

**Erich J. Schwartz, M.D., Ph.D.**

Surgical Pathologist and Cytopathologist  
System Medical Director, Head & Neck Pathology  
Corewell Health Farmington Hills Hospital  
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**ADDRESS**

Corewell Health Farmington Hills Hospital (East)  
28050 Grand River Avenue  
Farmington Hills, MI 48336

**EDUCATION AND TRAINING**

- 7/2004 – 6/2005 Fellow, Cytopathology  
University of California, San Francisco, CA
- 7/2003 – 6/2004 Fellow, Hematopathology  
Stanford Hospital and Clinics, Stanford, CA
- 7/2002 – 6/2003 Fellow, Immunopathology  
Stanford Hospital and Clinics, Stanford, CA
- 7/2001 – 6/2002 Fellow, Surgical Pathology  
Stanford Hospital and Clinics, Stanford, CA
- 7/1999 – 6/2001 Residency, Anatomic Pathology  
Stanford Hospital and Clinics, Stanford, CA
- 9/1990 – 1/1999 Doctorate of Philosophy, Ph.D., Biophysics  
Stanford University School of Medicine, Stanford, CA
- 9/1990 – 1/1999 Doctor of Medicine, M.D.  
Stanford University School of Medicine, Stanford, CA
- 9/1985 – 6/1990 Bachelor of Arts, B.A., Chemistry  
Ohio State University, Columbus, OH

**PROFESSIONAL MEMBERSHIPS**

- United States and Canadian Academy of Pathology (USCAP)
- College of American Pathologists (CAP)
- American Society of Cytopathology (ASC)

**PROFESSIONAL, ACADEMIC, ADMINISTRATIVE, AND CLINICAL POSITIONS**

**Academic Positions**

- 7/2016 – present Instructor, Pulmonology Fellowship Program  
Corewell Health Farmington Hills Hospital, Farmington Hills, MI

7/2006 – 7/2015	Assistant Professor, Medical Center Line, Department of Pathology Stanford University School of Medicine, Stanford, CA
7/2005 – 7/2015	Instructor, Endocrinology Fellowship Program, Department of Pathology Stanford University School of Medicine, Stanford, CA
7/2005 – 7/2015	Lecturer, Pathology Section: Human Health and Disease, Department of Pathology Stanford University School of Medicine, Stanford, CA
7/2005 – 7/2015	Lecturer, Residency Curriculum, Department of Pathology Stanford University School of Medicine, Stanford, CA
7/2005 – 6/2006	Clinical Assistant Professor, Medical Center Line, Department of Pathology Stanford University School of Medicine, Stanford, CA
1992	Teaching Assistant (medical student), Pathology 230B

### Clinical Positions

12/2015 – present	Staff Pathologist Corewell Health Farmington Hills Hospital, Farmington Hills, MI
7/2005 – 7/2015	Attending Physician and Staff Pathologist Department of Pathology, Lucile Packard Children's Hospital, Stanford, CA
7/2005 – 7/2015	Attending Physician and Staff Pathologist Department of Pathology, Stanford Hospital & Clinics, Stanford, CA

### Administrative Positions

12/2015 – present	Medical Director, Cytopathology Corewell Health Farmington Hills Hospital, Farmington Hills, MI
12/2015 – present	Medical Director, Hematology Corewell Health Farmington Hills Hospital, Farmington Hills, MI
7/2005 – 7/2015	Associate Medical Director, Cytopathology Stanford Health Care, Stanford Hospital, Palo Alto, CA

### PUBLICATIONS

#### Peer-Reviewed Articles

**E.J. Schwartz**, J. Goldberg, C. Clayberger, A.M. Krensky, and J.H. Griffin. "Structure-activity studies of CTL inhibitory peptides derived from HLA class I molecules." *Bioorg. Med. Chem. Lett.* 1997, 7: 37- 40.

S.E. Zinck, **E.J. Schwartz**, G.J. Berry, and A.N. Leung. "CT of noninfectious granulomatous lung disease." *Radiol. Clin. North Amer.* 2001, 39: 1189-1209. [Acquisition of review information; Critical revision of the manuscript for important intellectual content].

**E.J. Schwartz**, R.F. Dorfman, and S. Kohler. "Human herpesvirus-8 latent nuclear antigen-1 expression in endemic Kaposi's sarcoma: An Immunohistochemical Study of 16 Cases." *Am. J. Surg. Pathol.* 2003, 27(12):1546-1550.

**E.J. Schwartz** and T.A. Longacre. "Adenomatoid tumors of the female and male genital tract express WT1." *Int. J. Gynecol. Pathol.* 2004, 23(2):123-128.

T.T. Nguyen, **E.J. Schwartz**, R.B. West, R.A. Warnke, D.A. Arber, and Y. Natkunam. "Expression of CD163 (Hemoglobin Scavenger Receptor) in normal tissues, lymphomas, carcinomas and sarcomas is largely restricted to the Monocyte / Macrophage lineage." *Am. J. Surg. Pathol.* 2005, 29(5): 617-624. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

L. Pantanowitz, **E.J. Schwartz**, B.J. Dezube, S. Kohler, R.F. Dorfman, MD, and S.R. Tahan. "C-Kit expression in AIDS-related, classic & African endemic Kaposi's sarcoma." *App. Immunohistochem. Mol. Morphol.* 2005, 13(2): 162-166. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

M.L. Troxell, **E.J. Schwartz**, J.M. van de Rijn, R.A. Warnke, J.P. Higgins, and Y. Natkunam. "Follicular dendritic cell immunohistochemical markers in angioimmunoblastic T-cell lymphoma." *App. Immunohistochem. Mol. Morphol.* 2005,13(4): 297-303. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

K.K. Reichard, **E.J. Schwartz**, J.P. Higgins, R.A. Warnke, and Y. Natkunam. "CD10 expression in peripheral T-cell lymphomas complicated by a proliferation of large B cells." *Mod. Pathol.* 2006, 19(3): 337-343. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

**E.J. Schwartz**, H. Molina-Kirsch, S. Zhao, R.J. Marinelli, R.A. Warnke, and Y. Natkunam. "Immunohistochemical characterization of nasal-type extranodal NK/T-cell lymphoma using a tissue microarray: An analysis of 84 cases." *Am. J. Clin. Pathol.* 2008, 130(3): 343-351.

G.A. Fisher, T. Kuo, M. Ramsey, **E.J. Schwartz**, R.V. Rouse, C.D. Cho, J. Halsey, and B.I. Sikic. "A phase II study of gefitinib, 5-fluorouracil, leucovorin, and oxaliplatin in previously untreated patients with metastatic colorectal cancer." *Clin. Cancer Res.* 2008, 14(21): 7074-7079. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

A.R. Sangoi, J.K. McKenney, **E.J. Schwartz**, R.V. Rouse, and T.A Longacre. "Adenomatoid tumors of the female and male genital tracts: a clinicopathological and immunohistochemical study of 44 cases." *Mod. Pathol.* 2009, 22(9): 1228-35. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

R. Sachdev, J. Robbins, S. Kohler, V. Vanchinathan, **E.J. Schwartz**, U.N. Sundram. "CD163 expression is present in cutaneous histiocytomas but not in atypical fibroxanthomas." *Am. J. Clin. Pathol.* 2010, 133(6): 915-921. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

A.F. Setiadi, N.C. Ray, H.E. Kohrt, A. Kapelner, V. Carcamo-Cavazos, E.B. Levic, S. Yadegarynia, C.M. van der Loos, **E.J. Schwartz**, S. Holmes, P.P. Lee. "Quantitative, architectural analysis of immune cell subsets in tumor-draining lymph nodes from breast cancer patients and healthy lymph nodes." *PLoS One* 2010, 5(8): e12420. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

G.Y. Chang, H.E. Kohrt, T.B. Stuge, **E.J. Schwartz**, J.S. Weber, P.P. Lee. "Cytotoxic T lymphocyte responses against melanocytes and melanoma." *J. Transl. Med.* 2011; 9(1):122. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

C. Levin, N. Mirzamani, J. Zwerner, Y. Kim, **E.J. Schwartz**, U. Sundram. "A Comparative Analysis of Cutaneous Marginal Zone Lymphoma and Cutaneous Chronic Lymphocytic Leukemia." *Am. J. Dermatopathol.* 2012; 34(1), 18-23. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

M. Das, J.W. Riess, P. Frankel, **E. Schwartz**, R. Bennis, H.B. Hsieh, X Liu, J.C. Ly, L. Zhou, J.J. Nieva, H.A. Wakelee, R.H. Bruce. "ERCC1 expression in circulating tumor cells (CTCs) using a novel detection platform correlates with progression-free survival (PFS) in patients with metastatic non-small-cell lung cancer (NSCLC) receiving platinum chemotherapy." *Lung Cancer* 2012, May 1. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

H. Yu, D.L. Simons, I. Segall, V. Carcamo-Cavazos, **E.J. Schwartz**, N. Yan, N.S. Zuckerman, F.M. Dirbas, D.L. Johnson, S.P. Holmes, P.P. Lee. "PRC2/EED-EZH2 complex is up-regulated in breast cancer lymph node metastasis compared to primary tumor and correlates with tumor proliferation in situ." *PLoS One.* 2012;7(12): e51239. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

R. Sachdev, T.I. George, **E.J. Schwartz**, U.N. Sundram. "Discordant immunophenotypic profiles of adhesion molecules and cytokines in acute myeloid leukemia involving bone marrow and skin." *Am. J. Clin. Pathol.* 2012;138(2):290-9. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

N.S. Zuckerman, H. Yu, D.L. Simons, N. Bhattacharya, V. Carcamo-Cavazos, N. Yan, F.M. Dirbas, D.L. Johnson, **E.J. Schwartz**, P.P. Lee. "Altered local and systemic immune profiles underlie lymph node metastasis in breast cancer patient." *Int J Cancer.* 2013; 132 (11):2537-47. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

T.L. Tello, Y.H. Zeidan, K. Bush, **E. Schwartz**, P. Kunz, D.T. Chang. "Penile metastases originating from a pancreatic primary tumor: a case report." *J. Radiat. Oncol.* 2013; 2(1):107-112. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

S. Vinayak, **E.J. Schwartz**, K. Jensen, J. Lipson, E. Alli, L. McPherson, A.M. Fernandez, V.B. Sharma, A. Staton, M.A. Mills, E.A. Schackmann, M.L. Telli, A. Kardashian, J.M. Ford, A.W. Kurian. "A clinical trial of lovastatin for modification of biomarkers associated with breast cancer risk." *Breast Cancer Res Treat.* 2013;142(2):389-98. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

A.Y. Chang, N. Bhattacharya, J. Mu, A.F. Setiadi, V. Carcamo-Cavazos, G.H. Lee, D.L. Simons, S. Yadegarynia, K. Hemati, A. Kapelner, Z. Ming, D.N. Krag, **E.J. Schwartz**, D.Z. Chen, P.P. Lee. "Spatial organization of dendritic cells within tumor draining lymph nodes impacts clinical outcome in breast cancer patients." *J Transl Med.* 2013; 11:242. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

A.K. Nugent, Y.M. Paulus, A. Chan, J.W. Kim, **E.J. Schwartz**, D.M. Moshfeghi. "Multiple myeloma recurrence with optic nerve infiltration diagnosed by vitrectomy, immunohistochemistry, and in situ hybridization." *Eur J Ophthalmol.* 2014; 24(3):446-8. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

C.M. Earhart, C.E. Hughes, R.S. Gaster, C.C. Ooi, R.J. Wilson, L.Y. Zhou, E.W. Humke, L. Xu, D.J. Wong, S.B. Willingham, **E.J. Schwartz**, I.L. Weissman, S.S. Jeffrey, J.W. Neal, R. Rohatgi, H.A. Wakelee, S.X. Wang. "Isolation and mutational analysis of circulating tumor cells from lung cancer patients with magnetic sifters and biochips." *Lab Chip.* 2014;14(1):78-88. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

V. Vanchinathan, N. Mizramani, R. Kantipudi, **E.J. Schwartz**, U.N. Sundram. "The vascular marker CD31 also highlights histiocytes and histiocyte-like cells within cutaneous tumors." *Am J Clin Pathol*. 2015;143(2):177-85. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

S.K. Padda, J.W. Riess, **E.J. Schwartz**, L. Tian, H.E. Kohrt, J.W. Neal, R.B. West, H.A. Wakelee. "Diffuse high intensity PD-L1 staining in thymic epithelial tumors." *J Thorac Oncol*. 2015;10(3):500-8. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

S.K. Padda, J.B. Shrager, J.W. Riess, J.Y. Pagtama, A.J. Holmes Tisch, B.Y. Kwong, Y. Liang, **E.J. Schwartz**, B.W. Loo, J.W. Neal, R. Hardy, H.A. Wakelee. "Pruritus as a Paraneoplastic Symptom of Thymoma." *J Thorac Oncol*. 2015;10(11):110-2. [Acquisition of pathologic data; Critical revision of the manuscript for important intellectual content].

S. Park, D.J. Wong, C.C. Ooi, D.M. Kurtz, O. Vermesh, A. Aalipour, S. Suh, K.L. Pian, J.J. Chabon, S.H. Lee, M. Jamali, C. Say, J.N. Carter, L.P. Lee, W.G. Kuschner, **E.J. Schwartz**, J.B. Shrager, J.W. Neal, H.A. Wakelee, M. Diehn, V.S. Nair, S.X. Wang, S.S. Gambhir. "Molecular profiling of single circulating tumor cells from lung cancer patients." *Proc. Natl. Acad. Sci. USA* 2016; 113: E8379–E8386. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the manuscript for important intellectual content].

G.Z. White, E.L. Cox, **E.J. Schwartz**, S.A. Korkigian. "Rare solitary fibrous tumor in the pediatric neck: A case report and review of the literature." *Cureus* 2017; 9(4): e1140 [Acquisition of pathologic data].  
S.K. Padda, D. Terrone, L. Tian, A. Khuong, J.W. Neal, J.W. Riess, M.F. Berry, C.D. Hoang, B.M. Burt, A.N. Leung, **E.J. Schwartz**, J.B. Shrager, H.A. Wakelee. "Computed tomography features associated with the eighth edition TNM stage classification for thymic epithelial tumors." *J Thorac Imaging* 2017; Dec 6 [Acquisition of pathologic data; Critical revision of the manuscript for important intellectual content].

K.R.M. Blenman, TF. He, P.H. Frankel, N.H. Ruel, **E.J. Schwartz**, D.N. Krag, L.K. Tan, J.H. Yim, J.E. Mortimer, Y. Yuan, P.P. Lee. "Sentinel lymph node B cells can predict disease-free survival in breast cancer patients." *npj Breast Cancer* 2018 volume 4, Article number: 28 [Acquisition of pathologic data].

## ABSTRACTS AND POSTER PRESENTATIONS

**E.J. Schwartz**, Y. Natkunam, R.A. Warnke, and D.A. Arber. "MUM1 expression in T-cell lymphomas: An immunohistochemical study of 80 cases." 93<sup>rd</sup> Annual Meeting of the United States and Canadian Academy of Pathology, Vancouver, British Columbia, Canada, March 2004.

K. Reichard, **E.J. Schwartz**, J. Higgins, R.A. Warnke, and Y. Natkunam. "CD10 expression in peripheral T-cell lymphomas complicated by a proliferation of large B-cells." 93<sup>rd</sup> Annual Meeting of the United States and Canadian Academy of Pathology, Vancouver, British Columbia, Canada, March 2004. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the abstract and presentation for important intellectual content].

T.T. Nguyen, **E.J. Schwartz**, R.B. West, R.A. Warnke, D.A. Arber, and Y. Natkunam. "Expression of CD163 in normal tissues, lymphomas, carcinomas and sarcomas is limited to a few select neoplasms." 93<sup>rd</sup> Annual Meeting of the United States and Canadian Academy of Pathology, Vancouver, British Columbia, Canada, March 2004. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the abstract and presentation for important intellectual content].

Heerema, **E.J. Schwartz**, and R.A. Warnke. "HHV-8 Immunohistochemical reactivity in HIV-lymphadenopathy with and without Castleman disease-like features." 93<sup>rd</sup> Annual Meeting of the United States and Canadian Academy of Pathology, Vancouver, British Columbia, Canada, March 2004. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the abstract and presentation for important intellectual content].

L. Pantanowitz, S.R. Tahan, G. Buble, N.J. Upalakalin, **E.J. Schwartz**, S. Kohler, M. Demierre, T.P. Cooley, and B. J. Dezube. "Study of sex-hormone receptor expression in Kaposi's sarcoma." 8<sup>th</sup> International conference on malignancies in AIDS and other immunodeficiencies, Bethesda, MD, April 2004. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the abstract and presentation for important intellectual content].

C.D. Cho, G.A. Fisher, J. Halsey, C.N. Jambalos, **E.J. Schwartz**, R.V. Rouse, R.H. Advani, H.A. Wakelee, B.L. Lum, and B.I. Sikic. "A phase II study of Gefitinib in combination with FOLFOX-4 (IFOX) in patients with unresectable or metastatic colorectal cancer." 40<sup>th</sup> Annual Meeting of the American Society of Clinical Oncology, New Orleans, LA, June 2004. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the abstract and presentation for important intellectual content].

A.W. Kurian, V.B. Sharma, **E.J. Schwartz**, M.A. Mills, A.D. Staton, N.M. Chun, K.E. Kingham, and J.M. Ford. "A phase II breast cancer chemoprevention study of lovastatin in high-risk women: initial feasibility data." ASCO 43<sup>rd</sup> Annual Meeting Chicago, IL, June 2007. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the abstract and presentation for important intellectual content].

H.E. Kohrt, A.F. Setiadi, E.B. Levic, A. Kapelner, R. Angeles, D. Winer, S. Holmes, C.M. van der Loos, **E.J. Schwartz**, and P.P. Lee. "Dendritic and T-cell dysregulation in tumor-draining lymph nodes predict breast cancer recurrence." DOD Breast Cancer Research Program 5th Era of Hope Meeting Baltimore, MD, June 2008. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the abstract and presentation for important intellectual content].

R. Critchley-Thorne, D.L. Simons, N. Yan, S. Holmes, R.W. Carlson, **E.J. Schwartz**, D.L. Johnson, F.M. Dirbas, and P.P. Lee. "Impairment of interferon response in immune cells of breast cancer patients." DOD Breast Cancer Research Program 5th Era of Hope Meeting Baltimore, MD, June 2008. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the abstract and presentation for important intellectual content].

H. Yu, D.L. Simons, N. Yan, S. Holmes, R.W. Carlson, **E.J. Schwartz**, D.L. Johnson, F.M. Dirbas, and P.P. Lee. "Understanding tumor-immune cell interactions at the systems level using gene expression profiling." DOD Breast Cancer Research Program 5th Era of Hope Meeting Baltimore, MD, June 2008. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the abstract and presentation for important intellectual content].

S.K. Padda, J. Riess, **E.J. Schwartz**, L. Tian, H.E. Kohrt, J.W. Neal, Y. Natkunam, R.B. West, H.A. Wakelee. "Programmed death receptor ligand-1 (PD-L1) expression in a thymoma (T) tissue microarray (TMA)." ASCO 50<sup>th</sup> Annual Meeting Chicago, IL, May 2014. [Acquisition of pathologic data; Analysis and interpretation of data; Critical revision of the abstract and presentation for important intellectual content].

## INVITED PRESENTATIONS

**E.J. Schwartz**, D.A. Arber, and R.A. Warnke. "B cell lymphoma arising in a 14-year-old girl with common variable immunodeficiency." Society for Hematopathology and European Society for Haematopathology 2003 Workshop, Memphis, TN, October 2003 (Oral Presentation).

**E.J. Schwartz**, H. Molina-Kirsch, S. Zhao, R.A. Warnke, and Y. Natkunam. "Immunohistochemical characterization of nasal type extranodal NK/T cell lymphoma and related entities using a tissue microarray: An analysis of 96 cases." 93<sup>rd</sup> Annual Meeting of the United States and Canadian Academy of Pathology, Vancouver, British Columbia, Canada, March 2004 (Oral Presentation).

### **Invited Speaking Engagements**

Invited Faculty Speaker, "Fluid Cytology." Ninth Annual Current Issues in Anatomic Pathology Cytology Workshop, San Francisco, CA, May 2006.

Invited Faculty Speaker, "Fluid Cytology." Tenth Annual Current Issues in Anatomic Pathology Cytology Workshop, San Francisco, CA, May 2007.

Invited Faculty Speaker, "Urine Cytology." California Association of Cytotechnologists 42<sup>nd</sup> Annual Seminar San Francisco, CA, June 2007.

Invited Faculty Speaker, "Fine Needle Aspiration of Lymph Nodes." California Association of Cytotechnologists 42<sup>nd</sup> Annual Seminar San Francisco, CA, June 2007.

Invited Faculty Speaker, "Body Fluid Cytology." Teleconference Network of Texas Continuing Education Cytology, July 2007.

Invited Faculty Speaker, "Urinary Tract Cytology." Kaiser Permanente Department of Pathology Walnut Creek, CA, February 2008.

Invited Faculty Speaker, "Fluid Cytology." Eleventh Annual Current Issues in Anatomic Pathology Cytology Workshop, San Francisco, CA, May 2008.

Invited Faculty Speaker, "Urinary Tract and Kidney Cytology." Teleconference Network of Texas Continuing Education Cytology, June 2008.

Invited Faculty Speaker, "Fine Needle Aspiration of Lymph Nodes." Teleconference Network of Texas Continuing Education Cytology, July 2009.

Invited Faculty Speaker, "Pitfalls in Lymph Node Cytology." Thirteenth Annual Current Issues in Anatomic Pathology Cytology Workshop, San Francisco, CA, June 2010.

Invited Faculty Speaker, "Urine Cytology." Teleconference Network of Texas Continuing Education Cytology, July 2010.

Invited Faculty Speaker, "Urine Cytology." Teleconference Network of Texas Continuing Education Cytology, January 2012.

Invited Faculty Speaker, "Urine and Kidney Cytology." Northern California Kaiser webinar series, June 2014.