

Alan Edwin Siroy, MD, MPH

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(Updated: 5/8/2019)

CURRENT EMPLOYMENT & ACADEMIC APPOINTMENT

Attending Staff Pathologist

- August 2017 – Present
- Dermatopathology, surgical pathology, and quantitative molecular pathology
- University of Florida Health Pathology Laboratories, Gainesville, FL

Medical Director

- January 2018 - Present
- Quantitative Molecular Pathology Laboratory
- University of Florida Health Pathology Laboratories, Gainesville, FL

Clinical Assistant Professor

- August 2017 - Present
- Department of Pathology, Immunology, and Laboratory Medicine
- University of Florida College of Medicine, Gainesville, FL

POST-DOCTORAL TRAINING

Fellow

- July 2013 – June 2017
- Multidisciplinary Subspecialty Pathology Training Program
- The University of Texas – MD Anderson Cancer Center, Houston, TX

Year 1-2: NIH (T32 Grant) Post-doctoral Fellow – Molecular Melanoma Diagnostics

Year 3: Dermatopathology Fellow

Year 4: Molecular Genetic Pathology Fellow

Mentors: Alexander J. Lazar, MD, PhD – Molecular Melanoma Diagnostics
Victor G. Prieto, MD, PhD – Clinical Dermatopathology

Fellow

- July 2012 – June 2013
- Surgical Pathology
- Mayo Clinic, Rochester, MN

Resident

- January 2008 – June 2012
- Anatomic and Clinical Pathology
- University Hospitals Case Medical Center - Case Western Reserve University School of Medicine, Cleveland, OH

Intern

- June 2007 – October 2007
- Anesthesiology and Critical Care
- Barnes-Jewish Hospital - Washington University School of Medicine, St. Louis, MO

EDUCATION

Doctor of Medicine, Southern Illinois University School of Medicine, Springfield, IL
(May 2007)

Master of Public Health (Concentration: *Bioethics and Health Law*), Boston University
School of Public Health, Boston, MA
(September 2003)

Bachelor of Science (Majors: *Biology; Theology*), Cum Laude, Boston College,
Chestnut Hill, MA
(May 2000)

MEDICAL LICENSURE

Florida Board of Medicine (Full medical license: 05/2017 – Present)

Minnesota Board of Medical Practice (Full medical license: 2012 – 2017)

CERTIFICATIONS

Anatomic Pathology (Board-certified: 2015 – Present)

Dermatopathology (Board-certified: 2017 – Present)

Molecular Genetic Pathology (Board-eligible: 2017 – Present)

HONORS/AWARDS

Research Grant, \$10,000. Department of Pathology Steering Committee Grant. “Improving calling algorithms for clinical next-generation sequencing to detect copy number variations in the diagnosis of melanocytic lesions” The University of Texas – MD Anderson Cancer Center, March 27, 2017, Houston, TX

Dermatopathology Trainee World Cup Presenter. Comparison of B-raf protein expression and BRAF V600E gene mutation in metastatic melanoma.

15th Joint Meeting. The International Society of Dermatopathology, March 14-15, 2012, San Diego, CA

Physician-in-Training Best Resident/Fellow Abstract Poster. PTEN loss in metastatic melanoma involving lymph nodes. 48th Annual Meeting. The American Society of Dermatopathology, October 20-23, 2011, Seattle, WA

1st place presentation. Pigmented epithelioid melanocytoma: an unusual low-grade variant of melanoma. 18th Annual Donald Senhauser Resident Competition. The Ohio Society of Pathologists, May 7, 2011, Dublin, OH

Subspecialty Grant, \$1000. American Society for Clinical Pathology. Molecular dermatopathology - melanoma biomarkers. The University of Texas - M.D. Anderson Cancer Center, April 25 - May 6, 2011, Houston, TX

Research Grant, \$4000. University Hospitals Department of Pathology. Comparison of B-Raf protein expression and BRAF V600E gene mutation in metastatic melanoma. University Hospitals Case Medical Center, Cleveland, OH, 2010-2011

1st place presentation. MUC1 expression in early-stage triple negative breast cancer. 17th Annual Resident Research Competition. The Cleveland Society of Pathologists, May 19, 2010, Cleveland, OH.

PEER-REVIEWED PUBLICATIONS

Kimball D, **Siroy AE**, Tuna IS, Boyce BJ, Albayram MS. Novel diagnostic imaging features of facial lupus panniculitis: ultrasound, CT, and MR imaging with histopathology correlate. *Clinical Imaging*. 2019 [In submission]

Mauzo S, Tetzlaff M, Milton D, **Siroy AE**, Nagarajan P, Torres-Cabala C, Ivan D, Curry J, Hudgens C, Wargo J, Sahin A, Pettaway C, Prieto V, Aung P. Expression of PD-1 and PD-L1 in extramammary Paget disease. *Cancers*. 2019 [In submission]

Asirvatham JR, **Siroy AE**, Auerbach J, Hernandez-Gonzalo D. Intravascular nevus cell aggregate in axillary lymph node mimicking metastatic breast carcinoma. *The Breast Journal*. 2019 [Accepted]

Bejjanki H, **Siroy AE**, Koratala A. Reactive perforating collagenosis in end stage renal disease: Not all that itches is uremic pruritis. *Am J Med*. 2019 Apr 3 [Epub ahead of print]

McKean M, Oba J, Ma J, Roth KG, Wang WL, Macedo MP, Carapeto FCL, Haydu LE, **Siroy AE**, Vo P, Hong DS, Eterovic AK, Patel KP, Bassett RL Jr, Grimm EA, Lazar AJ, Woodman SE. Tyrosine Kinase Inhibitor and Immune Checkpoint Inhibitor Responses in KIT-Mutant Metastatic Melanoma. *J Invest Dermatol*. 2019 Mar;139(3):728-731.

Isom JA, **Siroy AE**, Auerbach J, and Rodić N. An Integrated Approach to Prognostic Biomarker Discovery in Malignant Melanomas. (Abstract). *Modern Pathology*. Volume 31; Supp. 2; March 2018.

Siroy A, Aung P, Torres-Cabala C, Tetzlaff MT, Nagarajan P, Milton D, Curry JL, Ivan D, Prieto VG. Clinical significance of *BRAF* V600E mutational status in capsular nevi of sentinel lymph nodes in patients with cutaneous melanoma. *Hum Pathol*. 2017 Jan;59:48-54.

Kim DW, Haydu L, Joon A, Bassett R, **Siroy A** et al. Clinicopathological features and clinical outcomes associated with TP53 and *BRAF* Non-V600 mutations in cutaneous melanoma patients. *Cancer*. 2017 Apr 15;123(8):1372-1381.

Roszik J, Haydu LE, Hess KR, Oba J, Joon AY, **Siroy A** et al. Novel algorithmic approach predicts tumor mutation load and correlates with immunotherapy clinical outcomes using a defined gene mutation set. *BMC Med*. 2016 Oct 25;14(1):168.

Sholl LM, Andea A, Bridge J, Cheng L, Davies MA, Ehteshami M, Gangadhar T, Kamel-Reid S, Lazar A, Raparia K, **Siroy A**, Watson K. Template for reporting results of biomarker testing of specimens from patients with melanoma. College of American Pathologists. *Arch Pathol Lab Med*. 2016 Apr;140(4):355-7

Roszik J, Wu CJ, **Siroy A**, Lazar AJ, Davies MA, Woodman SE, Kwong LN. Somatic copy number alterations at oncogenic loci show diverse correlations with gene expression. *Sci Rep*. 2016 Jan 20; 6:19649.

Stockman DL, Curry JL, Watson IR, **Siroy A**, et al. Clinical next generation sequencing (NGS) identifies a subset of melanomas harboring *SMARCB1* mutations. *J Cutan Pathol*. 2015 May;42(5):308-17.

Siroy A, Lazar AJ, Davies MA, et al. Beyond *BRAF* V600: clinical mutation panel testing by next-generation sequencing in advanced melanoma. *J Invest Dermatol*. 2015 Feb;135(2):508-15.

Buchheit AB, Chen G, **Siroy A**, et al. Complete loss of PTEN protein expression correlates with shorter time to brain metastasis and survival in stage IIIB/C melanoma patients with *BRAF* V600 mutations. *Clin Cancer Res*. Clin Cancer Res. 2014 Nov 1;20(21):5527-36.

Siroy A, Gilmore H, Miedler J, Wang N, Abdul-Karim F, Baar J. MUC1 is expressed at high frequency in early-stage basal-like triple negative breast cancer. *Hum Pathol*. 2013 Oct;44(10):2159-66

Al-Jamal Y, **Siroy A**, Farley D. A novel approach: chest wall cyst excised by MIS. *J Surg Case Rep*. Sep 2013; 2013(9): rjt085.

Siroy A. Slow Mohs micrographic surgery and the role of the pathologist. *NewsPath* online, College of American Pathologists. August 2013

Siroy A, Wasman J. Metastatic Crohn's disease: a rare cutaneous entity. *Arch Pathol Lab Med*. 2012 Mar;136(3):329-32.

Siroy A, MacLennan G. Primary melanoma of the bladder. *J Urol*. 2011 Mar;185(3):1096-7.

Siroy A. Extracorporeal photopheresis in the treatment of cutaneous T-cell lymphoma. *NewsPath* online, College of American Pathologists. March 2011

Siroy A. Pemphigus vulgaris and bullous pemphigoid: laboratory testing and diagnosis. *NewsPath* online, College of American Pathologists. August 2009

DeWitt C, **Siroy A.** Stone S. Acneiform eruptions associated with epidermal growth factor receptor-targeted chemotherapy. *J Am Acad Dermatol.* 2007 Mar;56(3):500-5

BOOK CHAPTER

Siroy A. Davies MA, Lazar AJ. (2016) The PI3K-AKT pathway in melanoma. In Torres-Cabala C, Curry J (Eds), *Genetics of Melanoma*. New York, NY: Springer Science Business Media.

OTHER PUBLICATIONS

Siroy A. Davies MA, Lazar AJ. 2014 Pharmacogenomics Applied Program: Pharmacogenomic Testing in Melanoma Case Study © 2014 College of American Pathologists Online CME Self Assessment Module (Released June, 2014)

ABSTRACTS & PRESENTATIONS (NATIONAL and REGIONAL)

Siroy, AE. Melanocytic lesions and inflammatory dermatopathology. Slide session and presentation. 45th Annual Anatomic Pathology Conference. Florida Society of Pathologists. February 22-24, 2019.

Ross JA, Knapik J, Mukhtar F, Drew P, Weeden E, DeHaan P, **Siroy AE,** Leon ME. Utility of UroVysion fluorescence in situ hybridization (FISH) for urine cytology specimens with rare atypical cells. 108th Annual Meeting. The United States and Canadian Academy of Pathology, March 16-21, 2019, National Harbor Maryland.

Braswell DS, Isom JA, **Siroy AE,** Auerbach J, Motaparathi K. Differentiation between acute generalized exanthematous pustulosis and pustular psoriasis. 55th Annual Meeting. The American Society of Dermatopathology, November 8-11, 2018, Chicago, IL.

Isom JA, **Siroy AE,** Auerbach J, and Rodić N. An integrated approach to prognostic biomarker discovery in malignant melanomas. 107th Annual Meeting. The United States and Canadian Academy of Pathology, March 17-23, 2018, Vancouver, British Columbia, Canada.

Siroy A, Sui D, Ning J, Luthra R, Patel K, et al. An assessment of copy number variations and somatic mutations in advanced melanomas by clinical next-generation sequencing. 106th Annual Meeting. The United States and Canadian Academy of Pathology, March 4-10, 2017, San Antonio, TX

Siroy A, Prieto V, Aung P, et al. Clinical significance of *BRAF* V600E mutational status in capsular nevi of sentinel lymph nodes in patients with cutaneous melanoma. 105th Annual Meeting. The United States and Canadian Academy of Pathology, March 12-18, 2016, Seattle, WA

Roth K, **Siroy A**, Tetzlaff M, Woodman S, et al. Mutation and clinical analysis of a large cohort of acral and mucosal melanomas. 12th International Congress. Society for Melanoma Research, November 18-21, 2015, San Francisco, CA

Siroy A, Tetzlaff M, Davies M, Lazar A. Histologic and molecular characterization of melanomas with focal PTEN loss. 52nd Annual Meeting. The American Society of Dermatopathology, October 8-11, 2015, San Francisco, CA

Siroy A, Davies M, Lazar A. et al. Clinical next-generation sequencing reveals divergent mutational patterns in *BRAF* V600, *BRAF* non-V600, and *NRAS* mutations in advanced melanoma. 103rd Annual Meeting. The United States and Canadian Academy of Pathology, March 1-7, 2014, San Diego, CA

Siroy A, Lazar A, Davies M. et al. Clinical next-generation sequencing in advanced melanoma: the MD Anderson experience. Symposium on Cancer Research 2013 – Genomic Medicine. The University of Texas – MD Anderson Cancer Center. October 4-5, 2013, Houston, TX

Siroy A, Gilmore H, Baar J et al. MUC1 is expressed at high frequency in early-stage basal-like triple negative breast cancer. 102nd Annual Meeting. The United States and Canadian Academy of Pathology, March 2-8, 2013, Baltimore, MD

Siroy A, Li Q, Zhou L, Xin W. Comparison of B-raf protein expression and *BRAF* V600E gene mutation in metastatic melanoma. 15th Joint Meeting. The International Society of Dermatopathology, March 14-15, 2012, San Diego, CA

Siroy A, Davies M, Lazar A. PTEN loss in metastatic melanoma involving lymph nodes. 48th Annual Meeting. The American Society of Dermatopathology, October 20-23, 2011, Seattle, WA

Siroy A, Xin W, Wang WL, Lazar A. Pigmented epithelioid melanocytoma: an unusual low-grade variant of melanoma. The 18th Annual Donald Senhauser Resident Competition. The Ohio Society of Pathologists, May 7, 2011, Dublin, OH

Siroy A, Miedler J, Wang N, Abdul-Karim F, Baar J. MUC1 expression in early-stage triple negative breast cancer. 17th Annual Resident Research Competition. Cleveland Society of Pathologists, May 19, 2010, Cleveland, OH

INTRA-INSTITUTIONAL PRESENTATIONS

“Arthritis – A brief survey of the most common arthritides, including clinical presentation and underlying pathophysiology.” Dental pathology course (DEN 6350). University of Florida College of Dentistry, June 4th, 2019 (Pending)

“Introduction to inflammatory dermatopathology: pattern recognition.” Resident pathology lecture series. University of Florida Department of Pathology. February 5-7, 2019

“Introduction to melanocytic lesions.” Resident pathology lecture series. University of Florida Department of Pathology. February 27, 2019.

“Arthritis – A brief survey of the most common arthritides, including clinical presentation and underlying pathophysiology.” Dental pathology course (DEN 6350). University of Florida College of Dentistry, June 5th, 2018

“Squamous cell carcinoma, basal cell carcinoma, and their common mimics.” Resident pathology slide session. University of Florida Department of Pathology. Jan. 8th, 2018.

“Familial Atypical Multiple Mole Melanoma (FAMMM) syndrome: Perspectives from Dermatopathology and Molecular Pathology.” Grand Rounds. Division of Medical Genetics, Department of Pediatrics, University of Texas Health – McGovern Medical School, Houston, TX, February 3, 2017

“Basaloid neoplasms: a practical approach to diagnosis.” Subspecialty Fellow’s Conference. Department of Pathology and Laboratory Medicine, The University of Texas – MD Anderson Cancer Center, Houston, TX, June 1, 2016

“The molecular heterogeneity of melanoma.” NIH T32 Advisory Committee – Annual Report. Department of Pathology and Laboratory Medicine, The University of Texas – MD Anderson Cancer Center, Houston, TX, January 30, 2014

“A case of pilotropic mycosis fungoides presenting predominantly as cysts and comedones.” Clinical Pathologic Correlation Conference. Department of Dermatology, Mayo Clinic, Rochester, MN, June 24, 2013

“Differentiating intranodal melanocytic nevi from melanoma metastasis in lymph nodes on frozen section and subsequent permanent review.” Frozen Section Working Group Conference. Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN, October 29, 2012.

“A case of esthesioneuroblastoma for intraoperative consultation.” Interesting Case Conference. Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN, August 30, 2012

“A case of Spitz nevus.” Clinical Pathologic Correlation Conference. Department of Dermatology, Mayo Clinic, Rochester, MN, July 23, 2013

“BRAF and PTEN expression in metastatic melanoma: implications for molecular-targeted therapy.” Grand Rounds. Department of Pathology, University Hospitals Case Medical Center, Cleveland, OH, January 11, 2012.

“Fluorescence in situ hybridization (FISH) and its prognostic significance in metastatic melanoma.” Clinical Pathology Laboratory Rounds. Department of Pathology, University Hospitals Case Medical Center, Cleveland, OH, Nov. 1, 2011.

“Dermatologic conditions and medications resulting in QNS sweat chloride test samples for cystic fibrosis.” Core Laboratory CME conference. Department of Pathology, University Hospitals Case Medical Center, Cleveland, OH, August 25, 2011.

“Introduction to real-time PCR methodology: identification of *BRAF* V600E mutation in melanoma as a model.” Clinical Pathology Laboratory Rounds. Department

of Pathology, University Hospitals Case Medical Center, Cleveland, OH, August 2, 2011.

“Molecular-targeted therapy in metastatic melanoma: *BRAF* gene mutation and its future treatment implications.” Molecular Diagnostics and Cytogenetics Laboratory conference. Department of Pathology, University Hospitals Case Medical Center, Cleveland, OH, April 20, 2010.

“Metastatic Crohn’s disease: a rare cutaneous manifestation of Crohn’s disease.” Grand Rounds. Department of Pathology, University Hospitals Case Medical Center, Cleveland, OH, September 9, 2009.

LABORATORY INSPECTIONS

Molecular Anatomic Pathology Laboratory, Mayo Clinic, Rochester, MN; College of American Pathologists (CAP) Internal Inspector Team Member, 2013.

Molecular Diagnostics Laboratory, University Hospitals Case Medical Center, Cleveland, OH; College of American Pathologists (CAP) Internal Inspector Team Member, 2010.

Histocompatibility and Immunogenetics Laboratory, University Hospitals Case Medical Center, Cleveland, OH; American Society for Histocompatibility and Immunogenetics (ASHI) Internal Inspector Team Member, 2010.

PROFESSIONAL MEMBERSHIPS

American Society of Dermatopathology (2015-Present)

College of American Pathologists (2008 – Present)

Society for Melanoma Research (2011 – Present)

The International Society of Dermatopathology (2009 – Present)

United States and Canadian Academy of Pathology (2008 – Present)

American Society for Clinical Pathology (2008 – Present)

The Association of Philippine Physicians in America (2008 – Present)

ACADEMIC INTERESTS

dermatopathology, molecular diagnostics, translational melanoma research, surgical pathology

HOBBIES

Athletics: modern and hickory golf, tennis, swimming, snowboarding, weight-training

Music: guitar, piano, saxophone, country bluegrass, modern blues, positive alternative rock

Reading: philosophy, comparative theology, international languages and cultures