PURDUE UNIVERSITY | Department of Biological Sciences



# NEUROSCIENCE AND PHYSIOLOGY SEMINAR SERIES

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## *"Ultrasonic Vocalizations as a Neuroscience Research Tool: Applications and Methodological Considerations."*

Ultrasonic vocalizations (USVs) are an important form of communication in laboratory rats and mice and are increasingly used to investigate affective, social, and sensorimotor processes relevant to neuroscience. In this joint presentation, we will first examine the current landscape of USV research through findings from our scoping review, highlighting common applications, methodological approaches, and opportunities to improve rigor and reproducibility. We will then translate these findings to practice by discussing our recently published JoVE protocol for eliciting and recording appetitive USVs in laboratory rats and mice. Together, these projects provide an overview of how USVs are used in neuroscience and related research areas while highlighting methodological considerations for advancing reliable, reproducible approaches to studying them.

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**TUESDAY, OCTOBER 20TH | 12:00 PM | LILY 1-117**