



Speaker:

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Ph.D. Curriculum Vitae

Department of Entomology

University of California, Riverside

Date: Monday, November 07, 2022

Time: 4:00 pm - 4:50 pm

Format: In-Person Seminar & Virtual Access

Location: Genomics Auditorium 1102A

Zoom: 938 1040 4405

Passcode: 833289

Title:

“Treatment of chickens with thyme essential oil for control of northern fowl mites”

Abstract:

The northern fowl mite, *Ornithonyssus sylviarum*, is a blood-feeding ectoparasite of chickens and other birds. In egg-laying chickens, mites can have detrimental effects to hen health and egg production. Northern fowl mite control has traditionally relied on the use of conventional acaricides. However, few products are approved for use in animal agriculture and acaricide resistance is a major problem on commercial farms. Thyme essential oil has been shown to kill northern fowl mite adults in in vitro assays. In this study, chickens infested with northern fowl mites were treated with thyme essential oil formulated in DI water at one of two doses ("high" and "low" dose). Northern fowl mite populations were greatly reduced 1-week post-treatment after application with the high dose. The low dose did not impact northern fowl mite populations.

Refreshments will be served in the Entomology Building Courtyard at 3:30pm