



Southeastern Center of Excellence in Vector Borne Diseases

The Gateway Program

Kassidy Caride, MPH
SECVBD Program Coordinator

Mission



Maintain an established, comprehensive, applied, and basic research program that fully addresses the epidemiological triad to underpin our understanding of vector-borne disease transmission in the continental U.S. and territories.

Augment the Community of Practice in Public Health Entomology

Public Health Outcomes



Socio-behavioral modifications of clinical tick-borne illness diagnoses, personal protective measures, and adoption of tick-encounter reduction technology.

Exploration of strategies for proactive vector control and enhancement of vector surveillance and control operations.

New delivery modalities for novel chemical active adulticides against insecticide-resistant mosquitoes.

Strengthened public health entomology community in the Southeastern U.S. and U.S. Territories in the Caribbean.

Generate higher resolution of tick vector distribution and tick-borne illness prevalence in vector populations.

Promote diversity, equity, and inclusion in accessing training opportunities in public health entomology.

Leadership and Collaboration

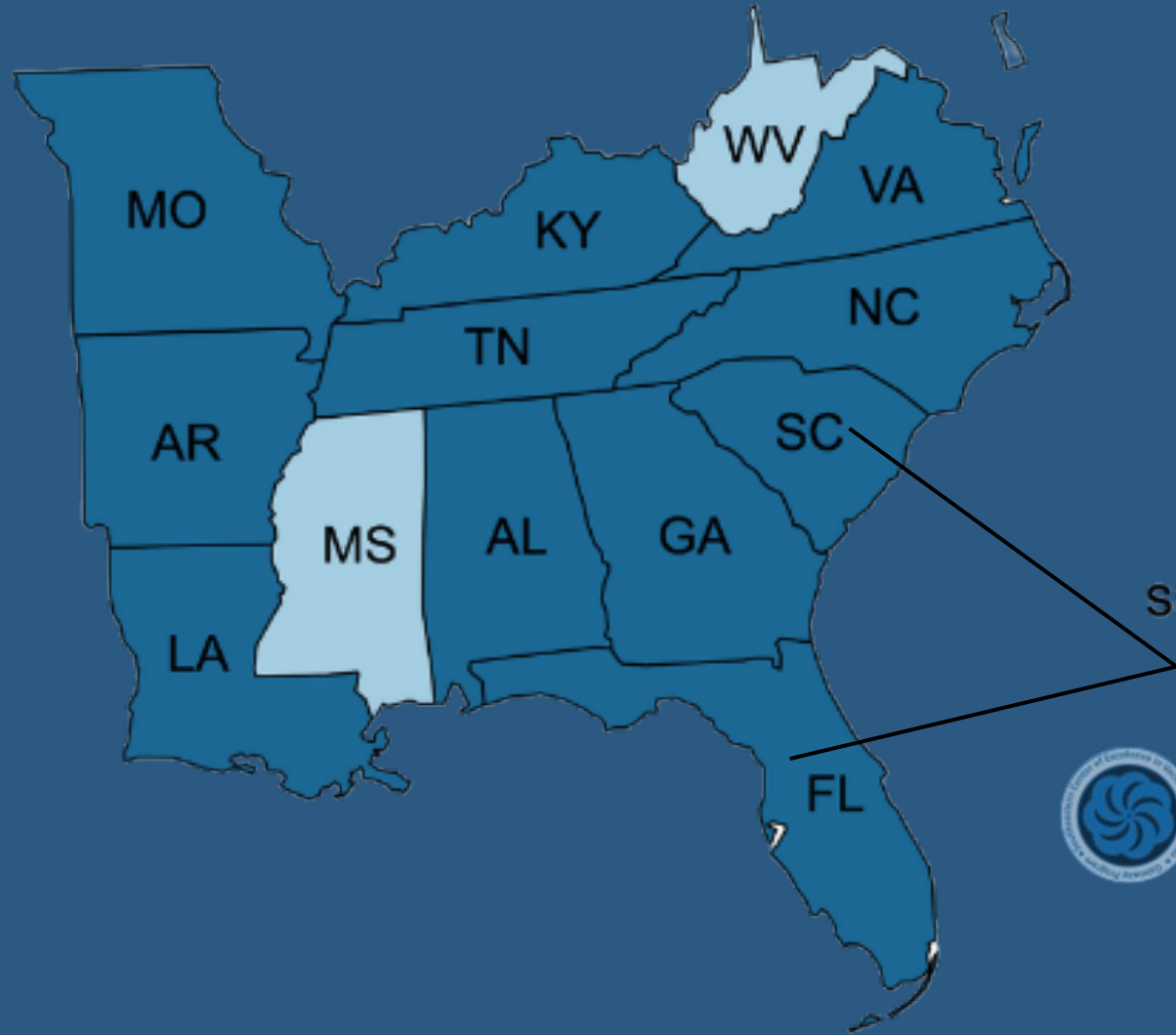


SECVBD

- Partners 2017-Present
- Establishing Partnership



Leadership and Collaboration



SEC VBD

Leadership Team



Dr. Rhael
Dinglasan
SEC VBD
Director



Dr. Melissa
Nolan
SEC VBD
Deputy Director



Kassidy Curide, MPH
SEC VBD
Program Coordinator



Leadership Team



Dr. Rhoel
Dinglasan

SECVBD
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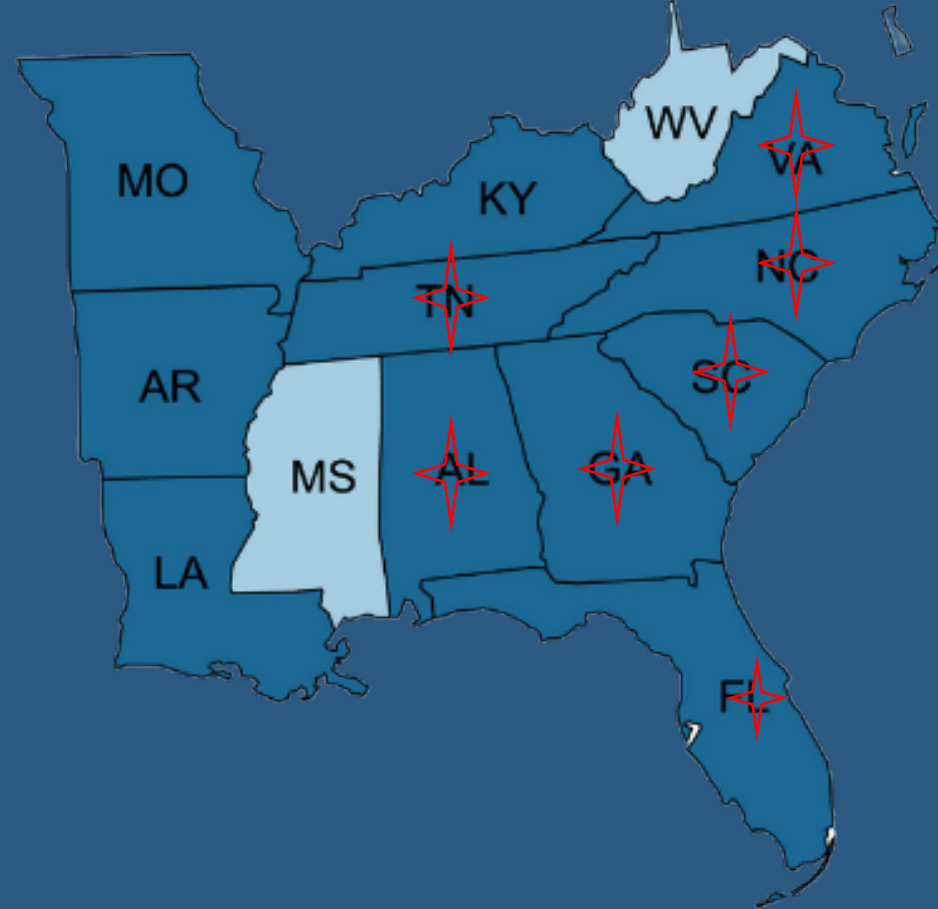
Other
Regional
CoEs

State
Health
Agencies

CSTE
NACCHO
ASTHO

AMCA
NPMA
ESA

Leadership and Collaboration



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Primary Institutions

AL

University of Southern
Alabama

TN

Tennessee Department of
Health

FL

University of Florida
University of Miami
Florida International University

PR

Ponce Health Sciences
University

GA

Georgia Department of
Health

VA

Old Dominion
University

NC

University of North
Carolina



SECVBD Activities



Addressing emerging issues of tick-borne diseases in the SE

Training Opportunities

A paradigm shift from reactive to proactive public health responses to mosquito-borne disease outbreaks in the SE and US territories.

Evaluating mosquito bite exposure through serology

Reducing insecticide-resistant *Anopheles* populations through novel vector control tool interventions and resistance-breaking chemical activities

Activities focused on capturing *Anopheles* adult mosquito temporal movement and host-seeking in an intervention site

A paradigm shift from reactive to proactive public health responses to mosquito-borne disease outbreaks in the SE and US territories.

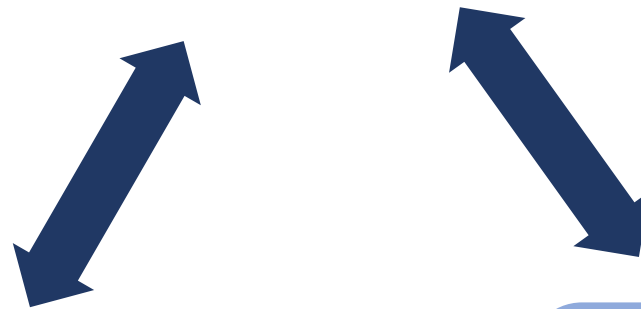
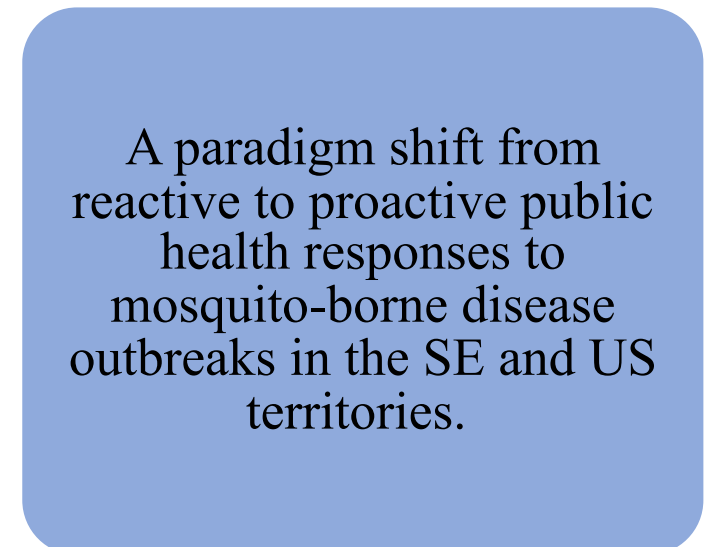
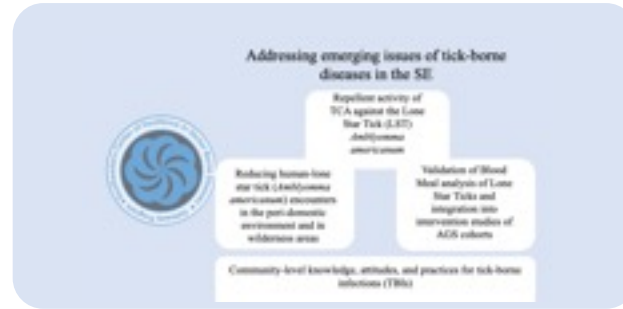


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SECVBD Activities



Addressing emerging issues of tick-borne diseases in the SE



Repellent activity of
TCA against the Lone
Star Tick (LST)
*Amblyomma
americanum*

Reducing human-lone
star tick (*Amblyomma
americanum*) encounters
in the peri-domestic
environment and in
wilderness areas

Validation of Blood
Meal analysis of Lone
Star Ticks and
integration into
intervention studies of
AGS cohorts

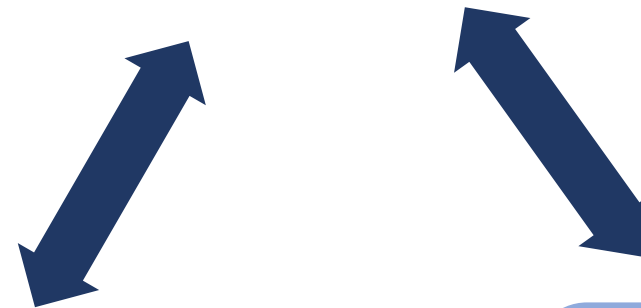
Community-level knowledge, attitudes, and practices for tick-borne
infections (TBIs)

SECVBD Activities



Addressing emerging issues of tick-borne diseases in the SE

A paradigm shift from reactive to proactive public health responses to mosquito-borne disease outbreaks in the SE and US territories.



**Field Training
Internships**

Aimed at increasing
the surveillance,
pathogen diagnostic
capacity, and tick-
species control
across the SE

**Vector-borne
Disease Public
Health
Certificate**

**Targeted CEU
and Hands-on
Topical
Training**

**Diversity,
Equity, and
Inclusion**

**Graduate
Training
Fellowships**

**Field Training
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**Vector-borne
Disease Public
Health
Certificate**

Working
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graduate
trainees across
the SECVBD
regional
catchment

**Targeted CEU
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Vector-borne Disease Public Health Certificate

Working professionals and graduate trainees across the SECVBD regional catchment

Targeted CEU and Hands-on Topical Training

Public Health entomology employees and students

- Dodd short courses
- Tick workshop
- CEU-credited mosquito and tick online modules

Diversity, Equity, and Inclusion

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Diversity, Equity, and Inclusion

Amplifying training opportunities for historically underrepresented populations

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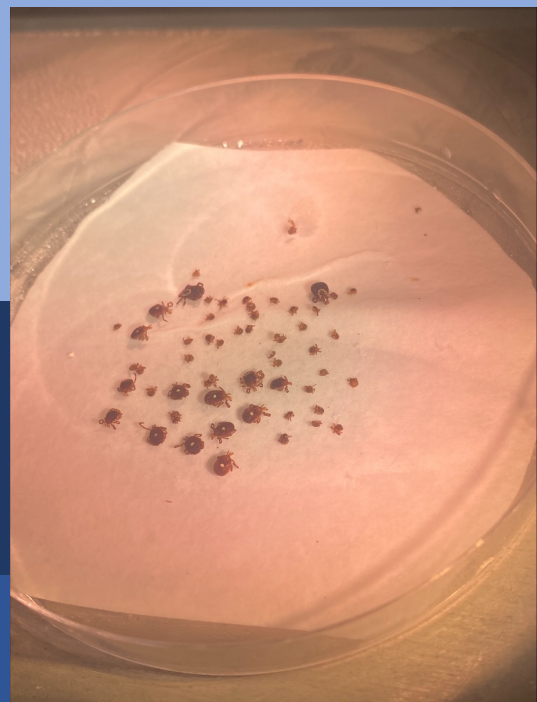
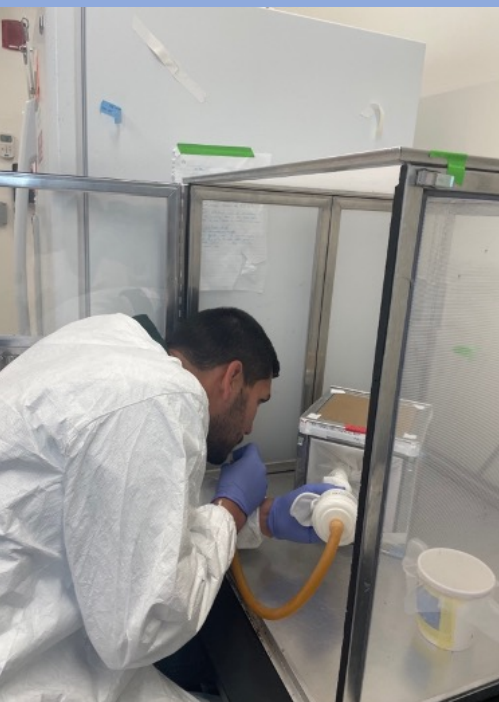
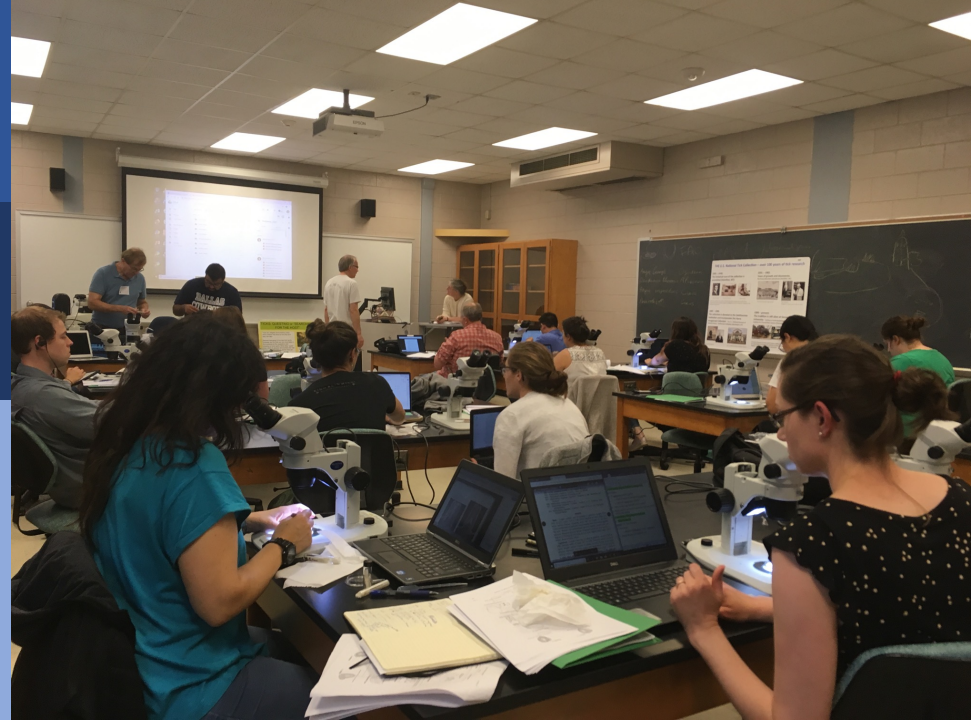
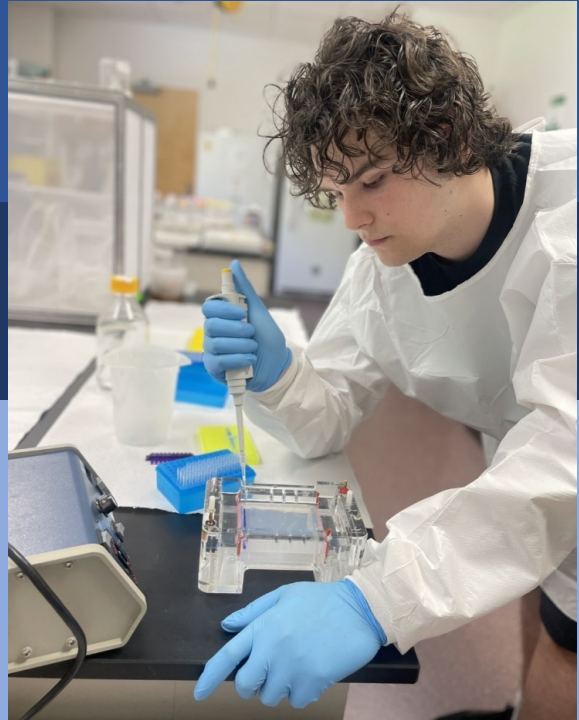
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Diversity, Equity, and Inclusion

Amplifying training opportunities for historically underrepresented populations

Graduate Training Fellowships

Doctoral and masters-level scholars with interest in advancing public health entomology



Thank you GMCA!



Southeastern Center of Excellence in
Vector Borne Disease



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