

CURRICULUM VITAE
EMILY E BROWN

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Dietrich School of Arts and Sciences, University of Pittsburgh
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CURRENT POSITION

2020 – present **Research Specialist II**
Advisor: Dr. Sarah Hainer. Department of Biological Sciences, University of Pittsburgh
Investigating the function of the BAF complex in neural development.

EDUCATION

2020 **B.S., Microbiology** University of Pittsburgh.
Department of Biological Sciences
Minor in Chemistry, Certificate in Global Health

PREVIOUS POSITIONS

Sept. 2019 – **Undergraduate Researcher**
Apr. 2020 Advisor: Dr. Jim Peterson and Dr. Linda Pearce. Department of Environmental and
Occupational Health, University of Pittsburgh School of Public Health.
*Testing synergism of gallium and nitrite compounds as a potential novel antibiotic treatment
for Pseudomonas aeruginosa infections in Galleria mellonella.*

Aug. 2017 – **Research Extern**
Jul. 2018 Advisor: Dr. Dana Bovbjerg. Department of Biobehavioral Oncology, University of
Pittsburgh Hillman Cancer Center.
Investigating the effect of brief stresses on DNA integrity in BRCA1/2 positive individuals.

Aug. 2017 – **Undergraduate Student**
Dec. 2017 Professor: Dr. Jeffrey Hildebrand. Department of Biological Sciences, University of
Pittsburgh.
*Investigating the role of the Shortstop protein on the Shroom induced phenotype in the wing
and eye of Drosophila melanogaster.*

AWARDS AND FELLOWSHIPS

	<u>Year(s)</u>
University Honors College Undergraduate Research Fellowship	2020
Pitt in Ecuador Public Health Study Abroad Scholarship	2019
Connections4Health Community Health Fellowship	2018
Dean's List, Dietrich School of Arts and Sciences	2016-2020

PUBLICATIONS

H Zou, B Poore, **EE Brown**, J Qian, B Xie, V Razskazovskiy, D Ayrapetian, E Asimakidou, V Sharma, S Xia, F Liu, A Chen, Y Guan, Z Li, S Wanggou, X Wu, O Saulnier, M Ly, W Fellows-Mayle, G Xi, T Tomita, A Resnick, SC Mack, EH Raabe, CG Eberhart, D Sun, BE Stronach, S Agnihotri, G Kohanbash, S Lu, K Herrup, JN Rich, GK Gittes, A Broniscer, Z Hu, X Li, IF Pollack, RM Friedlander, SJ Hainer, MD Taylor, B Hu. Hijacking a neurodevelopmental epigenomic program in metastatic dissemination of medulloblastoma. *Nature Cell Biology*; Submitted, in review

POSTER PRESENTATIONS

Undergraduate Research Symposium: The Role of Shortstop on the Shroom induced phenotype in the Wing and Eye of Drosophila, Pittsburgh, PA, USA. December 2017

RELEVANT COURSEWORK

Genetics	General Chemistry (+ lab)	Virology lab
Genomics (+ lab)	Organic Chemistry (+ lab)	Intro to Neuroscience
Biochemistry	Microbial Physiology	Statistics
Immunology	Microbiology (+lab)	Physics I and II (+ lab)

PROFESSIONAL MEMBERSHIPS

2019 – Present **Member, Women in Biology (WIB) | Pittsburgh Chapter**

2017 – 2018 **Member, Nu Rho Psi National Honors Society | University of Pittsburgh Chapter**

MENTORING EXPERIENCE

- Braulio Bonilla, Post-Doc, Jan 2021
Cell culture, RNA extraction, RTqPCR, Data Analysis
- Santana Lardo, Research Specialist II, December 2020
Data Analysis, Computational Skills
- Trirupa Chakraborty, Rotation Student, Sept 2021
RTqPCR, Data Analysis

TECHNICAL SKILLS

- Mammalian Stem Cell Culture
- CRISPR/Cas9 gRNA cloning
- DNA and RNA library build
- RNA and Protein extraction
- Western Blot
- RTqPCR
- CUT&RUN
- CUT&Tag
- Nascent RNA-seq (TT-seq)
- ATAC-seq
- R and Unix applications for deep sequencing data analysis
- PCR
- Gel electrophoresis
- Bacterial culture
- Miniprep/Miraprep
- Microscopy and Spectrophotometry
- Microsoft Programs
- Clinical Research

VOLUNTEER AND LEADERSHIP EXPERIENCE

Organization	Role	Academic Year(s)
Global Public Health Brigades , University of Pittsburgh Chapter	Co-president Member	2018 – 2019 2016 – 2018
University of Pittsburgh Outdoors Club	Backpacking chair	2017 – 2019
Connections4Health , Northside Christian Health Center Pittsburgh, PA	Community Health Fellow	2018
Camp Christopher , Bath, OH	Resident Camp Counselor	2016-2017