Unravelling the molecular-genetic underpinnings of hybrid defects in agricultural pests

Fact Sheet

Project Information

HYBRIPEST
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European Research Council (ERC)

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€ 1 499 375,00

EU contribution
€ 1 499 375,00

Coordinated by
UNIVERSITEIT GENT
Belgium

Start date
1 May 2023
End date
30 April 2028

Project description

Molecular-genetic mechanisms of dysfunctional hybrid offspring in agricultural pests

Certain processes, such as incompatible gene interactions, mating with incompatible partners, or cytoplasmic incompatibilities mediated by bacterial parasites like Wolbachia, can result in dysfunctional hybrid offspring in agricultural pests. Although these offspring are used in new pest control strategies, there is a knowledge gap related to the molecular genetic mechanisms that cause these incompatibilities, which hinders the development of new innovations. The EU-funded HYBRIPEST project aims to study and uncover the processes and mechanisms responsible for
these incompatibilities. It will do so by studying an important pest that can lead to various hybrid defects and is affected by a recently developed genetic toolkit.

Fields of science

natural sciences > biological sciences > genetics > genomes

Keywords

hybrid incompatibility  pest control  reproductive parasitism  genetic mapping  spider mites

Programme(s)

HORIZON.1.1 - European Research Council (ERC)

Topic(s)

ERC-2022-STG - ERC STARTING GRANTS

Call for proposal

ERC-2022-STG

See other projects for this call

Funding Scheme

ERC - Support for frontier research (ERC)

Coordinator

UNIVERSITEIT GENT
Net EU contribution
€ 1 499 375,00

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Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 0,00

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