

Victoria Martucci

2120B W. Linden Ave.
Nashville, TN 37212

Cell: (203) 444-1447
torymartucci@gmail.com

EDUCATION

Vanderbilt University, Nashville, TN
MD/PhD degree candidate, 2014-present

Colgate University, Hamilton, NY
Bachelor of Arts Degree, 2010
Summa Cum Laude
Molecular biology major; GPA 3.80

RESEARCH EXPERIENCE

Vanderbilt University, Nashville, TN
Graduate research, August 2016-present
Conduct large-scale genomic analyses of electronic health records and cohort data to identify associations between genetic variants and complex pulmonary diseases, such as chronic obstructive pulmonary disease and lung cancer

Vanderbilt University, Nashville, TN
Summer research rotation, June 2014
Perform data analysis and quality control of genome data sets using Plink and Structure to evaluate the effect of genotype and NSAID use on pregnancy outcome

Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD
Post-baccalaureate IRTA Fellow, April 2011-December 2013
Analyze clinical data, maintain and coordinate patient schedules and databases, and participate in clinical research projects to assess the diagnostic tools, imaging modalities, genetics, treatment responses, and outcomes of patients with pheochromocytoma/paraganglioma

Colgate University Department of Biology, Hamilton, NY
Independent Study Research Tutorial, August 2009-May 2010
*Isolate the GATA factor gene from the marine polychaete *Streblospio benedicti* and perform in situ hybridization experiments to determine gene expression in developing larvae*

Colgate University Department of Biology, Hamilton, NY
Cell Biology Lab Student, August 2008 - December 2008
Study the movement of proteins within the endomembrane system by introducing genes fused to GFP through the use of lipoproteins

Children's Hospital of Philadelphia, Philadelphia, PA
Summer intern, Dr. Ron Rubenstein's Lab, June 2008 - August 2008
Apply techniques and skills such as cell culture, surface biotinylation, Western blotting, electroporation, and RNA silencing to the study of the effects of heat shock proteins on the trafficking of the CFTR protein in cells from normal and affected patients

Colgate University Department of Biology, Hamilton, NY
Biology 321 Lab Student, January 2008 - May 2008

Apply techniques such as RNA isolation, cDNA creation, RT-PCR, cloning, and DNA sequencing in order to determine polyadenylation sites in yeast genes

Colgate University Department of Biology, Hamilton, NY

Lab Assistant to Professor Damhnait McHugh, November 2006 - December 2008

Perform techniques such as DNA amplification through PCR, making recombinant molecules, cloning, and DNA sequencing on the myosin-II gene in a variety of species of marine worms in an attempt to construct the phylogeny of marine worms and determine the origins and development of segmentation in marine worms

Sacred Heart Academy, Hamden, CT

Honors Biotechnology Lab, September 2005 - May 2006

Developed a research project using PCR and DNA sequencing to determine previously unidentified sequences of the calcitonin receptor and vitamin D receptor genes in Bos taurus

PUBLICATIONS AND ABSTRACTS

Martucci VL, Emaminia A, del Rivero J, Lechan RM, Magoon BT, Galia A, Fojo T, Leung S, Lorusso R, Jimenez C, Shulkin BL, Audibert JL, Adams KT, Rosing DR, Vaidya A, Dluhy RG, Horvath KA, Pacak K (2015). Succinate dehydrogenase gene mutations in cardiac paragangliomas. *American Journal of Cardiology*, 115(12):1753-1759.

Martucci VL, Lorenzo ZG, Weintraub M, del Rivero J, Ling A, Merino M, Siddiqui M, Shuch B, Vourganti S, Linehan WM, Agarwal PK, Pacak K (2015). Association of urinary bladder paragangliomas with germline mutations in the SDHB and VHL genes. *Urologic Oncology*, 33(4):167.e13-20.

Sue M, **Martucci V**, Frey F, Lenders JM, Timmers HJ, Peczkowska M, Prejbisz A, Swantje B, Bornstein SR, Arlt W, Fassnacht M, Beuschlein F, Robledo M, Pacak K, Eisenhofer G (2015). Lack of utility of SDHB mutation testing in adrenergic metastatic pheochromocytoma. *European Journal of Endocrinology*, 172(2):89-95.

Schovanek J, **Martucci V**, Wesley R, Fojo T, del Rivero J, Huynh T, Adams K, Kebebew E, Frysak Z, Stratakis CA, Pacak K (2014). The size of the primary tumor and age at initial diagnosis are independent predictors of the metastatic behavior and survival of patients with SDHB-related pheochromocytoma and paraganglioma: a retrospective cohort study. *BMC Cancer*, 14:523.

Taieb D, Kaliski A, Boedeker CC, **Martucci V**, Fojo T, Adler JR, Pacak K (2014). Current approaches and recent developments in the management of head and neck paragangliomas. *Endocrine Reviews*, 35(5):795-819.

Vogel J, Atanacio AS, Prodanov T, Turkbey BI, Adams K, **Martucci V**, Camphausen K, Fojo AT, Pacak K, Kaushal A (2014). External beam radiation therapy in treatment of malignant pheochromocytoma and paraganglioma. *Frontiers in Oncology*, 4:166.

Martucci VL, Pacak K (2014). Pheochromocytoma and Paraganglioma: Diagnosis, Genetics, Management, and Treatment. *Current Problems in Cancer*, 38(1):7-41.

Moraitis A, **Martucci VL**, Pacak K (2014). Genetics, Diagnosis, and Management of Medullary Thyroid Carcinoma and Pheochromocytoma/Paraganglioma. *Endocrine Practice*, 20(2):176-187.

Blanchet EM, Gabriel S, **Martucci V**, Fakhry N, Chen CC, Deveze A, Millo C, Barlier A, Pertuit M, Loundou A, Pacak K, Taieb D (2014). ¹⁸F-FDG PET/CT As A Predictor of Hereditary Head and Neck Paragangliomas. *European Journal of Clinical Investigation*, 44(3):325-332.

Blanchet EM, Millo C, **Martucci V**, Maass-Moreno R, Bluemke DA, Pacak K (2014). Integrated Whole-Body PET/MRI With 18F-FDG, 18F-FDOPA, and 18F-FDA in Paragangliomas in Comparison With PET/CT: NIH First Clinical Experience With a Single-Injection, Dual-Modality Imaging Protocol. *Clinical Nuclear Medicine*, 39(3), 243-250.

Martucci V, Pacak K. "Pheochromocytoma." Oxford Desk Reference: Endocrinology. Oxford University Press, in press.

Ghayee HK, Giubellino A, Click A, Kapur P, Christie A, Xie XJ, **Martucci V**, Shay JW, Souza RF, Pacak K (2013). Phospho-mTOR is not upregulated in metastatic SDHB paragangliomas. *European Journal of Clinical Investigation*, 43(9), 970-977.

Blanchet EM, **Martucci V**, Millo C, Chen CC, Herscovitch P, Pacak K (2013). Multitracer PET imaging of bone metastases from paraganglioma: peripheral halo of uptake on (18) F-FLT PET mismatching with central uptake of (18) F-FDOPA, (18) F-fluorodopamine, and (18) F-FDG. *European Journal of Nuclear Medicine and Molecular Imaging*, 40(12), 1928-1929.

Eisenhofer G, Lattke P, Herberg M, Siegert G, Qin N, Därr R, Hoyer J, Villringer A, Prejbisz A., Januszewicz A, Remaley A, **Martucci V**, Pacak K, Ross HA, Sweep FCGJ, Lenders JW (2013). Reference intervals for plasma free metanephrines with an age adjustment for normetanephrine for optimized laboratory testing of pheochromocytoma. *Annals of Clinical Biochemistry*, 50(1), 62-69.

del Rivero J, **Martucci VL**, Adams KT, Pacak K. Biochemical Profiles of Patients with Succinate Dehydrogenase B Gene Mutatio-Related Adrenal Pheochromocytoma. Abstract presented at ENDO 2013.

Schovanek J, **Martucci VL**, Fojo T, Wesley R, del Rivero J, Huynh T, Adams KT, Frysak Z, Pacak K. The size of SDHB-related pheochromocytoma and paraganglioma as an independent predictor of metastatic behavior. Abstract presented at ENDO 2013.

Prodanov T, Martucci VL, Raygada M, Lodish MB, Adams KT, Stratakis CA, Fojo T, Pacak K. Genetic anticipation in SDHB-related pheochromocytomas and paragangliomas: Earlier onset of primary and metastatic tumors, worse prognosis and outcome in the first generation of index patients. Abstract presented at ENDO 2013.

Fonte JS, Robles JF, Chen CC, Reynolds J, Whatley M, Ling A, Mercado-Asis LB, Adams KT, **Martucci V**, Fojo T, Pacak K (2012). False-negative 123I-MIBG SPECT is most commonly found in SDHB-related pheochromocytoma or paraganglioma with high frequency to develop metastatic disease. *Endocrine-related cancer*, 19(1), 83-93.

Blanchet EM, **Martucci V**, Pacak K (2011). Pheochromocytoma and paraganglioma: current functional and future molecular imaging. *Frontiers in Oncology*, 1.

AWARDS AND HONORS

Phi Beta Kappa

Inducted May 15, 2010

Christopher Oberheim Memorial Award

May 2010; awarded to a student showing promise in scientific research

Beta Beta Beta Biology Honor Society

Inducted September 2009; honor society for high-performing students in biology

Goldwater Scholarship Honorable Mention

March 2009

Phi Eta Sigma, Colgate University, Hamilton, NY

Inducted September 2007; honor society based on outstanding academic performance during freshman year

Dean's List, Colgate University, Hamilton, NY

Fall Semester 2006-May 2010; awarded to students with GPA above 3.5

Alumni Memorial Scholar, Colgate University, Hamilton, NY

March 2006; awarded annually to the top 200 applicants to Colgate University

LEADERSHIP EXPERIENCE

Vanderbilt Medical Scientist Training Program Student Advisory Committee

Class representative, August 2016-present

Vanderbilt Medical Scientist Training Program Wellness Committee

Co-founder, October 2016-present

Vanderbilt Medical Scientist Training Program College Advisory Board

College activity leader, July 2016-present

Vanderbilt Medical Scientist Training Program Seminar Committee

Student co-leader, June 2016-present

MENTORING EXPERIENCE

American Physician Scientists Association Undergraduate Mentoring

January 2017-present

Letters to a Pre-Scientist Mentoring for Elementary and Middle School Students

August 2014-present