The molecular mechanisms of sex determination in a malaria parasite

Fact Sheet

Project Information

MalariaSex
Grant agreement ID: 895744

Funded under
EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

DOI
10.3030/895744

Project terminated on 31 March 2022

Start date
1 September 2021

End date
31 August 2023

Total cost
€ 191 852,16

EU contribution
€ 191 852,16

Coordinated by
UMEA UNIVERSITET
Sweden

Project description

Sexual reproduction of the malaria parasite

Transmission of the Plasmodium parasite, the causative agent of malaria, to a new host requires sexual reproduction in the mosquito. Recent evidence indicates that sexual development involves a small panel of genes that regulate the sex ratio, an adaptive trait paramount for transmission success in response to different conditions. The EU-funded MalariaSex project will investigate the function of these genes and their underlying mechanisms. The identification of the molecular mechanisms responsible for Plasmodium sexual development will shed light on the regulation of life cycle decisions and facilitate the design of interventions that block transmission.
Fields of science

medical and health sciences  >  health sciences  >  infectious diseases  >  malaria
natural sciences  >  biological sciences  >  biochemistry  >  biomolecules  >  nucleic acids
natural sciences  >  biological sciences  >  biochemistry  >  biomolecules  >  proteins
natural sciences  >  biological sciences  >  genetics  >  chromosomes
natural sciences  >  biological sciences  >  zoology  >  invertebrate zoology

Keywords

Sex determination  Plasmodium  Gametocytogenesis

Programme(s)

H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions
H2020-EU.1.3.2. - Nurturing excellence by means of cross-border and cross-sector mobility

Topic(s)

MSCA-IF-2019 - Individual Fellowships

Call for proposal

H2020-MSCA-IF-2019

See other projects for this call

Funding Scheme

MSCA-IF - Marie Skłodowska-Curie Individual Fellowships (IF)

Coordinator

UMEA UNIVERSITET
Net EU contribution
€ 191 852,16

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Region
Norra Sverige > Övre Norrland > Västerbottens län

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

Other funding
€ 0,00

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