

Jay O. Boyle, M.D.

Assistant Attending Surgeon
Head and Neck Service, Memorial Sloan-Kettering Cancer Center
1275 York Ave. New York, NY 10021

Undergraduate Education:

University of Arizona College of Arts and Sciences '81-'84
University of Arizona College of Pharmacy '84-'86

Medical School:

University of Arizona College of Medicine '86-'90
Degree: M.D. 1990

Research Fellowship: Cancer Biology '90-'91

University of Arizona. Arizona Cancer Center, Cancer Biology

Clinical Residency: Otolaryngology/Head and Neck Surgery '91-'96

Johns Hopkins Hospital
Department of Otolaryngology Head and Neck Surgery, Baltimore, MD '91-'96

Clinical Fellowship: Head and Neck Surgical Oncology '96-'98

Memorial Sloan-Kettering Cancer Center, New York

Current Appointments:

Assistant Attending, Head and Neck Service, Department of Surgery, Memorial Hospital
1999

Assistant Member, Memorial Sloan-Kettering Cancer Center 1999

Assistant Professor of Surgery, Weil Medical College of Cornell University 1999

Consultant Strang Cancer Prevention Center NY, NY 1999

Member Cancer Prevention DMT MSKCC 2000

Director Head and Neck Surgical Oncology Fellowship Program, 2002

Honors and Awards

American Society of Clinical Oncology Young Investigator Award '97

Maryland Society of Otolaryngology Resident Research Award '93

Rho Chi National Pharmacy Scholar '86

T-32 National Cancer Institute Training Grant recipient '96-'98

National Cancer Institutes Training Grant recipient '90-'91,

National Institutes of Health Student Research Grant '89-'90

Board Certification:

Diplomate of the American Board of Otolaryngology: 4/28/97
Certificate #15516

Fellow American College of Surgeons (convocation 10/10/04 New Orleans)

Medical Licensure:

New York: #205176

Society Membership:

American Academy of Otolaryngology/Head and Neck Surgery Foundation
American Board of Otolaryngology
American Association of Cancer Research
American College of Surgeons
American Head and Neck Society
American Society of Clinical Oncology
New York Cancer Society
New York Head and Neck Society
Radiation Therapy Oncology Group
International Society for the Prevention of Cancer
North American Skull Base Society
Yul Brenner HNSCC Prevention Society
Society for Clinical Trials

Society Leadership and Committees:

American Head and Neck Society, Chairman Program Committee '04-'05
American Head and Neck Society, Program Committee '01-'03
New York Head and Neck Society, Chmn By-Laws Committee '01-'03
New York Head and Neck Society, Chmn Research Committee '02-present
North American Skull Base Society, Research Committee '02-present
RTOG, Prevention Committee '99-'05

Educational activities:

Director Fellowship Program in Head and Neck Oncologic Surgery '02-present
Director Head and Neck Cancer Fellows Core Course '02-present
American head and Neck Society, 'Fellowship Info Sessions', Director 2004
Co director Current Concepts in Head and Neck Surgery, MSKCC '02-'03

Editorial Boards:

Reviewer:

Head and Neck
Otolaryngology Head and Neck Surgery
Lancet
Lancet Oncology
Cancer Epidemiology, Biomarkers and Prevention
Cancer Research
Cancer
International Journal of Cancer
Archives of Otolaryngology/HNS
Journal of Surgical Oncology
Annals of Surgical Oncology
Journal of Clinical Oncology
Laryngoscope

NIH and other Study Sections

Clinical Chemoprevention Trials in Former Smokers '02
Program Projects in Head and Neck Rehabilitation '02
Arizona Disease Control and Research Commission '05

Grants and Contracts

'97 American Society of Clinical Oncology Young Investigator Award: "Mechanisms of Retinoid Chemoprevention". PI. \$35,000
'97 SWOG Research Grant "p53, bax, and bcl-2 Expression in Stage III Lung Cancer"

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Co-investigator.

- '01 RO1 CA 82578-01A2 (AJ Dannenberg PI) MSKCC PI \$100,000 over 5yrs.
- '01 Industrial Contract Searle/Pharmacia for Celebrex Leukoplakia, PI Trial \$170,000
- '02 Industrial Contract Pharmacia for Celebrex In Human HNSCC, PI \$30,000
- '02 Industrial Contract Astra Zeneca for Celebrex and Iressa in HNSCC, CO-I \$93,000
- '02 T32 Training Grant, competing renewal author and CO-I. (Shah PI) \$1,056,500
- '03 MSKCC Society Prevention Research Grant, PGE in HNSCC, Co-PI \$28,000
- '03 MSKCC Society Prev. Research Grant, Genetic Profiles and Cessation, PI \$22,000
- '04 MSKCC Society Award Radiation Effects on Molecular Targets, co-I, \$20,500
- '04 NCI 1R03-CA-107883 International Oral Leukoplakia Trial, PI, \$100,000 funded
- '04 NCI R21 DE16390-01 Planning Grant for Prevention Trials, PI, \$200,000
- '04 NCI contract, NO1-CN 35159 Avandia for Oral Leukoplakia Multi Institutional Trial, PI, \$427,000

Basic Science Research:

- P53 gene mutations in cancer and premalignant lesions. 1993
- Molecular markers of cancer in saliva. 1994
- Molecular mechanisms of retinoid chemoprevention. 1996
- Molecular assessment of PPAR gamma gene in head and neck cancer. 1999.
- Mechanisms of carcinogenesis and chemoprevention of head and neck cancer. 1999
- Nude mouse xenograft model of head and neck cancer. 2000
- Mechanisms of tobacco related carcinogenesis. 2001
- Tobacco carcinogen metabolism. 2002
- COX-2 and head and neck cancer treatment and prevention. 2003
- Prostaglandin pathways in head and neck cancer. 2003
- Translational research in new targets for cancer prevention. 2004

Clinical Trials And Protocols:

- 91-124 Chemoprevention 13-CRA RTOG co-PI, 1999
- 00-111 Celebrex Treatment of Oral Leukoplakia. PI, 1999
- 89-167 Biology of the Premalignant State. PI, 1999
- COX-2 Expression in Leukoplakia NYU Dental School, Author and co-Invest. 2000
- COX-2 Expression in Leukoplakia, UCONN Dental School, Author and co-Invest. 2000
- COX-2 Expression for Smoking Cessation Biofeedback, PI, 2002
- COX-2 Expression in Buccal mucosa of smokers and non-smokers, Cornell, Co-I, 2002
- 03-152 PGE in HNSCC PI, 2003
- 03-147 Molecular Effects of Celecoxib in HNSCC, PI 2004
- NCI contract: Avandia in Oral Leukoplakia: Multi Institutional Trial, PI 2004
- International Multi Institutional Trial of Sulindac for Oral Leukoplakia, PI 2004
- RTOG Protocol 226. Celebrex and Prevention of Second Primary HNSCC, Co-I, 2003

Hospital Committees:

- General Surgery Research Protocol Review Committee '00-present
- Medication Process Improvement Committee '00-'02
- General Surgery QA Committee since '00-present
- Anesthesia QA Committee '02-present
- General Surgery Case Management Committee '00-'02

Presentations at National and International Meetings:

- De Lorenzo MS, Chang M, Du B, Cohen EG, Kazior A, Miller C, Boyle JO, Subbaramaiah K, Dannenberg AJ. Iressa (ZD 1839) Inhibits the Expression of COX-2 and the Growth of Experimental Head and Neck Squamous Cell Carcinoma. AACR Orlando FL 5/2004

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Jay O. Boyle, p.4

Taghreed Almahmeed, Jay O. Boyle, Philip Lazarus, Kotha Subbaramaiah, Andrew J. Dannenberg. Glucuronidation Of Benzo[A]Pyrene Phenols Suppresses The Induction Of Cyp1a1, Cyp1b1 And Cyclooxygenase-2 (Cox-2) In Cell Lines From The Human Aerodigestive Tract. AACR poster presentation Washington DC, 4/2003

Cohen E, Subbaramaiah K, Zhang F, Du B, Boyle JO, Dannenberg AJ, Microsomal Prostaglandin E synthase in HNSCC. Frontiers in Cancer Prevention Research – AACR Boston, MA 10/2002

C u r r i c u l u m V i t a e Jay O. Boyle, p.5

Moraitis D, Boyle JO, Dannenberg AJ. Tobacco smoke induces cyclooxygenase-2 in epithelial cells lines derived from the human aerodigestive tract. Proceedings of the American Association for Cancer Research, 2002.

Boyle JO, Suh GH, Lin D, Sacks PG. Differences In Retinoid Responses Between An In Vitro Model Of Lung Carcinogenesis And An In Vitro Model Of Oral Carcinogenesis. Tumor Prevention and Genetics 2000 International Society of Cancer Prevention, 2000.

Lin D, Sacks PG, Subbaramiah K, Boyle JO, Dannenberg AJ. Ligands of PPAR α Possess Chemopreventive Properties Against Squamous Cell Carcinoma of the Head and Neck. AACR meeting 2000.

Wreesmann V, Lim D, Ghossein R, Rosai J, Shaha AR, Shah JP, Boyle JO, Pulivarti HR, Singh B. Genetic aberrations in Papillary Thyroid Carcinomas identified by comparative Genomic Hybridization. AHNS meeting 2000.

Boyle JO, Yeung H, Chisin R, Krol G, Kraus DH, Singh B, Erdi Y. Fusion of Positron Emission Tomography (PET) and Magnetic Resonance Images (MRI) In Head and Neck Cancer. AHNS meeting 2000.

Lin D, Sacks PG, Subbaramiah K, Boyle JO, Shah JP, Kadeshian PA, Dannenberg AJ. Peroxisome Proliferator-Activated Receptor (PPAR) α Ligands Possess Anticancer Properties Against Head and Neck Squamous Cell Carcinoma. AHNS meeting 2000.

Wolden SL, Zelefsky MJ, Pfister DG, Shah JP, Shaha AR, Kraus DH, Rosenzweig KE, Chong LM, Boyle JO, Singh B, Leibel SA. Improving Radiotherapy for Nasopharyngeal Carcinoma: A 3D Boost is Not Enough AHNS meeting 2000.

Suh GD, Boyle JO, Lin D, Sacks PG. 13-*cis*-retinoic acid (13CRA) causes growth suppression, cyclin d1 repression, but not RAR beta induction, in normal oral epithelial cells in an *in vitro* model of oral carcinogenesis. AACR: Molecular Targets in Therapeutics, 1999.

Chan G, Boyle JO, Yang EK, Zhang F, Koki A, Lin D, Subbaramiah K, Sacks PG, Woerner B, Edelstein D, Shah JP, Dannenberg AJ. Cyclooxygenase-2 is upregulated in squamous cell carcinoma of the head and neck. Presented at the 90th Annual Meeting of the American Association for Cancer Research, 1999.

Boyle JO. Langenfeld J. Lonardo F. Reczek P. Rusch V. Dawson M. Dmitrovsky E. Cyclin D1 Repression Is a Retinoid Chemoprevention Signal in Normal, Immortalized, and Transformed Human Bronchial Epithelial Cells. *Journal of the National Cancer Institute.* 1998
(Presented at the Society of Head and Neck Surgeons annual meeting, 1998.)

Boyle JO. Frodel JL. Funk G. Management of Aggressive Midface and Orbital Fibrous Dysplasia. American Academy of Facial Plastic and Reconstructive Surgery Fall Meeting, Washington D.C., 1996.

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(5):429-32, 1994. (Presented at the annual meeting of The

Boyle JO. Hakim J. Koch W. van der Riet P. Hruban RH. Roa RA. Correo R. Eby YJ. Ruppert JM. Sidransky D. The Incidence of P53 Mutations Increases with Progression of Head and Neck Cancer. *Cancer Res.* 53(19):4477-80, 1993. (Presented at the annual meeting of the American Academy of Otolaryngology-Head and Neck Surgery, 1993.)

Boyle JO. Coulthard SW. Mandel RM. Laryngeal Involvement in Disseminated Coccidioidomycosis. *Arch Otolaryngol Head Neck Surg.* 117(4):433-8, 1991. (Presented at the annual meeting of The Walter Work Society, 1990.)

Boyle JO, Schimm D, Coulthard SW. Radiation Therapy for Paragangliomas of the Temporal Bone. *Laryngoscope.* 100(8):896-901, 1990. (Presented at the Western Medical Student Research Forum, 1990.)

Invited Lectures, United States:

American Academy of Otolaryngology, AHNS informational Sessions for Head and Neck Fellowship Applicants. September 20th 2004 New York, New York.

University of Medicine and Dentistry of New Jersey, Department of Otolaryngology Grand Rounds. 'Management of Oral Leukoplakia' September 13th, 2004

American Head and Neck Society 6th International Conference on Head and Neck Cancer. Course Chairman: 'Basic Science – Predictors of Survival' Washington DC. August 7, 2004

Society of Clinical Trials Annual Meeting: "Planning an International Trial of sulindac for Oral Leukoplakia in India" New Orleans, May 2004

University of Pennsylvania Department of Otolaryngology Grand rounds "Translational Research: New Targets for HNSCC Prevention and Treatment" Philadelphia, PA 7/22/04

University of Arizona Department of Surgery Grand Rounds, "COX-2 in Tobacco related Cancer", Tucson, AZ 10/2003

University of Washington, Otolaryngology/ Head and Neck Surgery Grand Rounds, "The role of COX-2 in Carcinogenesis of Head and Neck Cancer; Translational Methods", Seattle, Washington, 9/2003

Current Concepts in Head and Neck Surgery, MSKCC, "Management of Oral Cancer" 11/2002

Current Concepts in Head and Neck Surgery, MSKCC, "Management of Neck" 11/2002

Insights in COX-2 Targeting for Cancer Treatment and Prevention Symposium, West Palm Beach, FL "COX-2 inhibitors in Aerodigestive Tract Carcinoma Prevention". 9/2002

American Academy of Otolaryngology/HNS, Instructional Tapes, "Current Literature in

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Head and Neck Cancer". 9/2002

Columbia College of Physicians and Surgeons, Department of Otolaryngology Grand Rounds, "Clinical Management of Oral Cancer", 3/2002

Weill Medical College of Cornell University, Department of Otolaryngology Seminar Series. "Management of the Mandible in Oral cancer". 6/2002

Milton J. Dance 25th Anniversary Symposium on Head and Neck Cancer. Greater Baltimore Medical Center. "The role of COX-2 in Carcinogenesis of Head and Neck Cancer". 10/2001

Current Concepts in Head and Neck Surgery, MSKCC, "Maxillectomy: How I Do it" 11/2001

Current Concepts in Head and Neck Surgery, MSKCC, "Oral Leukoplakia" 11/2001

National Corporate Medical Associates Program. MSKCC. Screening for Head and Neck Cancer". 5/2001

Johns Hopkins Hospital Department of Otolaryngology. "Chemoprevention and Cox-2 Inhibitors". 4/2001

Weill Medical College of Cornell University, Guest Lecturer. "Precancerous Lesions and Tobacco Exposure". 3/2000

Columbia College of Physicians and Surgeons, Department of Otolaryngology. "Management of the Mandible in Oral Cancer". 2000

Current Clinical Approaches To Alaryngeal Speech, MSKCC. Invited Panelist. 9/2000.

Current Concepts in Head and Neck Surgery, MSKCC, "Management of the Mandible in Oral Cancer" 11/2000

Current Concepts in Head and Neck Surgery, MSKCC, "Chemoprevention" 11/2000

Saint Mary's Hospital, Cancer Center, Grand Rounds, Waterbury, CT. "Oral Cancer Prevention and COX-2 Inhibitors". 1999.

University of Connecticut Dental School Grand Rounds. Farmington, CT. "COX-2 Inhibitors as Chemopreventive Agents for Oral Cancer", 1999.

New York University School of Dentistry. Department of Oral Medicine, New York, NY. "Leukoplakia and Clinical Chemoprevention Trials", 1999.

Current Concepts in Head and Neck Surgery, MSKCC, "The Mandible in Oral Cancer" 11/1999.

Current Concepts in Head and Neck Surgery, MSKCC, "Carcinogenesis and chemoprevention" 11/1999

Universtiy of Colorado School of Medicine Department of Otolaryngology Head and Neck Surgery, Denver CO. "Carcinogenesis and Chemoprevention", 1998.

Fox Chase Cancer Center, Department of Molecular Medicine Seminars, Philadelphia, PA. "Molecular Mechanisms of Chemoprevention of Head and Neck Cancer", 1998.

University of California at Irvine, Chao Famly Cancer Center and Department of Otolaryngology. "Chemoprevention of Head and Neck Cancer", 1998.

Memorial Sloan-Kettering Cancer Center, Head and Neck Cancer Survivors Support Group. "Prospects for Prevention of Head and Neck Cancer", 1997.

Greater Baltimore Medical Center Maryland Society of Otolaryngology Nurses, Baltimore, MD. "Genetic basis of Head and Neck Cancer", 1996.

Invited Lectures, International:

Amrita Institute of Medical Sciences, Inauguration of the Head and Neck Unit. "Inaugural Address. December 4th 2004 Cochin, Kerala, India.

Head and Neck Cooperative Oncology Group Meeting, "US cooperative Oncology Groups: Structure and Current Trials". December 3, 2004. Cochin, Kerala, India.

Head and Neck Cooperative Oncology Group Meeting, "Chemoprevention trials: design and implementation". December 4th, 2004. Cochin, Kerala, India.

5th Annual Scientific Meeting of the Australian and New Zealand Head and Neck Society, Melbourne Australia, "The subsite of oral cancer predicts clinical behavior", 11/2003

9th International Congress on Oral Cancer, Melbourne Australia, "Multiple Oral Carcinogenesis in Nonusers of Tobacco and Alcohol". 11/2003

Updates in Head and Neck Cancer, A.C. Comargo Hospital do Cancer, Sao Paolo Brazil. " Natural History, evaluation and Management of Oral Leukoplakia". 6/2002

Updates in Head and Neck Cancer, A.C. Comargo Hospital do Cancer, Sao Paolo Brazil. " COX-2 Inhibition a Novel Target for Treatment and Prevention of head and Neck Cancer". 6/2002

Updates in Head and Neck Cancer, A.C. Comargo Hospital do Cancer, Sao Paolo Brazil. "Treatment Recommendations Head and neck Cancer". 6/2002

Updates in Head and Neck Cancer, A.C. Comargo Hospital do Cancer, Sao Paolo Brazil. " Outcomes in Oral Cancer". 6/2002

2nd World Congress of the International Federation of Head and Neck Oncologic Societies. Rio de Janeiro, Brazil "Pediatric Head and Neck Sarcoma". 11/2002

2nd World Congress of the International Federation of Head and Neck Oncologic Societies. Rio de Janeiro, Brazil "Results in Craniofacial Resections". 11/2002

2nd World Congress of the International Federation of Head and Neck Oncologic Societies. Rio de Janeiro, Brazil. Skull Base Tumor – Panel. 11/2002

2nd World Congress of the International Federation of Head and Neck Oncologic Societies. Rio de Janeiro, Brazil. Head and Neck Sarcoma - Panel. 11/2002

Tumor Prevention and Genetics 2000, International Society of Cancer Prevention, St. Gallen, Switzerland. “Differences In Retinoid Responses Between An *In Vitro* Model Of Lung Carcinogenesis And An *In Vitro* Model Of Oral Carcinogenesis”. 2/2000

Publications: peer reviewed journals (38)

Moraitis D, Du B, De Lorenzo MS, Boyle JO, Weksler BB, Cohen EG, Carew JF, Altorki NK, Kopelovich L, Subbaramaiah K, Dannenberg AJ. Levels of cyclooxygenase-2 are increased in the oral mucosa of smokers: evidence for the role of epidermal growth factor receptor and its ligands. *Cancer Res.* 2005 Jan 15;65(2):664-70.

Boyle JO. Cyclooxygenase inhibition as a target for prevention of tobacco-related cancers. *Clin Cancer Res.* 2004 Mar 1;10(5):1557-8.

Cohen EG, Patel SG, Lin O, Boyle JO, Kraus DH, Singh B, Wong RJ, Shah JP, Shaha AR. Fine-needle aspiration biopsy of salivary gland lesions in a selected patient population. *Arch Otolaryngol Head Neck Surg.* 2004 Jun;130(6):773-8.

Almahmeed T, Boyle JO, Cohen EG, Carew JF, Du B, Altorki NK, Kopelovich L, Fang JL, Lazarus P, Subbaramaiah K, Dannenberg AJ. Benzo[a]pyrene phenols are more potent inducers of CYP1A1, CYP1B1 and COX-2 than benzo[a]pyrene glucuronides in cell lines derived from the human aerodigestive tract. *Carcinogenesis.* 2004 May;25(5):793-9.

Boyle JO, Patel SG, Shah JP, Management of oral and oropharyngeal cancers. *Oral Disease* 2003 (9), 109-111.

Matsuo JM, Patel SG, Singh B, Wong RJ, Boyle JO, Kraus DH, Shaha AR, Zelefsky MJ, Pfister DG, Shah JP. Clinical nodal stage is an independently significant predictor of distant failure in patients with squamous cell carcinoma of the larynx. *Ann Surg.* 2003 Sep;238(3):412-22.

Cohen EG, Almahmeed T, Du B, Golijanin D, Boyle JO, Soslow RA, Subbaramaiah K, Dannenberg AJ. Microsomal prostaglandin E synthase-1 is overexpressed in head and neck squamous cell carcinoma. *Clin Cancer Res.* 2003 Aug 15;9(9):3425-30.

Estilo CL, O-Charoenrat P, Ngai I, Patel SG, Reddy PG, Dao S, Shaha AR, Kraus DH, Boyle JO, Wong RJ, Pfister DG, Hury JM, Zlotolow IM, Shah JP, Singh B. The Role of Novel Oncogenes Squamous Cell Carcinoma-related Oncogene and phosphatidylinositol 3-Kinase p110alpha in Squamous Cell Carcinoma of the Oral Tongue. *Clin Cancer Res.* 2003 Jun;9(6):2300-2306.

Patel SG, Prasad ML, Escrig M, Singh B, Shaha AR, Kraus DH, Boyle JO, Huvos AG,

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- Busam K, Shah JP. Primary mucosal malignant melanoma of the head and neck. *Head Neck.* 2002 Mar;24(3):247-57.
- Stojadinovic A, Shaha AR, Orlikoff RF, Nissan A, Kornak MF, Singh B, Boyle JO, Shah JP, Brennan MF, Kraus DH Prospective functional voice assessment in patients undergoing thyroid surgery. *Ann Surg.* 2002 Dec;236(6):823-32.
- Patel SG, Meyers P, Huvos AG, Wolden S, Singh B, Shaha AR, Boyle JO, Pfister D, Shah JP, Kraus DH. Improved outcomes in patients with osteogenic sarcoma of the head and neck. *Cancer.* 2002 Oct 1;95(7):1495-503.
- Patel SG, Coit DG, Shaha AR, Brady MS, Boyle JO, Singh B, Shah JP, Kraus DH. Sentinel lymph node biopsy for cutaneous head and neck melanomas. *Arch Otolaryngol Head Neck Surg.* 2002 Mar;128(3):285-91.
- Lin DT, Subbaramaiah K, Shah JP, Dannenberg AJ, Boyle JO. Cyclooxygenase-2: a novel molecular target for the prevention and treatment of head and neck cancer. *Head Neck.* 2002 Aug;24(8):792-9.
- Dannenberg AJ, Altorki NK, Boyle JO, Dang C, Howe LR, Weksler BB, Subbaramaiah K Cyclo-oxygenase 2: a pharmacological target for the prevention of cancer *The Lancet Oncology* vol 2:9 pp 544-551, September 2001.
- Dannenberg AJ, Altorki NK, Boyle JO, Lin DT, Subbaramaiah K Inhibition of cyclooxygenase-2: an approach to preventing cancer of the upper aerodigestive tract. *Ann N Y Acad Sci* 2001 Dec;952:109-15.
- Boyle JO. Retinoid mechanisms and cyclins. *Curr Oncol Rep.* 2001 Jul;3(4):301-5.
- Boyle JO, Lonardo F, Chang JH, Klimstra D, Rusch V, Dmitrovsky E. Multiple high-grade bronchial dysplasia and squamous cell carcinoma: concordant and discordant mutations. *Clin Cancer Res.* 2001 Feb;7(2):259-66.
- Frodel JL, Funk G, Boyle J, Richardson M. Management of aggressive midface and orbital fibrous dysplasia. *Arch Facial Plast Surg* Jul-Sep;2(3):187-95, 2000.
- Singh B, Kim SH, Carew JF, Yu I, Shaha AR, Wolden S, Boyle J, Shah JP, Rao PH Genome-wide screening for radiation response factors in head and neck cancer. *Laryngoscope* 2000 Aug;110(8):1251-6, 2000.
- Mestre, J. R., Chan, G., Zhang, F., Yang, E. K., Sacks, P. G., Boyle, J. O., Shah, J. P., Edelstein, D., Subbaramaiah, K., and Dannenberg, A. J. Inhibition Of Cyclooxygenase-2 Expression. An Approach To Preventing Head And Neck Cancer. *Ann.N.Y.Acad.Sci.*, 889: 62-71, 1999.
- Chan G. Boyle JO. Yang EK. Zhang F. Sacks PG. Shah. JP. Edelstein D. Sosolow RA. Koki AT. Woerner BM. Masferrer JL. Dannenberg AJ. Cyclooxygenase-2 Expression is Up-Regulated in Squamous Cell Carcinoma of the Head and Neck. *Ca Res* 59:991-4, 1999.

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- Boyle JO. Langenfeld J. Lonardo F. Reczek P. Rusch V. Dawson M. Dmitrovsky E. Cyclin D1 Repression Is a Retinoid Chemoprevention Signal in Normal, Immortalized, and Transformed Human Bronchial Epithelial Cells. *Journal of the National Cancer Institute.* 91(4):373-9, 1999.
- Califano J. Westra WH. Koch W. Meininger G. Reed A. Yip L. Boyle JO. Lonardo F. Sidransky D Unknown Primary Head and Neck Squamous Cell Carcinoma: Molecular Identification of the Site of Origin. *Journal of the National Cancer Institute.* 91(7):599-604, 1999.
- Boyle JO. Shah KC. Shah JP. Craniofacial Resection for Malignant Neoplasms of the Skull Base: An Overview. *J Surg Oncol* 69(4):275-84. 1998.
- Langenfeld J. Kiyokawa H. Sekula D. Boyle J. Dmitrovsky E. Posttranslational Regulation of Cyclin D1 by Retinoic Acid: A Chemoprevention Mechanism. *Proc Natl Acad Sci* 94(22):12070-12074, 1997.
- Brennan JA. Mao L. Hruban RH. Boyle JO. Eby YJ. Koch WM. Goodman SN. Sidransky D. Molecular Assessment of Histopathological Staging in Squamous-cell Carcinoma of the Head and Neck. *New England Journal of Medicine.* 332(7):429-35, 1995.
- Brennan JA. Boyle JO. Koch WM. Goodman SN. Hruban RH. Eby YJ. Couch MJ. Forastiere AA. Sidransky D. Association Between Cigarette Smoking and Mutation of the p53 Gene in Squamous-cell Carcinoma of the Head and Neck. *New England Journal of Medicine.* 332(11):712-7, 1995 .
- Koch WM. Patel H. Brennan J. Boyle JO. Sidransky D. Squamous Cell Carcinoma of the Head and Neck in the Elderly. *Arch Otolaryngol Head Neck Surg.* 121(3):262-5, 1995.
- 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(5):429-32, 1994.
- Koch WM. Boyle JO. Mao L. Hakim J. Hruban RH. Sidransky D. p53 Gene Mutations as Markers of Tumor Spread in Synchronous Oral Cancers. *Arch Otolaryngol Head Neck Surg.* 120(9):943-7, 1994.
- Mao L. Hruban RH. Boyle JO. Tockman M. Sidransky D. Detection of Oncogene Mutations in Sputum Precedes Diagnosis of Lung Cancer. *Cancer Res.* 54(7):1634-7, 1994.
- Sidransky D. Boyle J. Koch W. Molecular Screening. Prospects for a New Approach. *Arch Otolaryngol Head Neck Surg.* 119(11):1187-90, 1993.
- Boyle JO. Hakim J. Koch W. van der Riet P. Hruban RH. Roa RA. Correo R. Eby YJ. Ruppert JM. Sidransky D. The Incidence of P53 Mutations Increases with Progression of Head and Neck Cancer. *Cancer Res.* 53(19):4477-80, 1993.

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Sidransky D. Boyle J. Koch W. van der Riet P. Oncogene Mutations as Intermediate Markers. *J Cell Biochem Suppl.* 17F:184-7, 1993.

Garewal HS. Ramsey L. Kaugars G. Boyle J. Clinical Experience with the Micronucleus Assay. *J Cell Biochem Suppl.* 17F:206-12, 1993.

Boyle JO. Meyskens FL Jr. Garewal HS. Gerner EW. Polyamine Contents in Rectal and Buccal Mucosae in Humans Treated with Oral Difluoromethylornithine. *Cancer Epidemiol Biomarkers Prev.* 1(2):131-5, 1992.

Boyle JO. Coulthard SW. Mandel RM. Laryngeal Involvement in Disseminated Coccidioidomycosis. *Arch Otolaryngol Head Neck Surg.* 117(4):433-8, 1991.

Boyle JO, Schimm D et al. Radiation Therapy for Paragangliomas of the Temporal Bone. *Laryngoscope.* 100(8):896-901, 1990.

Blanchard J. Boyle JO. Van Wegenen S. Determination of the Partition Coefficients, Acid Dissociation Constants, and Intrinsic Solubility of Carbenoxolone. *J Pharm Sci.* 77(6):548-52, 1988.

Book Chapters:

Boyle JO. Strong EW. Oral Cavity Cancers. in Cancer of the Head and Neck BC Decker London 2001. Ed. Shah JP

Boyle JO. Cancers of the Oral Cavity and Oropharynx. In General Surgery ED. Bland K. 2001

Boyle JO. O'Malley B. Huvos AG. Shah JP. Diagnosis and Staging of Head and Neck Cancer in Developed and Developing Countries. UICC Manual of Cancer Diagnosis and Staging. 1998.

Boyle JO. Shah JP. Surgical Ablation of Intra Oral Tumors. in Maxillofacial Surgery ED. Booth PW. Hausamen JE. Schendel S. Churchill Livingstone London, 1998.

Boyle JO. Shah JP. Surgical Management of the Neck in Oral Cancer. in Maxillofacial Surgery ED. Booth PW. Hausamen JE. Schendel S. Churchill Livingstone London, 1998.

Boyle JO. Kraus D. Functional Rehabilitation of the Head and Neck Cancer Patient. in Essentials of Head and Neck Oncology Ed. Close LG, Larson DL, Shah JP. Thieme Medical Publishers, New York, 1997.

Abstracts (partial list):

Lin K, Patel SG, Chu P, Matsuo J, Songh B, Wong R, Kraus D, Shaha AR, Shah JP, Boyle JO. Second primary malignancy of the aerodigestive tract in patients with oral cavity and larynx cancer. 6th International Conference on Head and Neck Cancer. Washington DC, 2004.

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