

# CONNOR NEALER

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## Education

### B.S. in Neuroscience

2011-2015

*Specialization in Systems and Behavioral Neuroscience*

Department of Neuroscience

Research Distinction in Neuroscience

The Ohio State University, Columbus, Ohio

### Minor in Computer and Information Sciences

*Focused on C and C++ languages*

Department of Computer Science and Engineering

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## Professional Experience

### Laboratory Manager

2015-Present

*PI: William Lafuse, Marshal Williams, Maria Ariza*

#### Researcher 1B/H

Institute for Behavioral Medicine Research

Center for Microbial Interface Biology

The Ohio State University, Columbus, Ohio

### Undergraduate Research Assistant

2012-2015

*PI: Dr. Benedetta Leuner*

(11 Semesters)

Departments of Neuroscience and Psychology

The Ohio State University, Columbus, Ohio

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## Publications

Leuner B, Fredericks PJ, Nealer C, Albin-Brooks C (2014). Chronic Gestational Stress Leads to Depressive-Like Behavior and Compromises Medial Prefrontal Cortex Structure and Function during the Postpartum Period. *PLoS ONE* 9(3): e89912. doi:10.1371/journal.pone.0089912

Leuner B, Albin-Brooks C, Nealer C, Sabihi S (2016). The Influence of offspring, parity, and oxytocin on cognitive flexibility during the postpartum period.

Lafuse W, Gearinger R, Fisher S, Nealer C, Baily M (2016). Social stress induces translocation of commensal lactobacilli to the spleen. *In preparation*.

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## Laboratory Management

- Trained personnel in microbiology and surgical techniques
- Ensured lab quality remained at EHS and IACUC standards.
- Maintained laboratory equipment and kept software up to date.
- Coordinated projects and communication between multiple laboratories in different departments.

## Grants and Awards

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Social and Behavioral Sciences Undergraduate Research Grant	2013
Denman Undergraduate Research Forum- Second Place	2014

## Presentations

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### *At The Ohio State University*

Neuroscience Undergraduate Research Colloquium	2013
Neuroscience Graduate Studies Program Poster Day	2013
Psychology Undergraduate Research Colloquium	2013
Neuroscience Undergraduate Research Colloquium	2014
Denman Undergraduate Research Forum	2014
Denman Undergraduate Research Forum	2015
Thesis Defense	2015

### *Other*

Midwest/Great Lakes Undergraduate Research Symposium, Wasbush College, Crawfordsville, Indiana	2014
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## Research Techniques

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### Histology

- Vibratome sectioning
- Slide mounting
- Cresyl violet
- Golgi staining
- Diolistic Labeling
- Toluidine blue staining
- Dendritic spine differentiation

### Animal Behavioral Testing

- Restraint, Swim, and Social Disruption Stress
- Attentional set shifting
- Test for anxiety-like behavior: elevated plus maze, open field, social interaction
- Test for depressive-like behavior: forced swim test, sucrose preference test
- Maternal behavior testing

### Surgical Techniques

*Performed and trained personnel in the following:*

- Transcardial perfusion
- Brain removal
- Microdissection
- Bronchoalveolar lavage
- Tail vein injections
- Intraperitoneal injections

### Microbiology Techniques

*Performed and trained personnel in the following:*

- RNA Isolation
- cDNA synthesis
- Blood Plasma Isolation
- Spleen cell lysis
- Real-time PCR
- Western Blotting
- ELISAs

### Computer Science and Program Use

- Proficient in C and C++ programming languages
- Confocal Microscopy and imaging