ERIN GRUNDY

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Home Address
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Current Position

George Washington University August 2019-Present
- Graduate Student, Institute for Biomedical Sciences Washington, DC

Work Experience

Research Technician, Chodera Lab, Memorial Sloan Kettering Cancer Center June 2018 – July 2019
- Conducted high-throughput, automated wetlab experiments to investigate the interactions and determine the binding affinities of small molecules and their macromolecular targets

Education

- **Bucknell University** May 2018
  B.S. Cell Biology & Biochemistry, overall GPA 3.61 Lewisburg, PA
  Phi Sigma Honors Society • *cum laude* • *Alpha Sigma Chi Fraternity Prize*, awarded to the most deserving chemistry graduate chosen at the discretion of the chemistry department
  Course List: Analytical Chemistry, Biophysical Chemistry, Biochemistry, Molecular Biology, Cell Biology
- **University CEU San Pablo (study abroad)** Fall 2016
  Course List: Immunology Madrid, Spain
- **University Carlos III (study abroad)** Fall 2016
  Course List: Anatomy & Physiology, Biotechnology Madrid, Spain

Research Experience

"Generation of repetitive element-specific T cells to target ovarian cancer" May 2020-Present
- Laboratory rotation and dissertation research with Katherine Chiappinelli, PhD
- Research Summary: Assessing the ability of ERV-K-specific primary T cells to lyse several ovarian cancer cell lines and bioinformatic identification of novel tumor-associated antigens upregulated by epigenetic therapy.

"Investigating the role of the p53 signaling pathway in HIV-1 infectivity and latency" January-April 2020
- Laboratory rotation with Alberto Bosque-Pardos, PhD
- Research Summary: Analyzed changes in HIV-1 infectivity and latency in response to the therapeutic perturbation of the p53 signaling pathway in cell lines and primary cells.

"*Ex vivo* expanded antigen-specific T cells targeting brain tumors" September-December 2019
- Laboratory rotation with C. Russell Y. Cruz, MD, PhD
- Research Summary: Generated *ex vivo* antigen-specific T cells for the WT1 antigen and identified additional candidate target peptides for glioblastoma multiforme via utilization of the GEO and SYFPEITHI databases.

"Structural determination of the RFTS domain of DNMT1 using 2D and 3D Nuclear Magnetic Resonance" Summer 2017
- Bucknell Undergraduate Summer Research Fellowship, Advisor: Rebecca Fagan Switzer, PhD
- Research Summary: Optimized a unique protocol for growing and labeling the RFTS domain of DNMT1 for use in NMR structural determination experiments.
- Funding: Merck Chemistry Undergraduate Research Fund

"Probing regulatory protein-protein interactions using Isothermal Titration Calorimetry" Summer 2016
- Bucknell Program for Undergraduate Research Summer Fellowship, Advisor: Rebecca Fagan Switzer, PhD
- Research Summary: Developed a distinctive protocol for isothermal titration calorimetry of the maintenance methylation proteins DNMT1 and UHRF1.
- Presented poster at Sigma Xi Symposium (Bucknell University, July 2016)

Technical Skills

Automation Instruments:
- Tecan EVO- automated liquid handler
- LabChip- automated capillary electrophoresis
- Opentrons- open-source programming pipetting robot

Laboratory Techniques & Instruments:
- Mammalian cell culture
- Bacterial cell culture
- Lentiviral transduction
- DNA transfection
- Plasmid transformation
- Flow cytometry
- ELISpot assays
- Western blots
- SDS-PAGE gels
- EMSAs
- Visible & UV light spectrophotometer
- Column chromatography
- Differential scanning fluorimetry
- Differential light scattering
- RT-qPCR
- Protein purification
- FPLC
- HPLC
- ITC
- Gas chromatography
- CE

Programs:
- Python
- Prism
- FCS Express 7
- FlowJo
- R
- ImageJ