

In which target organisms has gene drive development advanced furthest?

Showing research up to 1 March 2024

Here we show target species where a gene drive (GD) or sex ratio distorter (SRD) has been built and is at least partially functional

keys

Why this organism is being targetted

Ag

Impacts on agriculture

HDV

Human disease vector

ISB

Invasive species impacting biodiversity

Sex ratio distorter

SRD

GD

Gene drive

!

Despite no gene drive being developed, these species indirectly become targets due to interbreeding within the complex.

Intended direct effect

M/R

Modification / replacement

?

Not specified

S/E

Suppression / eradication

Every panel represents a project, pointing to its level of technological development.

Main site of research

- ICL Imperial College London
- UCI University of California Irvine
- NRC National Research Council, Terni
- UCSD University of California San Diego
- Pbt Pirbright Insitute
- NCSU North Carolina State University
- FAFU Fuijan Agriculture and Forestry University
- UA University of Adelaide
- CSIRO Commonwealth Scientific and Industrial Research Organisation, Queensland
- USt University of Strasbourg

Technology levels

- 1 - 4

Proposal and preliminary research stages
- 5

Limited proof of concept: the system is to some extent functional but with evident unresolved techncial issues
- 6

Laboratory proof of concept: taking published data at face value, the system works effectively in the laboratory
- 7

Further contained trials
- 8

Scaled up trials for example in large cages
- 9

Experimental releaseases in natural envrionment

