‍‍Andrea Soles

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Education

Bachelor of Science Biology | May 2019 | Longwood University | GPA- 3.503

Related Coursework

* Modern Genetics, Biology of Cancer, Organic Chemistry I & II, Microbiology, and Human Anatomy and Physiology I & II

Relevant Skills

* Laboratory
  + Cell Culture techniques, Dissection, MTT Proliferation Assay, Lactate dehydrogenase (LDH) Assay, Enzyme-linked immunosorbent assay (ELISA), Legend Plex, Flow Cytometry, Gel Electrophoresis, Polymerase chain reaction (PCR), Microscopy, Centrifugation techniques
* Computer
  + Microsoft Word, Excel, PowerPoint, and Linux

Research Experience

Research | Longwood University | January 2018-Present | Mentor: Dr. Amorette Barber

* Focuses on how a naturally occurring plant stilbene, Resveratrol, can enhance the anti-tumor efficacy of chimeric PD1-expressing T cells
* Awarded a student travel grant to attend the 2019 ASBMB (American Society for Biochemistry and Molecular Biology) conference in Orlando, Florida

Presentations

Enhancing the anti-tumor efficacy of chimeric antigen receptor-expressing T cells with naturally occurring plant stilbenes

* 2018 VAS (Virginia Academy of Science) Annual Meeting
* 2019 ASBMB Annual Meeting

Publications

* Barber A, Hodges H, Porter S, Richardson E, Rowland K, Soles A. The application of synthetic biology to analytical chemistry: The MicRoboCop project. *Journal of Visualized Experiments*, In Press.

Awards/Recognitions/Involvement

* Dean’s List: 2015-2018
* Beta Beta Beta Honor Society Member
* Alpha Chi Sigma Fraternity Member
* Volunteered with community outreach project with Prince Edward County High School by helping lead an environmental science class to conduct a multi-week water quality research project