

Maria V. Lane

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Objective

Passionate and diligent aspiring pre-medical student with laboratory cancer research experience seeking to broaden my research background through additional research opportunities.

Education

B.S., Biology, Cellular and Molecular concentration

Pace University, Pleasantville, NY

GPA: 3.8

May 2016

Research Experience

Laboratory of Dr. John M. Maris

Division of Oncology, Children's Hospital of Philadelphia

Research Technician

July 2016-Present

- There is an urgent need for the development of immune-based therapies for high-risk neuroblastoma, which has a poor prognosis in children. Our focus is on a differentially expressed cell surface oncoprotein in neuroblastoma and other pediatric cancers, glypican-2 (GPC2), as a possible immunotherapeutic target in addition to understanding its role in neuroblastoma tumor survival.

Laboratory of Dr. Nancy A. Krucher

Biology Department, Pace University

Research Assistant

May 2014-July 2016

- Focus is on the phosphorylation sites and regulation of the Retinoblastoma protein (Rb), a tumor suppressor protein found to be dysfunctional in most cancers. Knockdown of the protein phosphatase nuclear targeting subunit (PNUTS) is found to be important in the phosphorylation state of Rb thus contributing to apoptosis and invasion of cancerous cells.

President's & Provost's Student-Faculty Undergraduate Research Program

Pace University

September 2014-May 2015

- Academic yearlong research program with requirements consisting of periodically attending seminars, uploading online blog posts, and presenting all results in the end-of-year showcase.

Dyson College Summer Undergraduate Student-Faculty Research Program

May 2014-August 2014

Pace University

- Summer research opportunity with a faculty mentor consisting of hands-on research experience as well as a final report submission at the conclusion of the program.

Publications

Egger, JV, Lane, MV, Antonucci, LA, Dedi, B, and Krucher, NA, Dephosphorylation of the Retinoblastoma protein (Rb) inhibits cancer cell EMT via Zeb, *Cancer Biology and Therapy*, 0: 1-9 (2016)

Research Presentations

- Jacklynn Egger, Maria Lane, Brixhilda Dedi, and Nancy A Krucher, Activation of Phosphatase toward the Retinoblastoma protein inhibits invasion in MDA-MB-231 breast cancer cells. American Association for Cancer Research meeting abstract 1675 (April 2016)
- Jacklynn Egger, Maria Lane and Nancy A Krucher, The Mammosphere-Use of 3D Tumor Models to Study Breast Cancer. Science Day Presentation on behalf of the Biology Department (May 2015)

- Jacklynn Egger, Lisa Antonucci, Maria Lane and Nancy A Krucher, Activation of Phosphatase toward the Retinoblastoma protein in breast cancer cell spheroids. American Association for Cancer Research meeting abstract 4942 (April 2015)

Undergraduate Presentations

End-of-Year Residential Life Department Banquet

Residential Life and Housing Department-Pace University

May 2016

- Chosen as the advising and motivational “mystery speaker” for the end-of-year banquet held to recognize all of the Residence Life staff for their hard-work and dedication throughout the entire academic year.

Women’s Leadership Conference

Student Development and Campus Activities-Pace University

February 2016

- Daylong university conference focusing on educating, empowering, and inspiring others as well as teaching women to embrace how exceptional they are. Delivered a “PACETalk” titled “My Driving Force.”

Relevant Work History

Physician & Office Assistant

Dr. Steven Pappas, Eastchester, NY

July-August 2015, June 2016-July 2016

- Maintain front desk duties including scheduling patient appointments, uploading medical documents and patient information, and inputting insurance/patient billing. Assist physician with patient procedures including recording height and weight and electrocardiograms.

Laboratory Technician

Biology Department, Pace University

September 2012-May 2016

- Preparation of laboratory classes in the fields of General and Cellular Biology, Histology, Genetics, Microbiology, and Anatomy and Physiology. Managing all laboratory inventories which also includes updating the chemical and hazardous waste inventories. Biochemical testing and sub-culturing of the laboratory's bacterial library.

Honors and Awards

Outstanding Biology Department Award

May 2016

- Involved in recruitment and hiring process for potential Professor in Health Professions Department

Bronze Medal Jefferson Award for Outstanding Community Service

April 2015

Certificate of Appreciation for Highest Cumulative GPA in a Greek Council in Spring 2014

April 2015

Volunteer Work

St. Baldrick’s Foundation Event-Planner and Participator

2012-2014

Pace Makes A Difference Day-Participator and Site Leader

2013-2015

Pace for Kids Dance Marathon-Committee and General Member

2013-2015

Take Back the Night-Planner and Implementer

2015-2016

Relay for Life-Planner and Participator

2012-2016

List of Recommenders for Maria V. Lane

Kristopher Bosse, MD

Instructor/Attending Physician
The Children's Hospital of Philadelphia
Philadelphia, PA 19104
651-492-6726
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Nancy A. Krucher, PhD

Associate Professor for Biology and Health Sciences
Pleasantville, NY 10570
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Laura Cimini, MS

Director of Laboratory Safety and Security
Adjunct Assistant Professor
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