



Howell O. Archard Jr. Symposium in Oral & Craniofacial Pathology

Molecular Pathology of Oral Cancer: Implications for Personalized Diagnosis, Prognosis, and Treatment

9am – 12pm • March 31, 2017

Irving Cancer Research Center - Florence Irving Auditorium
1130 St. Nicholas Avenue (at West 166th Street), New York City

Course Description

This course will provide clinicians from various disciplines with an introduction to clinical and translational research relating to oral squamous cell carcinoma. Clinical/translational research is a new and evolving paradigm in the biomedical enterprise that attempts to improve patient and community health by accelerating basic science discoveries in the laboratory to their application in clinical practice. This perspective affects all healthcare professionals and their knowledge, skills and competencies.

Learning Objectives

- Learn about the molecular changes that occur in oral epithelial cells as the neoplastic changes are initiated
- Understand how identification of molecular changes implicated in oral carcinogenesis can be utilized to develop biomarkers for early detection, diagnosis and prognostication, as well as guidance in selection of appropriate treatment
- Learn how the key molecules implicated in carcinogenesis can be targeted with chemopreventive and chemotherapeutic agents to improve patients' overall survival

Course Directors

Sidney B. Eisig, DDS

George Guttman Professor of Craniofacial Surgery; Director, Division of Oral and Maxillofacial Surgery; Chief, Hospital Dental Services, Columbia University Medical Center / NewYork-Presbyterian Hospital/Children's Hospital of New York / College of Dental Medicine

Angela J. Yoon, DDS, MPH, MAMSc.

John W. Richter Associate Prof. of Oral Pathology, College of Dental Medicine & Dept. of Pathology and Cell Biology, Program Director, Oral & Maxillofacial Pathology Residency

Guest Speakers

Clinical Presentation of Oral Pre-cancer and Cancer and Multistep Molecular Alterations Associated with Oral Carcinogenesis

James J. Sciubba, DMD, PhD - Diplomate, Oral & Maxillofacial Pathology

Molecular Biomarkers for Oral Cancer Detection and Prognostication

Regina P. Santella, PhD - Professor of Environmental Health Sciences & Vice Dean, Faculty Affairs and Research, Mailman School of Public Health Columbia University;
Director, Biomarkers Shared Resource, Herbert Irving Comprehensive Cancer Center;
Co-leader Cancer Epidemiology Program, Herbert Irving Comprehensive Cancer Center

Bringing Basic Research Discoveries to Bedside

Gary K. Schwartz, MD - Clyde '56 and Helen Wu Professor of Oncology (in Medicine), Columbia University;
Chief, Division of Hematology/Oncology, Columbia University Medical Center;
Associate Director, Herbert Irving Comprehensive Cancer Center

See reverse side for guest speaker biographies.

Register online: <https://www.dental.columbia.edu/education/continuing-education/courses>

Inquiries: Office of Continuing Education - 212-305-7124, dentalce@columbia.edu

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James J. Sciubba, DMD, PhD - Diplomate, Oral & Maxillofacial Pathology



Dr. Sciubba has served as a full Professor in the Departments of Otolaryngology-Head and Neck Surgery, Pathology and Dermatology at the Johns Hopkins School of Medicine. He has over thirty-five years of experience with oral and head and neck cancer patients as a clinician and has published extensively in the areas of oral cancer, oral and salivary gland diseases, and jawbone pathology.

Regina P. Santella, PhD - Professor of Environmental Health Sciences & Vice Dean, Faculty Affairs and Research, Mailman School of Public Health Columbia University;
Director, Biomarkers Shared Resource, Herbert Irving Comprehensive Cancer Center;
Co-leader Cancer Epidemiology Program, Herbert Irving Comprehensive Cancer Center



Dr. Santella's research involves the use of biomarkers for the detection of human exposure to environmental carcinogens in molecular epidemiology studies to identify causative factors, susceptible populations, and preventive interventions. Current studies seek to understand the role of environmental/lifestyle factors on epigenetic changes in DNA methylation and microRNA expression, how they impact cancer risk as well as whether epigenetic changes in can be used for early diagnosis and prognostication of cancer.

Gary K. Schwartz, MD - Clyde '56 and Helen Wu Professor of Oncology (in Medicine), Columbia University;
Chief, Division of Hematology/Oncology, Columbia University Medical Center;
Associate Director, Herbert Irving Comprehensive Cancer Center



Dr. Schwartz is a board-certified medical oncologist and internist and Chief of Columbia University Medical Center's Division of Hematology & Oncology. He directs a laboratory which focuses on the identification of new targeted agents for cancer therapy, especially in the treatment of these diseases. However, these agents are not disease specific and hold promise in the treatment of all solid-tumor malignancies. These laboratory studies allow for a bridge between the laboratory and the clinic, and many of these drugs that he tested in his lab are now being evaluated in clinical trials. He is actively involved in clinical and translational research.