

Gomulski research activity

The research group deals with genomics, transcriptomics and evolutionary, reproductive and behavioural biology of insects of agricultural interest and public health relevance with the aim of developing innovative control strategies that are environmentally sustainable.

The insect species currently studied are the Asian tiger mosquito *Aedes albopictus*, vector of viruses including Zika, Dengue and Chikungunya; the Mediterranean fruitfly, *Ceratitis capitata*.

Main Lines of Research:

Genome sequencing targeted at the identification of genes related to reproduction, chemoreception, adaptation and, consequently, host/parasite interactions.

Analyses of invasive processes using high resolution molecular markers (SSRs, SNPs) are used to study the genetic links between ancestral and derived populations.

Analyses of reproductive processes using functional genomics techniques.

Analysis of insect chemoreception.