

Christina Eckenreiter

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Education

Fall 2020

Summer 2023

B.S. Pre-Veterinary Sciences (3.78 GPA)
University of Massachusetts Amherst

Relevant Courses

Microbiology

Biochemistry

Immunology

Nutrition

Infectious Disease

Genetics

Research History

October 2023	Laboratory Technician New Bedford Health Department Lab <ul style="list-style-type: none">Monitored the concentration of Total and Fecal coliforms in public swimming water using Environmental Protection Association (EPA) Method 1600 and notified the public of beach closures when necessary.Organized data for the Massachusetts Department of Public Health (MADPH) and reported important findings to their database.Maintained and analyzed historical data for over 1500 samples.Managed and maintained laboratory records to meet EPA and MADPH quality assurance and quality control requirements.
June 2023	
May 2023	Laboratory Technician Dr. Gervasi Laboratory <ul style="list-style-type: none">Executed experiments and collected representative data of the signaling pathways required to undergo important biochemical processes in the bovine model using immunofluorescence and microscopic imaging with DIC microscope.Independently organized and presented data to the publicParticipated in department laboratory meetings to converse about the lab findings of our department as well as invited guest speakers to discuss the findings in their lab.
June 2022	

Research History Cont.

May 2022	Dr. Visconti Laboratory
	<ul style="list-style-type: none">Independently organized, standardized, and executed experiments with a primary focus in developing a deeper understanding of signaling cascades in the sperm capacitation process using Western Blot technique.Participated and presented in laboratory meetings to discuss the goals and progress of each lab member and offer/receive constructive criticism.Utilized the mouse reproductive tract and its sperm as models to understand the important biochemical pathways and signaling pathways required to undergo complicated processes.
January 2021	<ul style="list-style-type: none">Utilized statistical imaging software (CASA) to measure biological and physiological changes in models after manipulating laboratory conditions.

Clinic Experience

May 2022	Veterinary Technician
	Mattapoisett Animal Hospital
	<ul style="list-style-type: none">Prepared and administered vaccines and medicationsConducted physical therapy and created treatment plansAided in the physical examinations and restraint of domesticated and exotic animalsObtained and prepared various blood, fecal, urine, and tissue samples for diagnostic testing both in house an in secondary locations
September 2020	

Research Internship

2022 Summer Café Research Scholar

Project: Bovine Sperm Ca²⁺ Signaling and Energy Pathways in Basic Science and Assisted Reproductive Technologies (ART)

Major: Animal Science

Supervisor: Pablo Visconti

Presentations

Sperm energy restriction and recovery (SER) treatment improves sperm function in the bovine model.

Arroyo-Salvo C, Aguila-Paredes L, **Eckenreiter C**, Shaw R, Navarrete FA, Perez-Martinez S, Fissore R, Visconti PE, and Gervasi MG. Gordon Research Conference (GRC), Fertilization & Activation of Development. Holderness, NH, United States. July 2023. Format: poster.

Bovine sperm Ca^{2+} signaling and energy pathways in basic science and assisted reproductive technologies (ART). **Eckenreiter C**, Shaw R, Fissore R, Visconti P, and Gervasi MG. Meeting organized by the Cafe Summer Scholars Program, University of Massachusetts. Amherst, MA. Sep 2022. Format: poster.

Sperm Energy restriction and Recovery (SER) effects on bovine sperm function. Shaw R, **Eckenreiter C**, Visconti PE, Gervasi MG. Meeting organized by the Lee Science Impact Program (Lee SIP), University of Massachusetts. Amherst, MA. Aug 2022. Format: poster.

References

Jane Würm

Laboratory Director, New Bedford Health Department Lab, New Bedford, Massachusetts, USA

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Dr. Maria Gervasi

Assistant Professor of Reproductive Physiology, Department of Animal Science. University of Connecticut, Storrs, CT, USA

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Dr. Pablo Visconti

Professor of Veterinary and Animal Sciences, University of Massachusetts, Amherst, Massachusetts, USA

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