UC RIVERSIDE

# DEPARTMENT OF ENTOMOLOGY

## Entomology Seminar Series

## Speaker:

Enakshi Ghosh, Ph.D.

**Date:** Monday, March 3rd, 2025
**Time:** 4:00 pm - 4:50 pm
**Format:** In-Person Seminar & Virtual Access
**Location:** Genomics Auditorium, Room 1102A

**Zoom:** 952 1906 3064

**Passcode:** 505445

## Title:

"Plants, Pests and Natural Enemies: From Interactions to Applications"

## Abstract:

A longstanding debate in ecology centers on whether herbivore traits are primarily shaped by resource quality or by the activities of their consumers. The interplay between these selective pressures profoundly influences herbivore physiology, ecological roles, and evolutionary trajectories across ecosystems. My research examines this dynamic through the lens of chemical ecology, with a particular focus on herbivore eco-immunology in an evolutionary context. In this talk, I will discuss how integrating metabolomics, insect behavior, molecular biology, and eco-immunology provides deeper insights into trophic interactions. My current research program is guided by two key themes: (1) understanding the role of plant defense chemistry in shaping trophic interactions and (2) investigating how volatile compounds regulate insect behavior and physiology. Additionally, I will highlight my collaborative efforts to integrate eco-immunology into experimental evolution and native pollinator conservation.

https://zoom.us/j/95219063064?from=join#success

*Refreshments will be served in the Entomology Building at 3:00 pm*