Auburn University College of Agriculture

## PLANTS, INSECTS AND MICROBES SYMPOSIUM

## MAY 20, 2025 AUBURN, AL

Academic Classroom and Laboratory Complex (ACLC)

**Room Information** ACLC 012: Oral Presentations ACLC 202 & 208: Posters





## PLANTS, INSECTS AND MICROBES SYMPOSIUM



7:30-8:00 am	Collect your registration badge, set up presentations, posters and grab coffee and breakfast
	Judges check-in with the Symposium Planning Committee
8:00-8:10 am	Welcome by Dr. Neha Potnis and Introductory remarks by Dr. David Held
<b>8:10-8:50 am</b> (ACLC012)	KEYNOTE: Dr. Clare Casteel Microbial remodeling of plant-insect interactions
Session I	Oral Presentations
(ACLC012)	
8:55-10:10 am	O-1 Rachel M. Livingston A novel system for virus-induced gene silencing in cotton with CLRDV
	O-2 Zimo Yang Predicting the phenology of herbivorous insects
	O-3 Amanpreet Kaur Pathogens on the prowl: Do abiotic stress-driven changes help pathogens exploit and overcome disease resistance more rapidly?
	O-4 Darmon A. Kahvazadeh What good are soldiers during peacetime? Foraging efficiency of fire ant soldiers
	O-5 Jennifer M. Standley Common floral forage found in the Southeastern United States and their biometric effects on the western honeybee
	O-6 Madelyn G. Thompson Evaluating best fall management practices of pollinator plantings in Southeastern agriculture systems
	O-7 Kyle Oswalt Transcriptomic discovery of RNAi targets for sex-specific and lethal gene silencing in the poultry pest <i>Alphitobius diaperinus</i>

Session II (ACLC012)	Oral Presentations
10:30-11:50 am	O-8   Maxwell L. Cavassa In-furrow insecticide persistence and effects on peanuts and cotton in Southeast Alabama
	O-9 Nicholas Wagner Method development for use of synthetic tomato xylem to study biofilm formation of the plant pathogen <i>Ralstonia pseudosolanacearum</i>
	O-10 Ivy N. Thweatt Exploring the role of rhizosphere microbiome in hemp plant growth and defense against two-spotted spider mites
	O-11 Ashmita Sapkota Optimizing gel bait toxicity for all developmental stages of American Cockroach ( <i>Periplaneta americana</i> ) (Blattodea: Blattidae): The role of competitive food availability
	O-12 Mamata K C Xylem sap-mediated growth and biofilm formation of Xylella fastidiosa and its potential role in host adaptation and virulence
	O-13 Dylan Brown Mechanisms and management: Impact of alternating insecticide selection in <i>Aedes aegypti</i>
	O-14   Logan Luchs From seed to shining seedling: The soil steaming effects on spermosphere assembly and plant health
12:00-1:00 pm	Lunch at The Edge Dining Hall
<b>1:10-1:50 pm</b> (ACLC012)	KEYNOTE: Dr. Brock Harpur The life and death of recessive mutations as seen through the eyes of a honeybee
Session III (ACLC012)	Oral Presentations
1:55 – 3:00 pm	O-15   Palash Ghosh The hidden arsenal: How Xanthomonas perforans wields T6SS for survival and defense
	O-16 Elijah Carroll Stable pair coordination enables change in the order of mating behavior sequence in a termite
	O-17 Erica Maul How honeybees process dead mice in the nest
	O-18   Morgan Bragg Monitoring cotton soilborne seedling diseases through metabarcoding and shotgun metagenomics
	O-19 Anthony W. Cuminale Field edges as refuges: Conserving ground- nesting wasps in tilled landscapes
	O-20 Dan Aurell Environmental DNA as a detection approach for Tropilaelaps mites, invasive honeybee mites of global concern
Session IV (ACLC012)	Poster Presentations
<b>3:05-4:05pm</b> (ACLC202 & 208)	Odd-numbered posters
<b>4:05-5:05 pm</b> (ACLC202 & 208)	Even-numbered posters

5:30-7:30 pm Awards ceremony at the Collegiate Hotel 205 S Gay St, Auburn, AL

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