

**CURRICULUM VITAE**  
**EMILY E BROWN**

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

Aug. 2017 –  
Jul. 2018 **Research Extern**  
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.*

Sept. 2004 –  
Aug. 2007 **Undergraduate Student**  
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**

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

**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)	

## **PROFESSIONAL MEMBERSHIPS**

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

## **MENTORING EXPERIENCE**

- Braulio Bonilla, Post-Doc, Jan 2021 - Present  
*Cell culture, RNA extraction, RTqPCR, Data Analysis*
- Santana Lardo, Research Specialist II, December 2020  
*Data Analysis, Computational Skills*

## **TECHNICAL SKILLS**

- Mammalian Cell Culture
- CRISPR/Cas9 gRNA cloning
- RNA extraction
- RTqPCR
- PCR
- Gel electrophoresis
- Bacterial culture
- Miniprep/Miraprep
- CUT&RUN
- Unix applications for deep sequencing data analysis
- Microscopy and Spectrophotometry
- Microsoft Programs
- Clinical Research

## **VOLUNTEER AND LEADERSHIP EXPERIENCE**

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