CITIZEN SCIENCE

MELANOGASTER Catch The Fly

Citizen science network in adaptation genomics

#MelanogasterCTF www.melanogaster.eu

FUNDING ENTITIES:

PARTNERS:

ORGANIZERS:

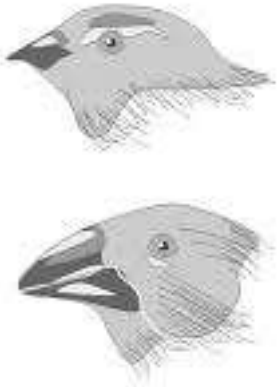
UNDERSTANDING ADAPTATION

Extreme desiccation

Polluted environments

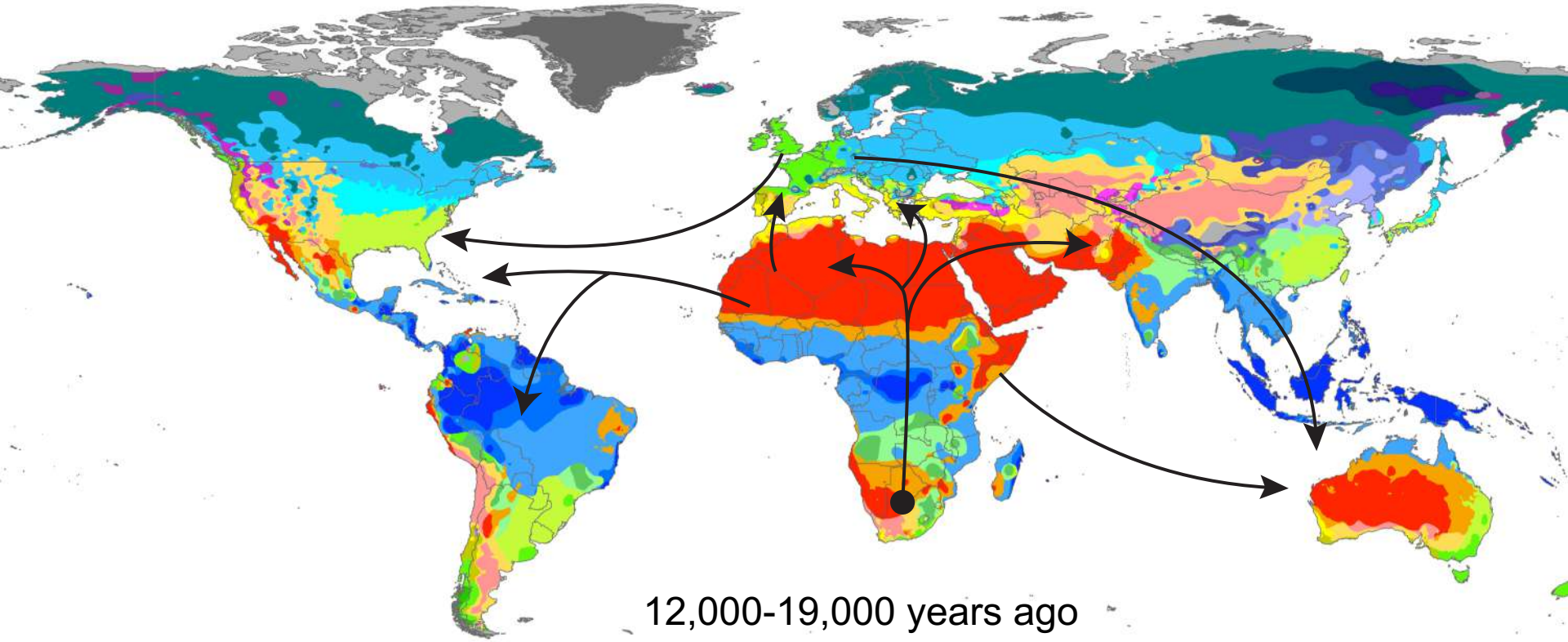
High altitudes

Extreme low temperatures



Food sources

DROSOPHILA MELANOGASTER

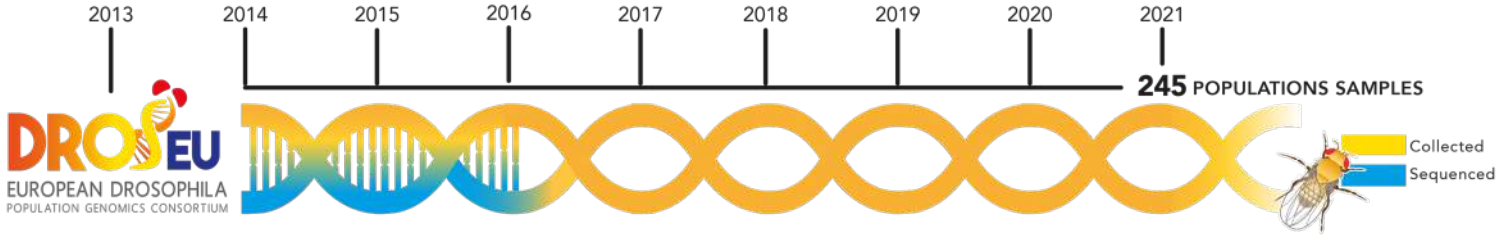


12,000-19,000 years ago

Recent adaptations must be common in this species

- new pathogens
- new diet
- range of temperatures
- toxic environments

Sprengelmeyer et al 2020, Arguello et al 2019

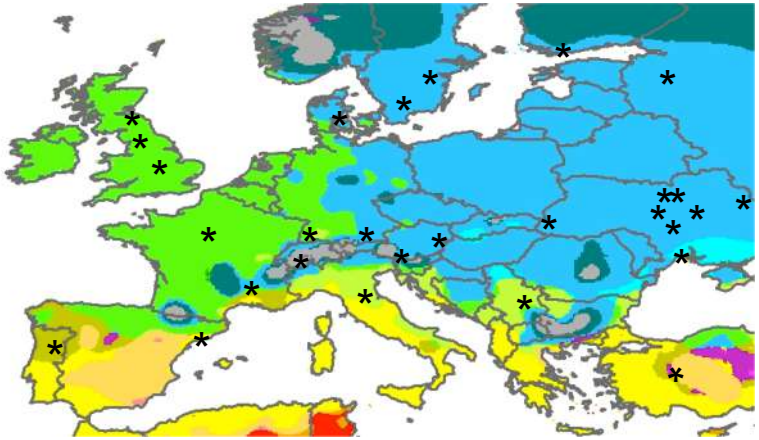


Thomas Flatt
Uni Fribourg

Natural History
Museum Vienna

Josefa González
IBE, CSIC

73 laboratories / 28 countries



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Roberto
Torres

CITIZEN SCIENCE

MELANOGASTER

Catch The Fly

Barcelona

González•Lab
Evolutionary and Functional Genomics

DROSEU
EUROPEAN DROSOPHILA
POPULATION GENOMICS CONSORTIUM

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PROJECT ACTIVITIES

CITIZEN SCIENCE
MELANOGASTER
Catch The Fly

1. Fieldwork and labwork: collecting and classifying fruitflies

FUNDING ENTITIES:

PARTNERS:

ORGANIZERS:

PROJECT ACTIVITIES

CITIZEN SCIENCE
MELANOGASTER
Catch The Fly

1. Fieldwork and labwork: collecting and classifying fruitflies

Educational materials:
presentations and short videos
Spanish/English/French

MAGNI FLY

Citizen participation in technological development

FUNDING ENTITIES:
GOBIERNO DE ESPAÑA MINISTERIO DE CIENCIA E INNOVACIÓN
FECYT INNOVACIÓN
erc European Research Council
Fundación General CSIC

PARTNERS:
DROSEU EUROPEAN DROSOPHILA POPULATION GENOMICS CONSORTIUM
Genomics, Bioinformatics & Evolutionary Biology
UAB Universitat Autònoma de Barcelona

ORGANIZERS:
LCATM La Ciència Al Teu Món
González Lab Evolutionary and Functional Genomics
ATTCTGCCC TCAGTT CTA TCGAACCAA
CREAF
i:e CSIC

PROJECT ACTIVITIES

2. Experimental data validation

3. Bioinformatic data analysis

FUNDING ENTITIES:
PARTNERS:
ORGANIZERS:

PROJECT ACTIVITIES

CITIZEN SCIENCE
MELANOGASTER
Catch The Fly

4. Monitoring local biodiversity and local climatic variables

TRACK THE FLY

Drosophila simulans

Drosophila melanogaster

Drosophila suzukii

Zaprionus indianus

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PEBB

IBE CSIC

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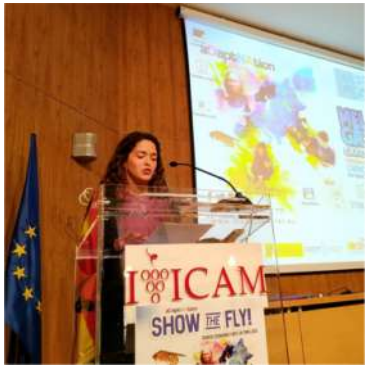
PROJECT ACTIVITIES

5. Teacher training

6. Communication activities lead by citizens

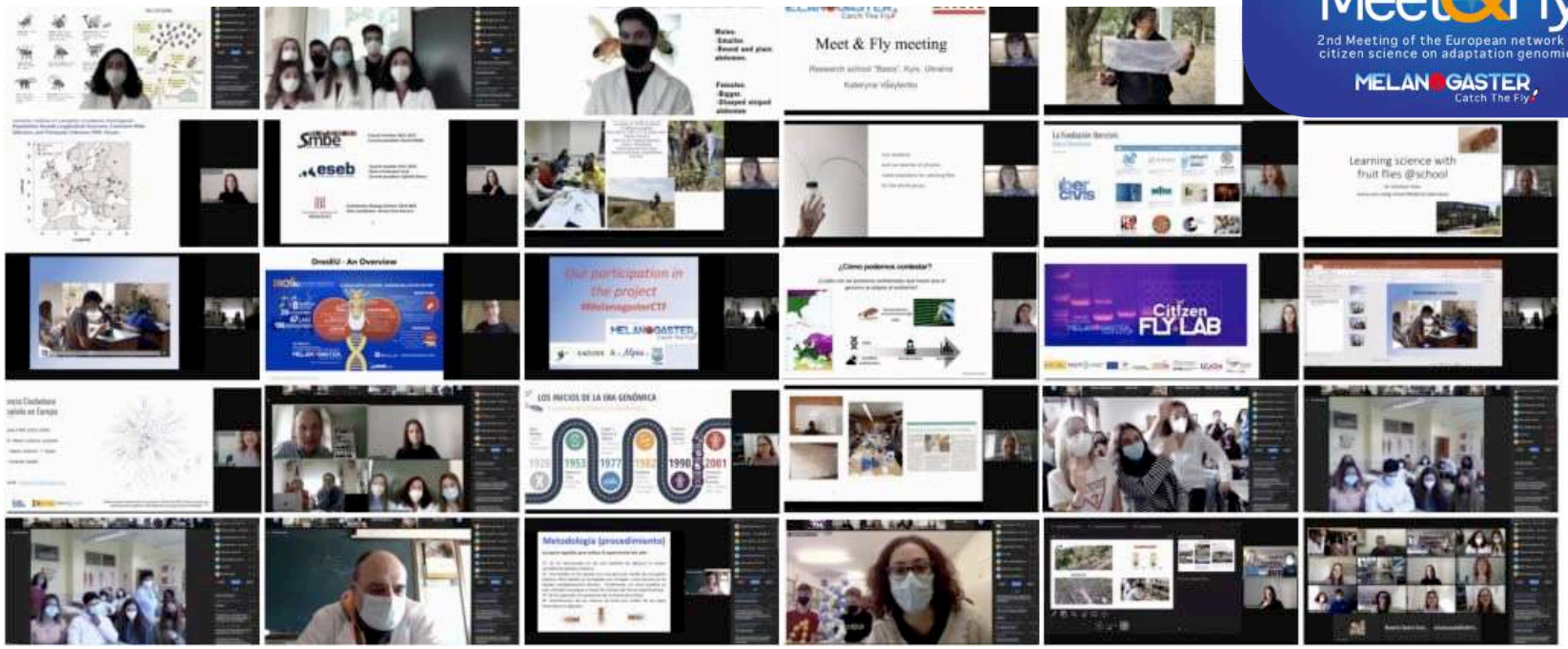


FUNDING ENTITIES:
PARTNERS:
ORGANIZERS:

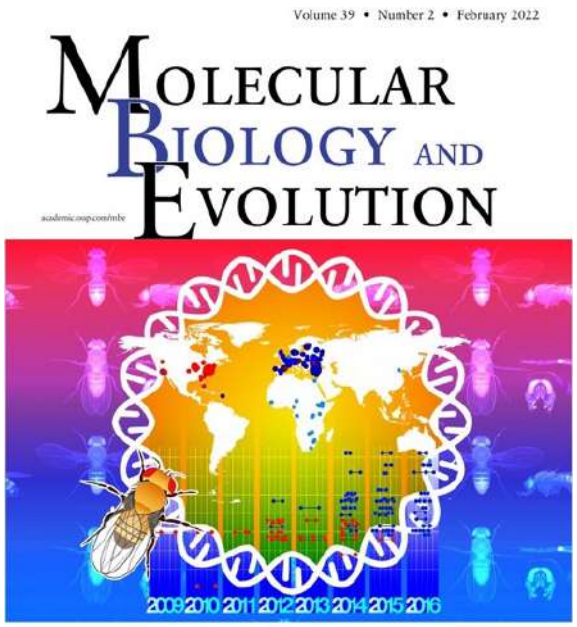
PROJECT ACTIVITIES

7. Teacher participation in scientific meetings

8. Scientist, communicators, teachers and students meeting

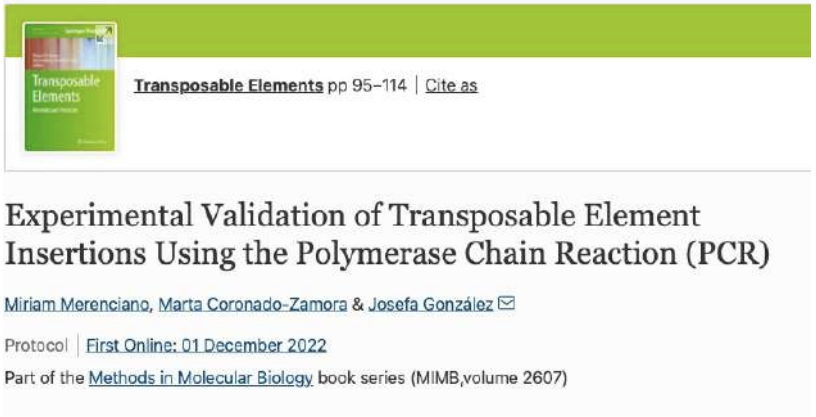


PROJECT OUTCOMES



THE ROYAL SOCIETY

Promoting scientific literacy in Evolution through citizen science



Thanks!

Josefa González, PhD
Scientific direction

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Communications Director

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Scientific support

Irene González
Technological development

Marta Coronado
Scientifc suport

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