

DEPARTMENT OF

ENTOMOLOGY



Research Overview

The Department of Entomology's research portfolio consists of basic science that builds on strengths in insect – insect biodiversity, plant interactions, and applied pest management research focused on stakeholder needs and priorities. We work on a range of insect problems using diverse tool-sets and varied disciplinary approaches.

Research Areas

- HOST PLANT-INSECT INTERACTIONS
- ARTHROPOD MOLECULAR BIOLOGY & GENOMICS
- INTERNATIONAL COOPERATION & DEVELOPMENT
- ENVIRONMENTAL & EVOLUTIONARY ENTOMOLOGY
- INSECT SCIENCE EDUCATION
- INTEGRATED PEST MANAGEMENT
- FORENSICS

Research Centers

- CENTER FOR ENVIRONMENTAL AND REGULATORY INFORMATION SYSTEMS (CERIS)
- CENTER FOR URBAN AND INDUSTRIAL PEST MANAGEMENT (CUIPM)
- NATIONAL AGRICULTURAL PEST INFORMATION SYSTEM (NAPIS)
- NATIONAL PESTICIDE INFORMATION RETRIEVAL SYSTEM (NPIRS)
- NATIONAL PLANT DIAGNOSTIC NETWORK (NPDN)
- PURDUE ENTOMOLOGICAL RESEARCH COLLECTION (PERC)

*Pictured at left from top:
a Varroa mite on a bee,
Dr. Laura Ingwell,
Dr. Catherine Hill,
Dr. Linda Mason and
Dr. Christian Krupke*

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Signature Research Areas

I	Host Plant-Insect Interactions
II	Arthropod Molecular Biology & Genomics
III	International Cooperation & Development
IV	Environmental & Evolutionary Entomology
V	Insect Science Education
VI	Integrated Pest Management
VII	Forensics

Baributsa, Dieudonné - III, VI dbaribut@purdue.edu
International IPM, Postharvest Entomology

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Indiana State Survey Coordinator, Cooperative Ag Pest Survey (CAPS)

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Ecology and Evolution of Urban and Invasive Arthropods

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Insect Evolutionary Biology

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Plant-Insect Chemical Ecology

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Evolutionary Ecology and Ecoimmunology

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Plant-Insect-Microbe Interactions, Microbiomes

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Forensic Sciences

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Evolutionary Biology

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Biology and Control of Arthropod Disease Vectors

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Landscape Ecology and Insect Biodiversity

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Ecology of Herbivores and Natural Enemies

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Field Crop Pest Management

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Horticultural Entomology

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Behavior, Food Pest IPM

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Integrated Pest Management Specialist

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Insect Genomics/Toxicology/International Development

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Ornamental Pest Management

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Population Genetics

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Insect Systematics

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Plant-Insect Interactions

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Invasion Biology

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Plant-Nematode Interactions