and Neck Surgery  
Johns Hopkins Medical Institutions  
July 1, 1991 to April 1, 2002

Director, Head and Neck Division  
Department of Otolaryngology-Head and Neck Surgery  
April 15, 2001 to present

Director, Head and Neck Fellowship Training Program  
Department of Otolaryngology - Head and Neck Surgery  
Johns Hopkins Medical Institutions  
January 1, 1992 to present

Clinical Group Leader  
Provider Order Entry Steering Committee  
Johns Hopkins Medical Institutions  
March, 2001 to present

**HONORS:** Honor Award  
American Academy of Otolaryngology-Head and Neck Surgery  
1999

The George T. Nager Award for Best Full-time Teacher  
Department of Otolaryngology - Head and Neck Surgery  
Johns Hopkins University School of Medicine  
1991-92

Clinical Oncology Fellow,  
American Cancer Society  
1987-1989

Administrative Chief Resident  
Tufts and Boston University Otolaryngology Residency Program  
1986-1987

Davenport Hooker Scholarship  
Pittsburgh Academy of Medicine  
1978-1982

Phi Beta Kappa - Northwestern University  
1977

Gulf Oil Corporation Scholarship  
1974-1978

## **EXTRAMURAL SPONSORSHIP**

### Current

Genetic alterations as diagnostic and prognostic biomarkers for oral cancer.

NIH/NIDCR 1R01 DE13152-01  
09/01/1999 – 08/31/2004  
First year total cost: \$346,912  
Role: Principal Investigator, 25% effort

A molecular progression model for HNSCC.

NIH/NIDCR 1 R01 DE012588-01  
1998-2003 PI: David Sidransky, MD  
\$217,100 annual direct costs  
Role: Clinical Director 13% effort

HPV Etiology as a subset of Head and Neck Cancer

NIH/NIDCR 1 R01 DE13121-01  
4/01/00-03/31/05  
Annual direct costs: \$191,250  
Role: Co-PI 5% effort.

Previous

"Antibody-dependent cellular cytotoxicity against squamous cell carcinoma of the upper aerodigestive tract." Academy Research Training Award  
American Academy of Otolaryngology-Head and Neck Surgery.

1988-1989

\$30,000

Role: Principal Investigator

"Evaluation of Antibody-Dependent Cellular Cytotoxicity Activity in Serum and Immune cells from Patients with Head and Neck Carcinoma."

The Traylor Fund Johns Hopkins University School of Medicine

1989 -1990

\$20,000

Role: Principal Investigator

"Antibody-Dependent Cellular Cytotoxicity in Patients with Squamous Cell Carcinoma of the Upper Aerodigestive Tract."

American Cancer Society - Maryland Division, Inc.

1989-1991

\$24,000

Role: Principal Investigator

"Molecular analysis of surgical tumor margins."

OncorMed, Inc.

1996 - 1997

\$25,000

Role: Principal Investigator

As mentor

"Expression and function of the intercellular adhesion molecule (ICAM-1) on squamous cell carcinoma." Richard L. Scher, PI

Academy Research Training Award

American Academy of Otolaryngology-Head and Neck Surgery

1991 - 1992

\$30,000

"Detection of HNSCC in saliva using microsatellite analysis"

Earlene Elkins Award Michael Spafford, MD, PI

American Academy of Otolaryngology-Head and Neck Surgery

1998

\$15,000

**PUBLICATIONS**

Peer-Reviewed Scientific Articles

1. Koch WM, Hybels RL, Shapshay SM, "Carbon Dioxide Laser in Removal of Polytef Paste." Archives of Otolaryngology - Head and Neck Surgery. 113:661-664, 1987.
2. Koch WM, Dugan EM, Diaz LA, Richtsmeier WJ, "Induction of HLA-DR on human squamous carcinoma by recombinant interferon-gamma." Laryngoscope, 98:511-515, May, 1988.
3. Koch WM, Richtsmeier WJ, "Lysis of squamous cell carcinoma via antibody-dependent cellular cytotoxicity." Archives of Otolaryngology-Head and Neck Surgery, 115:669-676, 1989.
4. Koch WM, McDonald G, "Stevens-Johnson Syndrome with Supraglottic Laryngeal Obstruction." Archives of Otolaryngology-Head and Neck Surgery, 115:1381-1383, 1989. (selected for French language edition, volume 9:85-88, 1990.)
5. Koch WM, Friedman EM, McGill TJI, Healy GB, "Tympanoplasty in Children: the Boston Children's Hospital Experience." Archives of Otolaryngology-Head and Neck Surgery, 116:35-40, 1990. (selected for the Home Study Course of the American Academy of Otolaryngology-Head and Neck Surgery, Pediatric Diseases, 1992-93)

6. Richtsmeier WJ, Koch WM, McGuire WP, Poole ME, Chang EH, "A phase I-II study of advanced head and neck squamous carcinoma patients treated with rHuIFN-gamma: immunologic and histopathologic monitoring of patients." Archives Otolaryngology-Head and Neck Surgery, 116:1271-1277, 1990.
7. Eisele DW, Sherman M, Koch WM, Richtsmeier WJ, Wu AY, Erozan YS. "Utility of immediate on-site cytopathological procurement and evaluation in fine needle aspiration biopsy of head and neck masses." Laryngoscope, 102:1328-1330, 1992.
8. Richtsmeier WJ, Briggs RJS, Koch WM, Eisele DW, Loury MC, Price JC, Mattox DE, Carson BS. "Complications and early outcome of anterior cranial facial resection." Archives of Otolaryngology-Head and Neck Surgery 118:913-917, 1992.
9. Scher RL, Koch WM, Richtsmeier WJ. "Induction of the intercellular adhesion molecule (ICAM-1) on squamous cell carcinoma by interferon gamma." Archives of Otolaryngology-Head and Neck Surgery 119:432-438, 1993.
10. Sidransky D, Boyle J, Koch WM, van der Riet P. "Oncogene Mutations as Intermediate Markers." J Cell Biochem Supp. 17F:184-187, 1993.
11. Sidransky D, Boyle J, Koch WM. "Molecular Screening: Prospects for a New Approach." Archives of Otolaryngology-Head and Neck Surgery 119:1187-1190, 1993.
12. Boyle JO, Hakim J, Koch W, van der Riet P, Hruban RH, Roa RA, Corio R, Eby YJ, Ruppert JM, Sidransky D. "The incidence of p53 mutations increases with progression of head and neck cancer." Cancer Research, 53:4477-4480, 1993.
13. Zinreich SJ, Tebo SA, Long DM, Brem H, Mattox DE, Loury ME, Vander Kolk CA, Koch WM, Kennedy DW, Bryan RN. "Frameless stereotactic integration of CT imaging data: accuracy and initial applications." Radiology, 188:735-742, 1993.
14. van der Riet P, Nawroz M, Hruban RH, Corio R, Tokino K, Koch W, Sidransky D. "Frequent and early loss of chromosome 9p21-22 in head and neck cancer progression." Cancer Research, 54: 1156-1158, 1994.
15. Nawroz H, van der Riet P, Hruban R, Koch W, Sidransky D. "Allelotype of head and neck squamous cell carcinoma." Cancer Research, 54: 1152-1155, 1994.

16. Eisele DW, Richtsmeier WJ, Graybeal JC, Koch WM, Zinreich SJ. "Three-dimensional models for head and neck tumor treatment planning." Laryngoscope, 104: 433-439, 1994.
17. Koch WM, Yoo GH, Goodstein ML, Eisele DW, Richtsmeier WJ, Price JC. "The advantages of mandibular reconstruction with the titanium hollow-screw osteointegrating reconstructive plate (THORP)." Laryngoscope, 104: 545-552, 1994.
18. Yoo GH, Xu HJ, Brennan JA, Westra W, Hruban RH, Koch W, Benedict WF, Sidransky D. "Infrequent inactivation of the retinoblastoma gene despite frequent loss of chromosome 13q in head and neck squamous cell carcinoma." Cancer Research, 54:4603-4606, 1994.
19. Koch WM, Boyle JO, Mao L, Hakim J, Hruban RH, Sidransky D. "p53 gene mutations as markers of tumor spread in synchronous oral cancers." Archives of Otolaryngology-Head and Neck Surgery, 120:943-947, 1994. Abstracted in Year Book of Surgery, 1995.
20. Abidin MR, Arosarena O, Koch WM, Eisele DW. "Transdermal Fentanyl: a new adjunct to the management of chronic cancer pain." Otolaryngology-Head and Neck Surgery 111:680-683, 1994.
21. Boyle JO, Mao L, Brennan JA, Koch WM, Eisele DW, Saunders JR, Sidransky D. "Gene mutations in saliva as molecular markers for head and neck squamous cell carcinomas." Am J Surg, 168: 429-432, 1994.
22. Brennan JA, Mao L, Hruban RH, Boyle JO, Eby YO, Koch WM, Goodman SN, Sidransky D. "Molecular assessment of histopathologic staging in squamous-cell carcinoma of the head and neck."
23. Yueh B, Woods R, Koch WM. "A noncaseating granulomatous lesion of the tonsil presenting as a malignant neoplasm." Otolaryngol Head Neck Surg, 112: 461-464, 1995.
24. Koch WM, Patel H, Brennan JA, Boyle JO, Sidransky D. "Squamous cell carcinoma of the head and neck in the elderly." Archives Otolaryngol Head Neck Surg, 121: 262-265, 1995.
25. Brennan JA, Boyle JO, Koch WM, Goodman SN, Hruban RH, Eby Y, Couch M, Forastiere AA, Sidransky D. "Association between cigarette smoking and mutation of the p53 gene in squamous- cell carcinoma of the head and neck." The New England J Med, 332: 712-717, 1995.
26. Koch WM, Lee DJ, Eisele DW, Miller D, Poole M, Cummings CW, Forastier AA. "Chemoradiation for organ preservation in oral and pharyngeal carcinoma." Arch Otolaryngol Head Neck Surg, 121: 974-980, 1995.



27. Scher RL, Carras A, Schwab D, Richtsmeier WJ, Koch WM. "Interferon gamma enhances lymphokine-activated killer cell adhesion but not lysis of head and neck squamous cell carcinoma." Arch Otolaryngol Head Neck Surgery, 121: 1271-1278, 1995.
28. Cairns P, Polascik TJ, Eby Y, Tokino K, Califano J, Merlo A, Mao L, Herath J, Jenkins R, Westra W, Rutter JL, Buckler A, Gabrielson E, Tockman M, Cho KR, Hedrick L, Bova GS, Isaacs W, Koch W, Schwab D, Sidransky D. "Frequency of homozygous deletion at p16/CDKM2 in primary human tumours." Nature Genetics 11: 210-212, 1995.
29. Johns MM, Westra WH, Califano JA, Eisele D, Koch WM, Sidransky D. "Allelotype of salivary gland tumors." Cancer Res, 56: 1151-1154, 1996.
30. Califano J, van der Riet P, Clayman G, Westra W, Corio R, Koch W, Sidransky D. "A genetic progression model for head and neck cancer: implications for field cancerization." Cancer Research, Advances in Brief, 56: 2488-2492, 1996.
31. Bedi GC, Westra WH, Gabrielson E, Koch W, Sidransky D. "Multiple head and neck tumors: evidence for a common clonal origin." Cancer Research, Advances in Brief, 56: 2484-2487, March, 1996.
32. Reed AL, Califano J, Cairns P, Westra WH, Jones RM, Koch W, Ahrendt S, Eby Y, Sewell D, Nawroz H, Bartek J, Sidransky D. "High frequency of p16 (CDKN2/MTS-1/INK4A) inactivation in head and neck squamous cell carcinoma." Cancer Research, Advances in Brief, 56:3630-3633, 1996.
33. Nawroz H, Koch W, Anker P, Stroun M, Sidransky D. "Microsatellite alterations in plasma DNA of head and neck cancer patients." Nature Med 2:1035-1037, 1996.
34. Liggett WH, Sewell DA, Rocco J, Ahrendt SA, Koch W, Sidransky D. "p16 and p16 $\beta$  are potent growth suppressors of head and neck squamous carcinoma cells *in vitro*." Cancer Research, Advances in Brief, 56: 4119-4123, 1996.
35. Koch WM, Brennan JA, Zahurak M, Goodman SN, Westra WH, Schwab D, Yoo GH, Lee DJ, Forastiere AA, Sidransky D. "p53 mutation and locoregional treatment failure in head and neck squamous cell carcinoma." J Natl Cancer Inst, 88: 1580-1586, 1996.
36. Califano J, Ahrendt S, Meininger G, Koch W, Westra W, Sidransky D. "Telomerase activity in oral rinses from head and neck squamous cell cancer patients." Cancer Res, 56: 5720-5722, 1996.
37. Califano JA, Johns MM, Westra WH, Lango MN, Eisele D, Saji M, Zeiger MA, Udelsman R, Koch WM, Sidransky D. "An alleotype of papillary thyroid carcinoma." Int J Cancer, 69:442-444, 1996.

38. Lee DJ, Koch WM, Yoo G, Lango M, Reed A, Califano J, Brennan JA, Westra WH, Zahurak M, Sidransky D. "The impact of chromosome 14q loss of survival in primary head and neck squamous cell carcinoma." Clin Cancer Research, 3: 501-505, 1997.
39. Okami K, Wu L, Riggins G, Cairns P, Goggins M, Evron E, Halachmia N, Ahrendt SA, Reed AL, Hilgers W, Kern SE, Koch WM, Sidransky D, Jen J, "Analysis of PTEN/MMAC1 alterations in aerodigestive tract tumors." Cancer Res 58: 509-511, 1998.
40. Koch WM, Choti M, Civelek AC, Eisele DW, Saunders JR, "Gamma probe directed biopsy of sentinel node in oral squamous carcinoma." Arch Otolaryngol Head Neck Surg 124: 455-459, 1998.
41. Nawroz-Danish HM, Koch WM, Westra WH, Yoo G, Sidransky D, "Lack of *BRCA2* alterations in primary head and neck squamous cell carcinoma." Otolaryngology - Head & Neck Surg 119:21-25, 1998.
42. Leong P, Rezai B, Koch W, Reed A, Eisele D, Lee DJ, Sidransky D, Jen J, Westra WH, "Clonal relationship of synchronous and metachronous tumor of the head and neck and lung: a genetic approach for distinguishing independent primary tumors and distant metastases." J Natl Cancer Instit, 90: 972-977, 1998.
43. McQuone SJ, Eisele DW, Lee DJ, Westra WH, Koch WM. "Occult tonsillar carcinoma in the unknown primary." Laryngoscope 108: 1605-1610, 1998.
44. Koch WM. "Axillary node metastases in head and neck cancer." Head Neck, 21:269-272, 1999.
45. Califano J, Westra W, Koch W, Meininger G, Reed A, Yip L, Boyle JO, Lonardo F, Sidransky D. Accelerated discovery: "Unknown primary head and neck squamous cell carcinoma: molecular identification of site of origin." JNCI. 91:599-604, 1999.
46. Dardik A, Koch WM, Campbell KA. "Splenic rupture secondary to a laryngeal cancer metastasis: an unusual complication of unusual tumor behavior." Surgical Rounds 22: 167-176, 1999.
47. Califano J, Leong P, Koch W, Eisenberger C, Sidransky D, Westra WH, "Second esophageal tumors in patients with head and neck squamous cell carcinoma: an assessment of clonal relationships." Clinical Cancer Res 5: 1862-1867, 1999.

48. Okami K, Reed AL, Cairns P, Koch WM, Westra WH, Wehage S, Jen J, Sidransky D, Cyclin D1 amplification is independent of p16 inactivation in head and neck squamous cell carcinoma. Oncogene 18: 3541-3545, 1999.
49. Taylor D, Koch WM, Zahurak M, Shah K, Sidransky D, Westra WH, "Immunohistochemical detection of p53 protein accumulation in head and neck cancer: Correlation with p53 gene alterations." Human Pathology 30:1221-1225, 1999.
50. Koch WM, Longo M, Sewell D, Zahurak M, Sidransky D. "Head and neck cancer in nonsmokers: a distinct clinical and molecular entity." Laryngoscope 109: 1544-1551, 1999.
51. Califano J, Westra WH, Koch WM, Sidransky, "Molecular biology of Schneiderian inverted papilloma." Am J Path 156:333-337, 2000.
52. Gillison ML, Koch WM, Capone RB, Spafford M, Westra WH, Wu L, Zahurak ML, Daniel RW, Vigiolone M, Symer DE, Shah KV, Sidransky D. "Evidence for a causal association between human papillomavirus and a subset of head and neck cancers." J Natl Cancer Instit, 92: 709-720, 2000.
53. Yamaguchi K, Wu L, Caballero O, Hibi K, Trink B, Resto V, Cairns P, Okami K, Koch WM, Sidransky D, Jen J, "Frequent gain of the *p40/p51/p63* gene locus in primary head and neck squamous cell carcinoma." Int J Cancer, 86:684-689, 2000.
54. Califano J, Westra WH, Meininger G, Corio R, Koch W, Sidransky D. "Genetic progression and clonal relationship of recurrent premalignant head and neck lesions." Clin Cancer Research, 6: 347-352, 2000.
55. Sanchez-Cespedes M, Esteller M, Wu L, Nawroz-Danish H, Yoo GH, Koch WM, Jen J, Herman JG, Sidransky D, "Gene promoter hypermethylation in tumors and serum of head and neck cancer patients." Cancer Research, Advances in brief, 60: 892-895, 2000.
56. Shah SI, Yip L, Greenberg B, Califano J, Chow J, Eisenberger CF, Lee DJ, Sewell DA, Reed A, Lango M, Jen J, Koch W, Sidransky D. "Two distinct regions of loss on chromosomal arm 4q in primary head and neck squamous cell carcinoma." Arch Otolaryngol Head Neck Surg 126: 1073-1076, 2000.
57. Capone RB, Pai SI, Koch WM, Gillison ML, Nawroz-Danish H, Westra W, Daniel R, Shah KV, Sidransky D, "Detection and quantification of human papillomavirus (HPV) DNA in the sera of patients with HPV-associated head and neck squamous cell carcinoma." Clin Ca Res Advances in Brief, 6: 4171-4175, 2000.

58. Yamaguchi K, Patturajan M, Trink B, Usadel H, Koch W, Jen J, Sidransky D. "Circulating antibodies to p40<sup>AlS</sup> in the sera of respiratory tract cancer patients." Int J Cancer 89: 524-528, 2000.
59. Rosas SLB, Koch W, Carvalho M, Wu L, Califano J, Westra W, Jen J, Sidransky D, "Promoter hypermethylation patterns of the *p16*, *O<sup>6</sup>-Methylguanine-DNA-methyltransferase*, and *Death-associated Protein Kinase* in tumors and saliva of head and neck cancer patients." Cancer Res 61:939-942, 2001.
60. Spafford M, Koch WM, Reed AL, Xu L, Eisenberger CF, Yip L, Leong PL, Wu L, Liu SX, Geronimo C, Westra WH, Sidransky D, "Detection of head and neck squamous cell carcinoma in saliva by microsatellite analysis." Clin Cancer Res 7:607-612, 2001.
61. Koch WM, Bhatti N, Williams MF, Eisele DW, "Oncologic rationale for bilateral tonsillectomy for head and neck squamous cell carcinoma of an unknown primary source." Otolaryngol Head Neck Surg, 124:331-333, 2001.
62. Guo Z, Yamaguchi K, Sanchez-Cespedes M, Koch WM, Sidransky D. Allelic losses in Orascan directed biopsies of patients with prior upper aerodigestive tract malignancy. Clin Ca Res, 7:1963-1968, 2001.
63. Reid BC, Alberg AJ, Klassen AC, Koch WM, Samet JM. The American Society of Anesthesiologists' class as a comorbidity index in a cohort of head and neck cancer surgical patients. Head Neck 23: 985-994, 2001.
64. Koch, WM, "How I do it: a failsafe technique for endoscopic tracheoesophageal puncture." Laryngoscope, 111: 1663-1665, 2001.
65. Sanchez-Cespedes M, Parrella P, Nomoto S, Cohen D, Xiao Y, Esteller M, Jeronimo C, Jordan RCK, Nicol T, Koch WM, Schoenberg M, Mazzarelli P, Fazio VM, Sidransky D. "Identification of a mononucleotide repeat as a major target for mitochondrial DNA alterations in human tumors." Cancer Res Advances in Brief 61:7015-7019, 2001.
66. Koch WM, "The platysma myocutaneous flap: underutilized alternative for head and neck reconstruction." Accepted for Laryngoscope, March, 2002. MS# 2001770
67. Capone RB, Ha PK, Westra WH, Pilkington TM, Sciubba JJ, Koch WM, Cummings CW, "Oncocytic neoplasms of the parotid gland: a 16-year institutional review." OHNS 2002; 126:657-662.
68. Ferris RL, Koch WM, "Connective tissue disease coincident with nasopharyngeal carcinoma: west versus east." Accepted for Arch Otolaryngol Head Neck Surg August, 2002. #OOA20138

Invited Reviews and Editorials

1. Koch WM, "Summary of panel discussion on future research directions [for Speech Rehabilitation Following Laryngectomy Workshop]." Head and Neck Surgery Suppl. II, 10:S161, 1988
2. Koch WM, McQuone S, "Head and Neck squamous carcinoma in nonsmokers and nondrinkers." invited review article, Current Opinion in Oncology, 9:257-261, 1997.
3. Gillison ML, Koch WM, Shah KV. "HPV and HNSCC: are some head and neck cancers a sexually transmitted disease?" Current Opinion Oncology 11:191-199, 1999.
4. Koch WM, "Clinical implications of biological markers in head and neck cancer." Invited manuscript Current Oncology Reports 1: 129-137, 1999.
5. Koch WM, "Biomarker predictors of response to chemoradiation therapy for head and neck squamous cell carcinoma." American Society of Clinical Oncology 36<sup>th</sup> Annual Meeting Educational Book, Alexandria, VA, Spring, 2000, pp. 226-231.
6. Koch WM, "Head and Neck Surgery in the Era of Organ Preservation" Seminars in Oncology, vol 27, no.4, supplement 8: 5-12, 2000.
7. Forastiere A, Koch W, Trotti A, Sidransky D, "Head and Neck Cancer" invited review New Engl J Med 345: 1890-1900, 2001.

Book Chapters

1. Koch WM, Price JP, "Radical Maxillectomy," Paranasal Sinus chapter in Atlas of Head and Neck Surgery, ME Johns, JC Price and DE Mattox, eds., B.C. Decker, Inc., Philadelphia, PA, p.289, 1990.
2. Koch WM, Price JP, "Medial Maxillectomy with EnBloc Ethmoidectomy," Paranasal Sinus chapter in Atlas of Head and Neck Surgery, ME Johns, JC Price and DE Mattox, eds., B.C. Decker, Inc., Philadelphia, PA, p.276, 1990.
3. Koch WM, Price JP, "Lateral Rhinotomy Approach to the Sinuses," Paranasal Sinus chapter in Atlas of Head and Neck Surgery, ME Johns, JC Price and DE Mattox, eds., B.C. Decker, Inc., Philadelphia, PA, p.270, 1990.
4. Price JP, Koch WM, "Medial Maxillectomy," Paranasal Sinus chapter in Atlas of Head and Neck Surgery, ME Johns, JC Price and DE Mattox, eds., B.C. Decker, Inc., Philadelphia, PA, p.264, 1990.

5. Price JP, Koch WM, "Orbital Exenteration," Paranasal Sinus chapter in Atlas of Head and Neck Surgery, ME Johns, JC Price and DE Mattox, eds., B.C. Decker, Inc., Philadelphia, PA, p.292, 1990.
6. Johns ME, Koch WM, "Submandibular gland excision" Salivary Gland chapter in Atlas of Head and Neck Surgery, Johns, Price and Mattox, ed. B.C. Decker, Inc., Philadelphia, PA, p.324, 1990.
7. Koch WM, Price JP, "Midface degloving approach to tumors involving the skull base." in Neurosurgery: Update I, RH Wilkins, SS Rengachery, eds. McGraw-Hill, Inc. New York, NY, pp.302-305, 1990.
8. Koch WM, Price JP, "Midface degloving approach for sinus and clival tumors." in Surgery of Tumors of the Skull Base, J Hoff, DM Long, eds. Blackwell Scientific Publications, Inc. Boston, MA, p.174-181, 1992.
9. Price JP, Koch WM, "The midfacial degloving approach to the paranasal sinuses and skull base." in Surgery of the Paranasal Sinuses, 2nd edition, A Blitzer, W Lawson, WH Friedman, eds. W.B. Saunders, Inc., Philadelphia, PA., pp.309-315, 1991.
10. Koch WM, "Swallowing Disorders." Medical Clinics of North America, JJ Josephson and DE Mattox, eds. W.B. Saunders Co, Philadelphia, PA, 77:3; 571-582, May, 1993. Included in the Medical Knowledge Self-Assessment Program, Nelson Information Systems, Inc.
11. Koch WM, "Complications of surgery of the neck." in Complications in Head and Neck Surgery, 2nd edition, Eisele DW, ed. C.V. Mosby, St. Louis, MO, pp. 393-413, 1993.
12. "The Molecular Basis of Head and Neck Squamous Carcinoma." Koch WM. in Otolaryngology-Head and Neck Surgery, Update I, 2nd Ed., CW Cummings, JM Frederickson, LA Harker, et al, eds. Mosby Year Book Inc., St. Louis, MO., pp. 35-50, 1995.
13. Koch WM. "Clinical applications of genetic alterations as tumor markers for head and neck cancer." Head and Neck Cancer: Advances in Basic Research, Proceedings of the International Symposium on Advances in Head and Neck Cancer, Werner JA, et al., eds. Elsevier Science International Congress Series, Amsterdam, Netherlands, pp 569-580, 1996.
14. "Molecular Biology of Head and Neck Tumors." Koch WM. in Otolaryngology - Head and Neck Surgery, 3<sup>rd</sup> Ed. CW Cummings, JM Frederickson, LA Harker, et al. eds. Mosby, Inc., St. Louis, MO, pp. 343-359, 1998.

15. "Molecular assessment of surgical margins," Koch, WM *Head and Neck Cancers*, Ensley JF, Gutkind JS, Jacobs JR, Lippman SM, eds. Academic Press, San Diego, CA. in press.
16. "Molecular Screening for Head and Neck Cancer" Koch WM, Sidransky D in *Head and Neck Cancers*, Ensley JF, Gutkind JS, Jacobs JR, Lippman SM, eds. Academic Press, San Diego, CA. in press

Published Scientific Abstracts

1. Koch WM, Richtsmeier WJ, "Killing Squamous Cell Carcinoma in vitro via antibody-dependent cellular cytotoxicity using human cells and antibody." J. Cellular Biochemistry, Suppl. 12E: 138, 1988.
2. Brennan JA, Mao L, Boyle JO, Hruban RH, Koch WM, Sidransky D, "Reassessment of histopathology based on molecular analysis." Proc. Am. Assoc. Cancer Res., 35: 221, 1994.
3. van der Riet P, Nawroz H, Hruban R, Corio R, Koch W, Sidransky D, "A putative tumor suppressor gene on chromosome 9p in head and neck cancer." Proc. Am. Assoc. Cancer Res., 35: 582, 1994.
4. van der Riet P, Nawroz M, Hruban RH, Corio R, Koch W, Sidransky D, "Loss of heterozygosity of 9p21-22 and other autosomes in head and neck squamous cell carcinoma." Head and Neck, 16:477, 1994.
5. Forastiere AA, Koch W, Lee DJ, Eisele D, Cummings C, "Cisplatin and carboplatin combined with radiation to preserve organ function in patients with cancer of the oral cavity, oropharynx and hypopharynx." Head and Neck, 16:490, 1994.
6. Couch MJ, Koch WM, Brennan JA, Sidransky D, "The humoral response to oncoprotein p53 in head and neck patients." Head and Neck, 16:495, 1994.
7. Mao L, Brennan JA, Hruban RH, Boyle JO, Eby YJ, Koch WM, Sidransky D, "Molecular assessment of histopathologic staging." Head and Neck, 16:502, 1994.
8. Brennan JA, Boyle JO, Koch WM, Hruban RH, Couch MJ, Eby YJ, Forastiere A, Sidransky D, "Effect of p53 mutations on survival in head and neck squamous carcinoma." Head and Neck, 16:510, 1994.
9. Yoo GH, Hruban RH, Westra W, Koch W, Benedict WF, Sidransky D, "A tumor suppressor loci on chromosome 13q with a rare inactivation of the retinoblastoma gene in head and neck squamous cell carcinoma." Head and Neck, 16:515, 1994.

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11. Brennan JA, Koch WM, Boyle JO, Hruban RH, Couch MJ, Eby YJ, Goodman SN, Sidransky D, "Effect of p53 gene mutation on survival in head and neck squamous carcinoma." Proc Am Assn Cancer Res 36:546, 1995.
12. Koch WM, Greenberg B, Califano J, Sidransky D, "Prognostic implication of loss of heterozygosity of 4q in head and neck squamous cell carcinoma." Otolaryngol Head Neck Surg 115: P71, 1996.
13. Califano JA, Clayman G, Sidransky D, Koch W, Piantadosi S, van der Riet P, Nawroz H, Westra W, Corio R, "A genetic progression model for head and neck cancer: implications for field cancerization." Otolaryngol Head Neck Surg 115: P79, 1996.
14. Forastiere AA, Flood WA, Koch W, Eisele D, Lee DJ. Phase I study of paclitaxel administered over 96 hr and cisplatin in patients with locally advanced squamous cell cancer of the head and neck (Meeting abstract) Proc Annu Meet Am Soc Clin Oncol. 15:A884, 1996.
15. Danish HMN, Sidransky D, Koch WM, Westra WH, "Lack of BRCA2 alterations in primary head and neck squamous cell carcinoma." Otolaryngol Head Neck Surg 117:P127, 1997.
16. Sewell DA, McQuone S, Koch W, Sidransky D, "Loss of heterozygosity on 13q is associated with decreased survival rates in head and neck cancer patients." Otolaryngol Head Neck Surg 117: P128, 1997.
17. Lee DJ, McQuone S, Sewell D, Koch W, Sidransky D, Westra W, "Loss of chromosomes 3p, 4q, and 11q is associated with radiation resistance in patients with head and neck squamous cell carcinoma." Otolaryngol Head Neck Surg 117: P129, 1997.
18. Califano JA, Sidransky D, Meininger G, Westra WH, Koch W, "Identification of the site of origin of unknown primary squamous cell carcinoma of the head and neck using microsatellite analysis." Otolaryngol Head Neck Surg 117: P130, 1997.
19. Reed AL, Califano JA, Westra WH, Sidransky D, Koch W, "Temporal inactivation of p16 (CDKN2, INK4A, MST-1) tumor suppressor gene: is p16 the gatekeeper gene of head and neck squamous cell carcinoma? Otolaryngol Head Neck Surg 117: P78, 1997



20. Spafford MF, Reed AL, Xu L, Koch W, Westra WH, Califano JA, Sidransky D, "Detection of head and neck squamous cell carcinoma in saliva using microsatellite analysis." Proc Am Assoc Cancer Res 39: 100, 1998.
21. Leong P, Westra W, Jen J, Koch WM, Sidransky D, Rezai B, Lee DJ, "Clonal relationship of synchronous and metachronous tumors of the head and neck and lung: a genetic approach for distinguishing independent primary tumors and distant metastases." Otolaryngol Head Neck Surg 119: P79, 1998.
22. Spafford M, Koch WM, Sidransky D, Califano J, "Molecular detection of head and neck squamous cell carcinoma in saliva using microsatellite analysis." Otolaryngol Head Neck Surg 119: P92, 1998.
23. Califano J, Sidransky D, Westra W, Koch WM, "Genetic alterations and clonal relationship of inverted papilloma and associated squamous cell carcinoma." Otolaryngol Head Neck Surg 119: P94, 1998.
24. Koch WM, Lango M, Sewell D, Sidransky D, Genetic alterations in HNSCC from nonsmoker/ nondrinkers. Head Neck 20: 460, 1998.
25. Leong P, Rezai B, Reed A, Koch W, Lee DJ, Sidransky D, Jen J, Westra W. Clonal relationship of tumors of the head and neck and second tumors of the esophagus and lung: a genetic approach for distinguishing independent primary tumors and metastases. Head Neck 20: 462, 1998.
26. Spafford MF, Daniel RW, Koch WM, Shah K, Sidransky D. Correlation between sequenced p53 mutation and HPV DNA in head and neck squamous cell carcinoma: evidence for an independent HPV-mediated pathway of carcinogenesis. Head Neck 478, 1998.
27. Capone R, Gillison M, Nawroz H, Daniel R, Koch W, Shah K, Sidransky D. A serum assay for human papillomavirus DNA is negative in a group of HNSCC patients. Proc Am Assoc Cancer Res 40:41, 1999.
28. Spafford MF, Koch WM, Westra WH, Daniel RW, Zahurak ML, Liu SX, Hibi K, Okami K, Wu L, Shah KH, Sidransky D. The human papillomavirus in head and neck squamous cell carcinoma: a distinct molecular-pathologic entity. Proc Am Assoc Cancer Res 40:447, 1999.
29. Gillison ML, Capone RB, Koch WM, Daniel R, Sidransky D, Shah KV, "A subset of head and neck squamous cell carcinomas (HNSCC) is linked to Human Papillomavirus HPV) infection." Proc ASCO 18:389a, 1999.

30. Yamaguchi K, Patturajan M, Trink B, Koch W, Jen J, Sidransky D, "Circulating antibodies against p40 protein, a homolog of p53 in serum of upper respiratory tract cancer patients." Proc Am Assoc Cancer Res 41: 189, 2000.
31. Sanchez-Cespedes M, Esteller M, Wu L, Nawroz-Danish H, Yoo GH, Koch W, Jen J, Herman JG, Sidransky D, "Gene promoter hypermethylation in tumors and serum of head and neck cancer patients." Proc Am Assoc Cancer Res 41: 810, 2000
32. Rosas S, Carvalho MGC, Wu L, Koch W, Jen J, Sidransky D. "Promoter hypermethylation patterns of *p16*, *MGMT*, and *DAP-Kinase* in tumors and saliva of head and neck cancer patients." Proc Am Assoc Cancer Res 42: 753, 2001.
33. Ferris R, Koch WM, Siew L, Schneck JP. "Evolution of the cytolytic immune response to p53 in head and neck cancer." Otolaryngol Head Neck Surg 125: P94, 2001.
34. Capone RB, Westra W, Koch WM, Cummings CW. "Oncocytic parotid neoplasms: a 16 year institutional review." Otolaryngol Head Neck Surg 125: P210, 2001.

Submitted Manuscripts

1. Koch WM, "Total Laryngectomy with tracheoesophageal conduit." For *Otolaryngology Clinics of N Am* February, 2002.
2. Clinical Commentary: OCC 2005 Use of genetic markers in the clinical care of h&n cancer. For *Archives Otolaryngol Head Neck Cancer*
3. Expert Comment for H&N Controversies: Treatment of the Unknown Primary. For *Head and Neck*
4. Dong SM, Sun DI, Benoit NE, Lerman MI, Koch WM, Sidransky D. Epigenetic inactivation of *RASSF1A* in head and neck cancer. To

Manuscripts in Preparation

1. Nawroz-Danish H, Eisenberger CF, Yoo GH, Wu L, Koch W, Goodman S, Black C, Ensley JF, Wei W-Z, Sidransky D, "Microsatellite analysis of serum DNA in patients with head and neck cancer."

2. Tong BC, Dhir K, Ha PK, Westra WH, Alter B, Sidransky D, Koch WM, Califano JA, "Use of single nucleotide polymorphism arrays to identify a novel region of loss on chromosome 6q in squamous cell carcinoma of the oral cavity."
3. Ho T, Koch WM. "Interval between first office visit and diagnosis of oropharyngeal cancer."

## **SCIENTIFIC PRESENTATIONS**

### Proffered Oral Presentations at Scientific Meetings

1. "Sleep apnea in Shy-Drager Syndrome." New England Otolaryngology Society Meeting, Boston, MA, April, 1985.
2. "Nasal dermoid sinus and cyst with intercranial extension." New England Otolaryngology Society Meeting, Boston, MA, April, 1986.
3. "Carbon dioxide laser in removal of polytef paste." Presented to the American Society for Laser in Medicine and Surgery, Sixth Annual Meeting, Boston, MA, May, 1986.
4. "Research applications for monoclonal antibodies in carcinoma of the head and neck." Tufts and Boston University Departments of Otolaryngology Alumni Day, Boston, MA, May, 1987.
5. "Squamous cell differentiation and keratin staining." 2nd Broyles Symposium. Johns Hopkins Medical Institutions, Department of Otolaryngology-Head and Neck Surgery. Baltimore, MD, June 3, 1988.
6. "Lysis of squamous cell carcinoma in vitro via antibody-dependent cellular cytotoxicity using human cells and serum." 2nd International Conference on Head and Neck Cancer. Boston, MA, August 3, 1988.
7. "Expression and induction of class II major histocompatibility antigens in squamous carcinoma of the head and neck." 2nd International Conference on Head and Neck Surgery. Boston, MA, August 2, 1988.
8. "Tympanoplasty in Children: the Boston Children's Hospital experience." American Society of Pediatric Otolaryngology. San Diego, CA, May 20, 1989.

9. "Lysis of squamous cell carcinoma via antibody-dependent cellular cytotoxicity mediated by peripheral blood lymphocytes and serum antibodies from head and neck cancer patients." American Academy of Otolaryngology-Head and Neck Surgery, Academy Research Forum, New Orleans, LA, September 26, 1989.
10. "Carcinoma of the floor of mouth and mandible: Reconstruction using THORP system." Oncology Service Grand Rounds, Johns Hopkins University School of Medicine, May 19, 1990.
11. "Gamma interferon for the treatment of squamous carcinoma of the head and neck: a phase I prospective trial." BU-Tufts Otolaryngology Program Alumni Day, Boston, MA. June 16, 1990.
12. "THORP: Titanium hollow-screw osteointegrating reconstruction plate for mandibular reconstruction in carcinoma of the oral cavity and oropharynx." Surgical Grand Rounds, Johns Hopkins University School of Medicine, Baltimore, MD, October 6, 1990.
13. "Adhesion Molecules on Squamous Cell Carcinoma of the Head and Neck." Otolaryngology Grand Rounds, Johns Hopkins School of Medicine, September 30, 1991.
14. "Detection of viable cancer cells after non-surgical treatment of head and neck malignancy using a-PCNA." Koch WM, Scher RL, Richtsmeier WJ. Presented, Third International Conference on Head and Neck Cancer, San Francisco, CA, July 26, 1992.
15. "Cytokine induction of immunoregulatory molecules on squamous cell carcinoma: kinetic and functional considerations." Koch WM, Scher RL, Richtsmeier WJ. Presented at the Annual meeting of the American Academy of Otolaryngology-Head and Neck Surgery, Washington D.C., September 14, 1992.
16. Koch WM, Yoo GH, Goodstein M, Price JC. "Advantages of Primary Reconstruction with the Titanium Hollow-Screw Osteointegrating Reconstruction Plate (THORP)." Southern Sectional Meeting of the Triological Society, Boca Raton, FL, January 16, 1993.
17. "p53 Gene Mutation as a Marker for Detection and Prognostication in Squamous Cell Carcinoma of the Head and Neck." at the Fall Meeting of the Eastern Cooperative Oncology Group, Head and Neck Committee, Bal Harbour, FL, October 22, 1993.
18. "Primary chemoradiation for organ preservation in advanced squamous carcinoma of the oral cavity and pharynx." at the annual meeting of the American Society for Head and Neck Surgery, Palm Beach, FL, May 10, 1994.

19. "Loss of heterozygosity of 9p21-22 and other autosomes in head and neck squamous cell carcinoma." at the Fourth Research Workshop on the Biology, Prevention and Treatment of Head and Neck Cancer, Arlington, VA, September 9, 1994.
20. "Clinical applications of molecular genetic analysis in head and neck cancer." at Surgical Grand Rounds, Johns Hopkins University, Baltimore MD, February 25, 1995.
21. "Molecular biology of salivary gland neoplasms." Wayne M. Koch Michael M. Johns, at Comprehensive Management of Salivary Gland Neoplasms, Baltimore, MD, October 27, 1995.
22. "Clinical implications of p53 mutation in head and neck squamous carcinoma." at Otolaryngology-Head and Neck Surgery grand rounds, Johns Hopkins University, February 5, 1996, and Radiation Therapy Oncology Group, H&N Surgical subcommittee meeting, New Orleans, LA, February 10, 1996.
23. "p53 mutation is associated with locoregional disease control after radiation in head and neck carcinoma." at the 4th International Conference on Head and Neck Cancer, Toronto, Canada, July 31, 1996.
24. "Prognostic implication of loss of heterozygosity of 4q in head and neck squamous cell carcinoma." at the Research Forum of the Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, Washington, DC, September 30, 1996.
25. "Intraoperative identification of malignant melanoma and oral squamous cell carcinoma metastases using gamma probe monitoring." at the 39<sup>th</sup> Annual Meeting of the American Society for Head and Neck Surgery, Phoenix, AZ, May 13, 1997.
26. "Saliva screening test for head and neck cancer." at 1998 Cancer Center Retreat, Baltimore, MD, June 19, 1998.
27. "The molecular analysis of squamous cell cancer in the non-smoking population." at Department of Otolaryngology Head and Neck Surgery Research Presentations, Baltimore, MD, June 20, 1998. Also at Department of Surgery Grand Rounds, Johns Hopkins Medical Institutions, February 20, 1999.
28. "Head and neck cancer in nonsmokers: alternative molecular pathways of tumor progression." At the Annual Meeting of the American Laryngological, Rhinological and Otological Society, Palm Desert, CA, April 28, 1999.
29. "Molecular margins: preliminary results, emerging insights." At the Department of Otolaryngology-Head and Neck Surgery Research Presentations, June 1, 2002.

Poster Presentations

1. Koch WM, Richtsmeier WJ. "Killing squamous cell carcinoma in vitro via antibody-dependent cellular cytotoxicity using human cells and antibody." poster, UCLA Symposium on Molecular and Cellular Biology: Human Tumor Antigens and Specific Tumor Therapy, Keystone, CO, April 26, 1988.
2. Koch WM, Richtsmeier WJ. "Regulation of HLA-DR expression on squamous cell carcinoma by the lymphokines Transforming Growth Factor-beta, Tumor Necrosis Factor-alpha and Interferon-gamma." American Academy of Otolaryngology-Head and Neck Surgery, Academy Research Forum, New Orleans, LA, September 25, 1989.
3. Richtsmeier WJ, Menezes CA, Ravenhill G, Koch WM. "The mechanism of Interferon gamma induced cytolysis in squamous carcinoma cultures." American Academy of Otolaryngology-Head and Neck Surgery, Academy Research Forum, New Orleans, LA, September 25, 1989.
4. Scher RL, Koch WM, Richtsmeier WJ. "Induction of the intracellular adhesion molecule (ICAM-1) on squamous cell carcinoma by interferon gamma." Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, Research Forum, Kansas City, MO, September 23, 1991.
5. Scher RL, Koch WM, Richtsmeier WJ. "Expression of the intercellular adhesion molecule (ICAM-1) on squamous cell carcinoma." Third International Conference on Head and Neck Cancer, San Francisco, CA, July 26-30, 1992.
6. Koch WM, Scher RL, Richtmeier WJ. "Cytokine modulation of HLA-DR expression of squamous cell carcinoma." Third International Conference on Head and Neck Cancer, San Francisco, CA, July 26-30, 1992.
7. Boyle JO, Hruban R, Koch W, Sidransky D. "The incidence of p53 mutations increases with progression of head and neck cancer." Research Forum at the Annual Meeting of the Academy of Otolaryngology - Head And Neck Surgery, Minneapolis, MN, October 4, 1993.
8. van der Riet P, Nawroz H, Hruban R, Corio R, Koch W, Sidransky D. "A putative tumor suppressor gene on chromosome 9p in head and neck cancer." at the 85th Annual Meeting of the American Association for Cancer Research, San Francisco, CA, April 10-13, 1994
9. Danish HMN, Sidransky D, Koch WM, Westra WH, "Lack of BRCA2 alterations in primary head and neck squamous cell carcinoma." at the Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, September 7-10, 1997.

10. Sewell DA, McQuone S, Koch W, Sidransky D, "Loss of heterozygosity on 13q is associated with decreased survival rates in head and neck cancer patients." at the Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, September 7-10, 1997.
11. Lee DJ, McQuone S, Sewell D, Koch W, Sidransky D, Westra W, "Loss of chromosomes 3p, 4q, and 11q is associated with radiation resistance in patients with head and neck squamous cell carcinoma." at the Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, September 7-10, 1997.
12. Califano JA, Sidransky D, Meininger G, Westra WH, Koch W, "Identification of the site of origin of unknown primary squamous cell carcinoma of the head and neck using microsatellite analysis." at the Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, September 7-10, 1997.
13. Capone RB, Gillison ML, Koch WM, Daniel R, Wu L, Sidransky D, Shah KV, "The human papillomavirus is an etiologic agent of a subset of head and neck cancer." at the Annual Meeting of the American Head and Neck Society, Palm Desert, CA, April 24-27, 1999.
14. Koch WM, "The platysma myocutaneous flap: 2<sup>nd</sup> choice for head and neck reconstruction." At the Southern Section Meeting of the Triological Society, Captiva Island, FL, January 10-12, 2002.
15. Koch WM, Ferris RL, "Nasopharyngeal carcinoma associated with connective tissue disease." At the Annual meeting of the American Head and Neck Society, Boca Raton, FL, May 11, 2002.

## TEACHING

### Classroom Instruction

1. "Diagnosis and Management of Head and Neck Cancer," Basic Surgical Clerkship Lecture Series, Johns Hopkins University School of Medicine, presented bimonthly 1988-2002.
2. "Diagnosis and staging of head and neck cancer," Otolaryngology Basic Science and Clinical Orientation Course, Johns Hopkins University School of Medicine, July 16, 1990.
3. "Pre and Postoperative care of the head and neck cancer patient," Otolaryngology Basic Science and Clinical Orientation Course, Johns Hopkins University School of Medicine, July 9, 1990, July 17, 1991, August 15, 1994, September 4, 1996, August 12, 1998, July 31, 2002

4. "Cell physiology and biology of cancer," Otolaryngology Basic Science and Clinical Orientation Course, Johns Hopkins University School of Medicine, August 30, 1989 and August 1, 1990.
5. "Head and neck embryology: cysts and fistulas," Otolaryngology Basic Science and Clinical Orientation Course, Johns Hopkins University School of Medicine, August 2, 1990.
6. "Miniplate Fixation of Midfacial Fractures," Anatomy-Dissection course for JHU Otolaryngology residents, December 1, 1990.
7. "Neck Dissection," Resident Anatomy/Dissection Series, Johns Hopkins University Department of Otolaryngology, 1991-1998.
8. "Grafts and flaps," presented to Nursing Staff, Meyer 9, Johns Hopkins Hospital, March 18, 1994.
9. "How we hear." Calvert School Class 6-1. Baltimore, MD January 22, 1998. Also Calvert School, class 10-1, Baltimore, MD, February 25, 1999.
10. "Molecular biology of head and neck cancer; an update." Otolaryngology Grand Rounds, Johns Hopkins Medical Institutions, April 20, 1998.
11. Epidemiology and diagnosis of Head and Neck Cancer. Otolaryngology Grand Rounds, Johns Hopkins University, October 4, 1999.
12. Snoring and sleep apnea. Seminar for the public at the Greenspring Station, Johns Hopkins Medical Institutions, December 14, 1999.
13. Squamous cell carcinoma of the oral cavity. Otolaryngology Grand Rounds, Johns Hopkins University School of Medicine. February 7, 2000.
14. Human anatomy discussion groups IV: Head and Neck, Johns Hopkins University School of Medicine, December 13, 2000.
15. Head and neck cancer – Loyola Graduate School – Speech and Language Pathology, January 22, 2002.
16. The physical examination of the head and neck - for residents in training, department of Otolaryngology-Head and Neck Surgery 2000,2001, July 14, 2002



Clinical Instruction

Head and Neck Oncology Service, Department of Otolaryngology-Head and Neck Surgery 1989-  
Role: Full time Faculty

CME Instruction: Proffered and Invited Presentations

1. "Common otolaryngologic problems for the primary physician." Johns Hopkins Health Plan, Baltimore, MD, May 10, 1988.
2. "Lymphokines and Cytokines of Therapeutic Interest." Koch WM and Richtsmeier WJ, presented as an instructional course at the Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, San Diego, CA., September 12, 1990.
3. "Principals of tumor management: treatment of stage IV disease." AO/ASIF Mandibular Reconstruction Course, Baltimore, MD. November 10, 1990.
4. "Influence of radiation on internal fixation in the cancer patient." AO/ASIF Mandibular Reconstruction Course, Baltimore, MD. November 10, 1990.
5. "Otolaryngologic basics of dysphagia." Dysphagia: Basic Concepts and Practical Approaches, The Johns Hopkins Swallowing Center Symposium, Baltimore, MD. May 2, 1991.
6. "Head and Neck Surgery Problems." Workshop III, Dysphagia: Basic Concepts and Practical Approaches, The Johns Hopkins Swallowing Center Symposium, Baltimore, MD. (with Deborah Koch, M.A., C.C.C) May 3, 1991.
7. "Organ preservation: concept, VA laryngeal study and new Hopkins protocol." at Washington Metropolitan ENT Society Meeting, November 21, 1991.
8. "Cell-mediated immunity," at the 30th Annual Basic Science Course in Otolaryngology-Head and Neck Surgery, Armed Forces Institute of Pathology, Washington, D.C., May 4, 1992.
9. "Primary tracheo-esophageal puncture: contraindications and outcome." Colloquia and Workshops on Laryngeal Disorders, Baltimore, MD, September 12, 1992.
10. "Adhesion molecules in cancer biology." as part of panel "Tumor biology concepts used in treatment of head and neck cancer - an update." at the 1992 Clinical Congress of the American College of Surgeons, New Orleans, LA., October 13, 1992.

11. "Head and Neck Tumor Biology: Immunology and Molecular Biology" at the 31st Annual Basic Science Course in Otolaryngology-Head and Neck Surgery, Armed Forces Institute of Pathology, Washington, D.C., May 10, 1993.
12. "Molecular Biology of Head and Neck Cancer." at Eli Lilly Residents Symposium in Otolaryngology-Head and Neck Surgery, Minneapolis, MN, October 1, 1993. Repeated and updated at Eli Lilly Resident Symposium, New Orleans, LA. September 15, 1995.
13. "Neck masses" at Primary Otolaryngology for the Primary Care Provider, Baltimore, MD, October 16, 1993.
14. "Tracheoesophageal puncture" at Otolaryngology-Head and Neck Surgery Grand Rounds, Johns Hopkins School of Medicine, March 7, 1994
15. "Cell-mediated immune response to head and neck cancer," and "Molecular biology of head and neck squamous carcinoma," at the 32nd Annual Basic Science Course in Otolaryngology-Head and Neck Surgery, Armed Forces Institute of Pathology, Washington, D.C., March 13, 1994.
16. "Genetic factors in laryngeal cancer." at the Colloquia and Workshops on Laryngeal Disorders, Baltimore, MD, October 26, 1994.
17. "Clinical applications of molecular genetic analysis in head and neck cancer." at the New England Otolaryngology Society, Boston, MA, April 7, 1995.
18. "Surgery for oral cavity/ base of tongue tumors." at Radiation Oncology Update, Georgetown University, Washington, D.C., March 28, 1995 and at Otolaryngology Grand Rounds, Johns Hopkins University, April 17, 1995.
19. "Future clinical applications of molecular genetic markers in ECOG trials." at the Semi annual meeting of the Eastern Cooperative Oncology Group, St. Louis, MO, October 13, 1995.
20. "Clinical applications of molecular genetic alterations as tumor markers for head and neck cancer." at the International Symposium on Advances in Head and Neck Cancer, Kiel, Germany, January 19, 1996.
21. "Molecular biology of head and neck cancer." at Diagnosis and Treatment of Neoplastic Disorders, Johns Hopkins University Oncology Center, Baltimore, MD, March 28, 1996.

22. "p53 mutation status predicts radiation response in head and neck squamous cell carcinoma." invited speaker in the Translational Research Forum, Radiation Therapy Oncology Group semiannual meeting, Philadelphia, PA, July 20, 1996.
23. "Genetic alterations associated with head and neck carcinogenesis." in panel entitled Premalignancy and Chemoprevention at the 4th International Conference on Head and Neck Cancer, Toronto, Canada, July 30, 1996.
24. "Clinical applications of molecular biology for assessment of surgical margins and prognosis in head and neck cancer." in Beyond basic histology: advances in diagnostic head and neck pathology Minisymposium of the Committee on Otolaryngologic Pathology at the Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, Washington, DC, October 1, 1996
25. "Clinical applications of molecular biologic techniques to the study of head and neck cancer." invited speaker at symposium Basic Sciences of Head and Neck Cancer, Harvard Collaborative Oncology Group at Dana Farber Cancer Center, Boston, MA, December 13, 1996.
26. "Molecular genetic alterations as prognostic indicators in head and neck squamous cell carcinoma." Surgical Grand Rounds, Johns Hopkins University, March 1, 1997.
27. "Molecular prognostic factors of head and neck carcinoma" at Basic and Clinical Research in Head and Neck Cancer, sponsored by the Foundation for Promotion of Cancer Research. Tokyo, Japan, April 22, 1997.
28. "Molecular prognostic factors of head and neck carcinoma," at the Third European Workshop on Basic Biology of Head and Neck Cancer. Oslo, Norway, August 29, 1997.
29. "Microsatellite markers of prognostic significance in head and neck cancer." At the Head and Neck Strategy Meeting, Clinical Investigations Branch, CTEP, NCI, Rockville, MD, December 5, 1997.
30. "Molecular biology of head and neck cancer," Keynote address at the Asia-Pacific Head and Neck Cancer Congress, Mumbai, India, December 13, 1997.
31. "Clinical applications of molecular biology in head and neck cancer." St. Stephen's Hospital, Delhi, India. December 15, 1997.
32. "Molecular markers for diagnosis and prognosis of head and neck cancer." Neoadjuvant Therapy for Head and Neck Cancer- a New Paradigm. The Brown University Oncology Group, Providence, RI. December 3, 1998.

33. "Laser Physics", Lasers in Otolaryngology, Greater Baltimore Medical Center, Johns Hopkins Medical Institutions, May 15, 1999.
34. Invited Discussant: Head and Neck Cancer Oral Session, American Society for Clinical Oncology, Annual Meeting, Atlanta, GA, May 16, 1999.
35. Molecular Biology of Head and Neck Tumors and Molecular Epidemiology of HNSCC. New York University Department of Otolaryngology-Head and Neck Surgery Grand Rounds, August 5, 1999.
36. Immune-Directed Gene Therapy. Invited Speaker as part of Minisymposium "Oncology – Immunology" at Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum annual meeting, Lyon, France, August 23, 1999.
36. Detection of minimal residual disease by DNA markers, technical and clinical aspects. Invited speaker at "Detection, treatment and biology of minimal residual disease in human solid tumors." Graduate School of Oncology Amsterdam, Amsterdam, The Netherlands, October 14, 1999.
37. Molecular diagnosis: unknown primaries and second primaries. Invited speaker at "Detection, treatment and biology of minimal residual disease in human solid tumors." Graduate School of Oncology Amsterdam, Amsterdam, The Netherlands, October 14, 1999.
38. Tonsillectomy in the assessment of patients with unknown primary. Guest speaker at NKI/AvL Symposium: Neck Node Metastasis of an Unknown Primary, The Netherlands Cancer Institute, Antoni van Leeuwenhoek Hospital, Amsterdam, The Netherlands, October 15, 1999.
39. Is molecular biological analysis helpful in detection of primary carcinoma? Guest speaker at NKI/AvL Symposium: Neck Node Metastasis of an Unknown Primary, The Netherlands Cancer Institute, Antoni van Leeuwenhoek Hospital, Amsterdam, The Netherlands, October 15, 1999.
40. Head and Neck Surgery in the Era of Organ Preservation. Invited speaker at the Clinical Investigators Meeting on Head and Neck Cancer: Recent Developments and Future Directions, Brussels, Belgium, December 2, 1999.
41. Molecular markers to predict local regional failure of head and neck malignancies. Panelist in "Innovative approaches in the management of head and neck tumors." The Society of Surgical Oncology, Cancer Symposium, March 16, 2000, New Orleans, LA.
42. Predictive factors for chemoradiation response in HNSCC. American Society of Clinical Oncology, New Orleans, LA, May 20,21, 2000.

43. Platysma flap reconstruction of the head and neck. The Johns Hopkins University Department of Otolaryngology-Head and Neck Surgery, Annual Commencement Day Research Presentations, Baltimore, MD, June 24, 2000.
44. Is this cancer curable? Unraveling the biologic basis for tumor behavior. Panel Discussion, Panel #3, 5<sup>th</sup> International Conference on Head and Neck Cancer, San Francisco, CA, July 30, 2000.
45. Molecular clues and tools for early detection and prevention of HNSCC. AHNS Prevention Committee: Introducing Prevention and Early Detection Activities in Your Head and Neck Oncology Practice. Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, Washington, DC, September 25, 2000.
46. Molecular basis of head and neck cancer. Grand Rounds, Division of Otolaryngology, University of Maryland, October 10, 2000.
47. Molecular Biology of Head and Neck Cancer: Prognostic Markers. Deutsch-Osterreichisch-Schweizerischer Arbeitskreisfur Tumoren im Kiefer- und Gesichtsbereich (DOSAK), 31<sup>st</sup> Annual Meeting, Giessen, Germany, November 20, 2000.
48. Clinical applications of molecular markers in HNSCC. Visiting Professor, University of Pittsburgh Department of Otolaryngology-Head and Neck Surgery, December, 5, 2000.
49. Head and Neck Cancer in the Nonsmoker/Nondrinker. Head and Neck Cancer 2001. Johns Hopkins University, Baltimore, MD. March 9, 2001.
50. "Clinical Trials: What's in it for the Head and Neck Surgeon? Panel at the Annual Meeting of the American Head and Neck Society, Palm Desert, CA, May 15, 2001.
51. "Oral cancer" on Newsnight Maryland, Maryland Public Television, June 5, 2001.
52. "Tonsils, virus, sex and the unknown," visiting professor lecture for Department of Otolaryngology-Head and Neck Surgery, University of Miami, February 21, 2002.
53. "Molecular detection of head and neck cancer in the 21<sup>st</sup> century." Visiting Professor lecture for the University of Miami Sylvester Comprehensive Cancer Center, February 22, 2002.

#### CME Course Organization

"Residents Symposium in Otolaryngology-Head and Neck Surgery" sponsored by Johns Hopkins University Department of Otolaryngology - Head and Neck Surgery and supported by Eli Lilly and Company, Minneapolis Minnesota, September 30 - October 1, 1993

Introductory Course for Otolaryngology Residency Training, The Johns Hopkins Medical Institutions, Department of Otolaryngology-Head and Neck Surgery. July-September 1995-1999.

Lasers in Otolaryngology, The Johns Hopkins Medical Institutions, May 15, 1999.

Conference Session Chair

Fourth Research Workshop on the Biology, Prevention, and Treatment of Head and Neck Cancer  
Scientific Session #12: Immunology II: Immune Responses, Lymphokines and Cytokines"  
September 10, 1994

Session Chair

4th International Conference on Head and Neck Cancer Proffered Papers #41: Gene Expression –  
Predictors of Survival July 31, 1996

Session Chair

1998 Combined Meeting of American Society for Head and Neck Surgery and Society of Head and Neck Surgeons Scientific Session 5 May 15, 1998

Session Chair

Annual Meeting of American Society of Clinical Oncology  
Head and Neck Cancer Oral Presentation Session  
May 16, 1999  
Session Chair

Annual Meeting of American Society of Clinical Oncology  
New Orleans, LA

Head and Neck Cancer I Oral Presentations  
May 20, 2000

Session Chair

Head and Neck Cancer Poster Discussion Session  
May 22, 2000

Head and Neck Cancer 2001  
Baltimore, MD

Oral Cavity Carcinoma – Panel Moderator  
March 9, 2001

Discussant

5<sup>th</sup> International Conference on Head and Neck Cancer

San Francisco, CA

Proffered Papers #22 Risk Factors – Larynx, Tonsil, Oral Cancer

Moderator

July 31, 2000

Panel #3 Tumor Biology

Panel Chair

July 30, 2000

## **MENTORING**

### Advisees

1. Richard L. Scher, MD 1990-1992 Head and Neck Fellow, Current position: Associate Professor, Otolaryngology-Head and Neck Surgery, Duke University School of Medicine. Academy Research Training Award received 1991.
2. Joseph Brennan, MD 1992-1994 Head and Neck Fellow, Current position: Assistant Clinical Professor, Uniformed Services University of Health Sciences, Davis, CA.
3. Shelly McQuone, MD 1996-1998 Head and Neck Fellow, Current position: Assistant Professor, University of Pennsylvania.
4. Michael Spafford, MD 1997-1999 – Head and Neck Fellow, Earline Elkins Research Award (American Academy of Otolaryngology-Head and Neck Surgery) received 1998.
5. Jay Boyle, MD 1993-1997 Otolaryngology Resident, Current position: Head and Neck Fellow, Memorial Sloan Kettering. Resident Research Award, Society of Head and Neck Surgery, 1995 for “Detection of squamous cell carcinoma in saliva using p53 mutation oligomer probes.”
6. George Yoo, MD 1991-1996 Otolaryngology Resident, Current position: Assistant Professor, Wayne State University.
7. Myra Nawroz-Danish, MD 1994 Medical Student, Current position: Otolaryngology Resident, Wayne State University. Received 2<sup>nd</sup> Place Resident Basic Science Award, American Academy of Otolaryngology-Head and Neck Surgery, 1997 for “Lack of BRCA2 alterations in primary head and neck squamous cell carcinoma.”
8. Joseph Califano, MD 1993-1999 Otolaryngology Resident, Received 1<sup>st</sup> place Resident Basic Science Award, American Academy of Otolaryngology-Head and Neck Surgery, 1996 for “Genetic progression model and field cancerization of head and neck cancer.”
9. Peter van der Riet, MD 1993-94 Medical Student, Current position: Otolaryngology Resident, Duke University.

10. Duane Sewell, MD 1995-2000 Otolaryngology Resident
11. Andre Reed, MD 1995-2001 Otolaryngology Resident, Received Resident Research Award, Society of Head and Neck Surgeons, 1997, "Temporal inactivation of p16 tumor suppressor gene in head and neck squamous cell carcinoma."
12. Daniel J. Lee, MD 1994-2000 Medical Student and Otolaryngology Resident
13. Randall Capone, MD 1998-2002 Otolaryngology Resident
14. Mora Gillison, MD 1998-2002 Oncology postdoctoral/Ph D candidate. (I serve as a member of Dr. Gillison's thesis committee)
15. David Huchton, MD 1998-2000 Head and Neck Oncology Fellow – working on photodynamic therapy trial for superficial HNSCC.
16. Joshua Schindler, MD 1999-2000 Development of anti-HPV vaccine for head and neck cancer.
17. Robert Ferris, MD, PhD 2000-2001 HLA-mediated targeting of CTL to p53 epitopes
18. David Goldenberg, MD 2002-2004 Molecular assessment of surgical margins
19. John Brockenbrough, MD 2002-2003 Head and Neck clinical fellowship

#### Training Grant Participation

Residency Training in Otolaryngology NIH T32 DC00027-10 1989-1999 (Renewal submitted, September, 1998) Role: Faculty supervisor.

#### **CURRENT RESEARCH ACTIVITIES**

Development of molecular screening strategies for head and neck cancer (RPN 96-07-25-01).

Prognostic significance of mutation of the p53 gene and other genetic alterations in squamous cell carcinoma of the upper aerodigestive tract.



Use of p53 mutation as a marker for squamous cell carcinoma of the upper aerodigestive tract in tumor resection margins (Principal Investigator: Wayne M. Koch "Clinical Efficacy of Molecular Analysis of Surgical Margins and Regional Lymph Nodes in Management of Head and Neck Squamous Cell Carcinoma" Eastern Cooperative Oncology Group protocol E4393, activated 1/17/96. NCI investigator #24322) (RPN 96-02-29-01)

Evaluation of the clinical utility of detection of tumor-specific microsatellite alterations in DNA from plasma of H&N SCC patients

Identification of target suppressor genes in head and neck cancer. (RPN 92-07-21-01)

Investigation of the etiologic role of human papillomavirus in HNSCC, clinicopathologic correlates and treatment strategies. (RPN 98-12-10-01)

## **ORGANIZATION ACTIVITIES**

### Professional Society Membership

American Academy of Otolaryngology - Head and Neck Surgery

American College of Surgeons - Fellow

American Head and Neck Society - Fellow

Christian Medical-Dental Society

Phi Beta Kappa

Maryland Society of Otolaryngology

Christian Society of Otolaryngology-Head and Neck Surgery

American Association of Cancer Research

American Laryngological, Otological, and Rhinological Society

Administrative Appointments

Johns Hopkins University:

**Department of Otolaryngology - Head and Neck Surgery:**

Resident Research Advisory Committee	1987- present
Performance Improvement Committee	1989- present
Residency Selection Committee	1993, 1995, 1996, 1998
Deputy Director - The Johns Hopkins Head and Neck Cancer Center	1997- 2001
Director, The Johns Hopkins Head and Neck Cancer Center	2001- present

**School of Medicine:**

Physician Leader: Provider Order Entry Selection Group	2001-
Joint Committee on House Staff and Postdoctoral Programs	1991- 2002
Cancer Committee	1996- present
Committee on the future of the faculty	1997

Professional Society Committees:

**American Society for Head and Neck Surgery**

Secretary	2001-
Webmaster:	2001-
Council Member at Large	1997-2001
Advanced Training Council for Oncologic	1998-2003

Head and Neck Surgery member

Research Committee	1992-1995
as Special Consultant	1995-1997

Fellowship and Scholarship Committee	1994-1997
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Prevention Committee	1998-2001
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Executive Committee	2000-
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Credentials Committee	2000-2004
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American Academy of Otolaryngology-Head and Neck Surgery Foundation and  
American Board of Otolaryngology

Task Force for New Materials	1995- 1998
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Committee on Research in Otolaryngology	1995- present
Grants and Manuscripts Subcommittee	1997- present

Head and Neck Surgery and Oncology	1996-1999
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Task Force on Scope of Knowledge	1996- present
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Guest Examiner, ABO Board Exam	1997, 1998, 2001
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Practice Expense Consensus Panel	November, 2001, August 10, 2002
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Advisory Committees

Eastern Cooperative Oncology Group	
Head and Neck Committee	1993- present
Co-Chair for Basic Science	1997- present

Radiation Therapy Oncology Group	1993- present
Head and Neck Surgical Committee	
Head and Neck Committee	

American College of Surgeons Oncology Group	1998-
Head and Neck Organ Site Committee	

American Society of Clinical Oncology  
Head and Neck Cancer Program Subcommittee

1999, 2000

**NATIONAL INSTITUTES OF HEALTH - Advisory Activities**

1. National Strategic Planning Conference for the Prevention and Control of Oral Pharyngeal Cancer, August 7-9, 1996, Chicago, IL.
2. Strategic Planning Conference on Staging in Head and Neck Cancer, September 20-21, 1996, Washington, DC.
3. National Institutes of Health: Clinical Trials Evaluation Program  
Intergroup Correlative Sciences Review Committee  
for Head and Neck Cancer  
Friday, December 5, 1997, Invited presenter.  
August 25, 1998.
4. Head and Neck Cancer Priority Setting Workshop, Bethesda, MD, February 21-23, 1999.  
Leader of Breakout Session IV.3.
5. Head and Neck Intergroup Meeting, Rockville, MD, September 8, 2000. Invited talk,  
"Molecular markers in head and neck cancer."  
  
CTEP meeting, Rockville, MD, April 6, 2001.
6. Network of dentists, oral surgeons, oral oncologists and oral pathologists to acquire and  
make available premalignant oral lesions. The National Institute of Dental and Craniofacial  
Research, Bethesda, MD, May 24, 2001.

**Scientific Review Activities**

1. Special Emphasis Panel Reviewer, National Institute on Deafness and Other  
Communication Disorders, Program Project application, April 13, 1999.
2. Special Emphasis Panel Reviewer: International Oral Health Research Planning Grant,  
National Institute of Dental and Craniofacial Research, December 5-6, 1999.
3. Special Emphasis Panel Reviewer: Technology for oral screening RFA, National Institute of  
Dental and Craniofacial Research, July 17-18, 2002.

## EDITORIAL ACTIVITIES

Associate Editor for basic sciences	<i>Head and Neck</i>	2000-
International Board	<i>Acta Oto-Laryngologica</i>	2000-

## Journal Peer Review Activities

<i>Archives of Otolaryngology - Head and Neck Surgery</i>	1988- present
<i>The Laryngoscope</i>	1991- present
<i>Otolaryngology-Head and Neck Surgery</i>	1991- present
<i>Dysphagia</i>	1993-1995
<i>Cancer Research</i>	1996- present
<i>Cancer</i>	1996- present
<i>Clinical Cancer Research</i>	1996- present
<i>Journal of the National Cancer Institute</i>	1997- present
<i>Acta Oto-Laryngologica</i> International Board	1998- present 2000-
<i>International Journal of Cancer</i>	1998-present
Abstractor - head and neck oncology basic science articles for <i>Head and Neck</i> .	1989-1992

## CONSULTANTSHIPS

1. p53 Advisory Board - Rhone-Poulenc Rorer Pharmaceuticals, February 4,5, 1999.
2. Electroporation for Head and Neck Cancer Treatment, Ethicon Endo-Surgery, Chicago, IL October 8, 1999.
3. Consulting peer reviewer during preparation of manuscript: "Optimizing quality of care and cost effectiveness in treating allergic rhinitis in a managed care setting." Written by Sean D.

Sullivan, Pharm D, David B. Nash, MD, MBA, Stephen W. Schondelmeyer, Pharm D. for *The American Journal of Managed Care*, September-December, 1999.

4. Zila, Inc. Medical Advisory Board, April, 2002 to present

## **CONTINUING EDUCATION COURSES**

### Attendance

1. AO/ASIF Maxillofacial Course - Basic Applications. Davos, Switzerland. December 3-8, 1989.
2. Johns Hopkins Functional Endoscopic Sinuscopy Course, Baltimore, MD, January 4-6, 1990.
3. AO/ASIF Advanced Maxillofacial Course, Phoenix, AZ, February 28-March 3, 1990.
4. Nineteenth Annual Symposium: Care of the Professional Voice. Philadelphia, PA, June 7 and 8, 1990.
5. Third International Head and Neck Oncology Research Conference. Las Vegas, NV, September 26-28, 1990.
6. AO/ASIF Mandibular Reconstruction Course, Baltimore, MD, November 10, 1990. (Faculty)
7. Design and Analysis Issues in Clinical Trials. Baltimore, MD, June 13-14, 1991.
8. Environmental Carcinogenesis and Its Prevention: The Head and Neck Cancer Model. Hershey, PA, October 6-8, 1991.
9. Third International Conference on Head and Neck Cancer. San Francisco, CA, July 26-30, 1992.
10. Annual Meeting of the Academy of Otolaryngology-Head and Neck Surgery. Washington, D.C., September 14, 1992.
11. 1992 Clinical Congress of the American College of Surgeons. New Orleans, LA., September 12-13, 1992
12. Southern Sectional Meeting of the Triological Society, Boca Raton, FL, January 15, 16, 1993.

13. Annual Meeting of the Academy of Otolaryngology-Head and Neck Surgery. Minneapolis, MN, October 2-4, 1993.
14. Primary Otolaryngology for the Primary Care Physician. Baltimore, MD, October 16, 1993.
15. Annual Meeting of the American Society for Head and Neck Surgery, Palm Beach, FL, May 10-12, 1994.
16. The Fourth Research Workshop on the Biology, Prevention and Treatment of Head and Neck Cancer, Arlington, VA, September 8-11, 1994.
17. Annual Meeting of the American Academy of Otolaryngology - Head and Neck Surgery, New Orleans, LA, September 17-20, 1995.
18. Southern Sectional Meeting of the American Laryngological, Rhinological and Otological Society, Naples, FL, January 4-6, 1996.
19. International Symposium on Advances in Head and Neck Cancer, Kiel, Germany, January 18-20, 1996.
20. 4th International Conference on Head and Neck Cancer, Toronto, Canada, July 28-August 1, 1996.
21. Annual Meeting of the American Academy of Otolaryngology - Head and Neck Surgery, Washington, DC, September 30-October 1, 1996.
22. Basic and Clinical Research in Head and Neck Cancer, Tokyo, Japan, April 22-24, 1997.
23. 39<sup>th</sup> Annual Meeting of the American Society for Head and Neck Surgery, Phoenix, AZ, May 12,13, 1997.
24. Third European Workshop on Basic Biology of Head and Neck Cancer, Oslo, Norway, August 28-30, 1997.
25. Asia-Pacific Head and Neck Cancer Congress, Mumbai, India, December 11-14, 1997.
26. American Society for Head and Neck Surgery, Annual meeting, May 14-16, 1998, Palm Beach, FL.
27. Brown University Oncology Group, "Neoadjuvant Therapy for Head and Neck Cancer - A New Paradigm," Providence, RI, December 3, 1998 (3 hours).

28. Combined Otolaryngology Spring Meetings, Annual meetings of the American Head and Neck Society and the Triological Society, April 24-28, 1999 (10 hours).
29. American Society of Clinical Oncology, Annual Meeting, Atlanta, GA, May 16, 1999 (2 hrs).
30. American Academy of Otolaryngology-Head and Neck Surgery, Annual Meeting, New Orleans, LA, September 26-28, 1999.
31. American Society for Clinical Oncology, annual meeting, New Orleans, LA, May 20-22, 2000.
32. Society for Surgical Oncology, annual meeting, New Orleans, LA, March 16, 2000.
33. 5<sup>th</sup> International Conference on Head and Neck Cancer, San Francisco, CA, July 29-August 2, 2000.
34. American Academy of Otolaryngology-Head and Neck Surgery, Annual Meeting, Washington, DC, September 23-26, 2000.
35. Head and Neck Cancer 2001, The Johns Hopkins University, Baltimore, MD. March 9-10, 2001.
36. 92<sup>nd</sup> Annual Meeting, American Association of Cancer Research, New Orleans, LA, March 24-27, 2001.
37. Combined Otolaryngology Spring Meetings, Annual Meeting of the American Head and Neck Society and the Triological Society, Palm Desert, CA, May 13-16, 2001.
38. American Academy of Otolaryngology-Head and Neck Surgery, Annual Meeting, Denver, CO, September 9-11, 2001.
39. Southern Section Meeting of the Triological Society, Captiva Island, FL, January 10-12, 2002.
40. Annual Meeting of the American Head and Neck Society, Boca Raton, FL, May 9-13, 2002.