Our Research

In terms of biodiversity, insects are the most successful organisms: more than a million species have been described. The development of this biodiversity was associated with the acquisition of a huge arsenal of molecules which insects use to secure their food supply or defend themselves against diseases and parasites. The scientists of the Campus Research Focus "Insect Biotechnology and Bioresources" employ biotechnological methods to use insects as a resource for new molecules for applications in medicine, crop protection and industrial biotechnology.

The research cluster is the first one in Europe to focus on insect biotechnology and bioresources and aims to identify and further develop active agents against infectious diseases, for pest control and against the spreading of insect-borne diseases, and also to find new sources of protein to feed livestock. The cutting-edge technology emerging from this research has great economic and innovative potential.

Our Key Questions

- What can we learn from insects?
- How can we control crop pests and disease transmitters among insects in an eco-friendly and sustainable manner?
- How can we feed a growing global population sustainably?

FCMH Partners

Contact

Forschungscampus Mittelhessen (FCMH)
Management Office
Senckenbergstr. 3
35390 Giessen
+49 641 16481
geschaeftsstelle@fcmh.de
www.fcmh.de

fcmh.de/insectbio
Current Research Projects

- EU Project (biodivERSA-Programm): “EXOTIC: EXperimentally Ori-entated genomics to Tackle Insects adaptive Challenges during bioinvasions: the ladybird Harmonia axyridis as a model species”
- LOEWE Centre “Insect Biotechnology & Bioresources,” incl. cooperative postgraduate programme “Bioresources and Biotechnology”
- Participation in LOEWE Centre “Translational Biodiversity Genomics” (LOEWE-TBG); subproject: Animal Venomics

Research Infrastructures


Research Environment and Cooperation Partners

- Fraunhofer Institute for Molecular Biology and Applied Ecology (IME)

Contact Persons

Justus Liebig University Giessen
Prof. Dr. Andreas Vilcinskas
Faculty of Agricultural Sciences, Nutritional Sciences, and Environmental Management
+49 641 99-37600
andreas.vilcinskas@agrar.uni-giessen.de

Technische Hochschule Mittelhessen
University of Applied Sciences
Prof. Dr. Peter Czermak
Faculty of Life Science Engineering Biotechnology
+49 641 309-2850
peter.czermak@lse.thm.de

More Information

 scams.de/insectbio