

Sarah N Framnes-DeBoer
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Education

In progress Ph.D. Biology
Estimated completion date: 2022
Marquette University, Milwaukee, WI
May 2008 B.S. Clinical Laboratory Science; Minor in Biology
Marquette University, Milwaukee, WI

Professional Experience

2018- 2019 Radiation Safety Technician, Marquette University, Milwaukee, WI.
2016- 2018 Medical Service Corps Officer, United States Navy Reserves, Milwaukee, WI.
2008- 2017 Clinical Laboratory Scientist. Zablocki VA Medical Center, Milwaukee, WI.

Certification

2008- Present American Society for Clinical Pathology

Honors and Awards

2019-2020 GAANN Fellowship
2018 Society for Neuroscience- Trainee Professional Development Award
Spring 2008 Dean's List, Marquette University
Fall 2006 Dean's List, Marquette University

Publications

Peer reviewed articles

1. **Framnes-DeBoer**, S.N., Bakke, E, Yalamanchili, S, Peterson, H, Sandoval, D.A., Seeley, R.J., and Arble, D.M., 2019. (*In preparation*). Bromocriptine improves glucose tolerance independent of circadian timing, prolactin, and melanocortin-4 receptor.
2. **Framnes**, S.N. and Arble, D.M., 2018. The bidirectional relationship between obstructive sleep apnea and metabolic disease. *Frontiers in endocrinology*, 9, 440.

Abstracts

1. **Framnes-DeBoer**, S.N., Arble, D.M. 2019. Intermittent Hypoxia, Sleep Fragmentation and Glucose Tolerance. Poster Presentation at the Experimental Biology Conference. Orlando, FL.
2. **Framnes**, S.N., Bakke, E, Arble, D.M. 2018. The effect of bromocriptine, a D2 receptor agonist, in lean and obese mice. Poster presentation at the Society for Neuroscience Conference. San Diego, CA.
3. Bakke, E., **Framnes**, S.N., Arble, D.M. 2018. Examining the Therapeutic Effects of Bromocriptine on Hyperglycemia in Lean and Obese Mouse Models. Poster presentation at Biodiscovery Symposium, Marquette University, Milwaukee, WI.
4. **Framnes**, S.N. 2008. Babesia: A Case Review. Poster Presentation, American Society for Clinical Laboratory Science State Convention- WI, Waukesha, WI.

Conferences

- 2019 Poster Presentation, Experimental Biology. Orlando, FL
2018 Poster Presentation, Society for Neuroscience. San Diego, CA.
2017 Guest Judge for Student Bowl, American Society for Clinical Laboratory Science State Convention- WI. La Crosse, WI.
2008 Poster Presentation, American Society for Clinical Laboratory Science State Convention- WI. Waukesha, WI.

Membership in Professional Societies

- 2019-Present American Physiological Society
2018-Present Society for Neuroscience
2008-present American Society for Clinical Pathology

Committee, Organizational, and Volunteer Service

Institutional Service

- 2019-2020 Logistics Chair. Graduate Student Organization
2018-2020 Graduate Student Representative. Biological Sciences Department
2018, 2019 Graduate Student Mentor. Summer Research Program
2007-2008 President. Clinical Laboratory Science Student Council
2006-2007 Junior Representative. Clinical Laboratory Science Student Council

Research Experience

- Spring 2018-
Present Graduate Student. **Dr. Deanna Arble**, Milwaukee, WI
Multiple drug studies in mice. Working on protocols and experiments for Intermittent Hypoxia. Mentors undergrads. Currently performing stereotaxic brain surgery in mice.
- Spring 2018 Graduate Rotation Student. **Dr. Deanna Arble**, Milwaukee, WI
Drug Study in Mice. 4-week drug study on 36 mice requiring daily IP injections of bromocriptine. Multiple days of Glucose Tolerance Testing performed, for 18 mice at a time. Presented final project in Dr. Evan's lab meeting.
- Fall 2017 Graduate Rotation Student. **Dr. Michael Schläppi**, Milwaukee, WI
Cold Tolerant Rice. 4-week Low Temp Seedling Survivability Experiment. Grew rice, isolated RNA at specific timepoints, multiple times, performed PCR and qPCR. Presented final project in lab meeting.
- Fall 2017 Graduate Rotation Student. **Dr. Michelle Mynlieff**, Milwaukee, WI
Calcium Imaging. Cultured neurons from rat pups. Calcium imaged multiple pups, sexes, and timepoints. Presented final project in lab meeting.

Teaching

- 2018 Teaching assistant. *General Biology 2*. Marquette University.
Led and graded 4 discussions a week for 150 students. Contributed exam questions. Designed and led lecture on "The Brain".
- 2017 Teaching assistant. *General Biology 1*. Marquette University.
Led and graded 4 discussions a week for 150 students. Designed and led lecture on the "Theory of Evolution".
- 2014-2015 Guest Lecturer. Marquette University's Clinical Laboratory Science. "Clinical Enzymes" and "Cardiac Markers"

Related Course Work- Graduate

Fall 2019	Foundations in Neuroscience 1
Spring 2019	Foundations in Neuroscience 2
Fall 2018	Statistics
Spring 2018	Advanced Cell Biology and Biochemistry
Spring 2018	Neurochemical Basis/ Behavior
Fall 2017	Advanced Genetics and Cell Biology
Fall 2017	Protein Structure and Function

Related Course Work- Undergraduate

Fall 2007-	Clinical Lab Management, Clinical Chemistry, Clinical
Spring 2008	Immunohematology, Clinical Immunology/ Serology, Clinical Microbiology
Spring 2007	Human Physiology
Spring 2007	Medical Microbiology
Spring 2006	Biochemistry
Spring 2006	Organic Chemistry 2
Spring 2006	Public Health
Fall 2006	Immunobiology
Fall 2006	Medical Bacteriology
Spring 2005	General Biology 2
Spring 2005	Principles of Biological Investigation
Fall 2005	Human Anatomy
Fall 2005	Organic Chemistry
Fall 2004	Introduction to Biology
Fall 2004	General Chemistry