

Ethical aspects of gene drive technology

Claudia I. Emerson, Ph.D.

Research and Innovation for biodiversity: what role for gene drive research?

Online event – Brussels

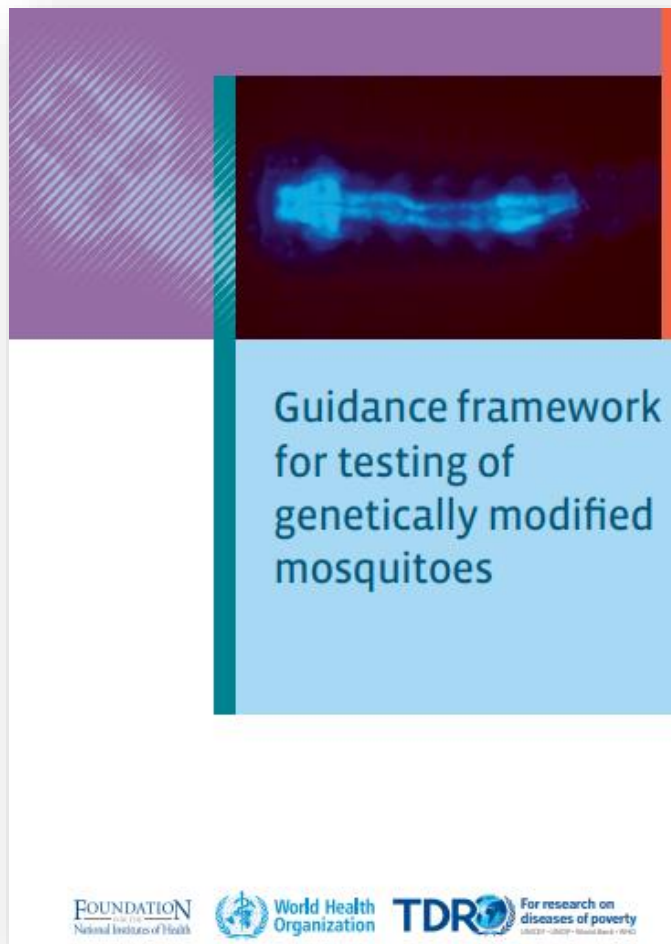
29 October 2020



1. The technology is new, the ethics issues are not

And, we have guidance and other tools to consider the issues

2021 edition is forthcoming!



Am. J. Trop. Med. Hyg., 98(Suppl 6), 2018, pp. 1–49
doi:10.4269/ajtmh.18-0083
Copyright © 2018 by The American Society of Tropical Medicine and Hygiene

Pathway to Deployment of Gene Drive Mosquitoes as a Potential Biocontrol Tool for Elimination of Malaria in Sub-Saharan Africa: Recommendations of a Scientific Working Group†

Stephanie James,^{1*} Frank H. Collins,² Philip A. Welkhoff,³ Claudia Emerson,⁴ H. Charles J. Godfray,⁵ Michael Gottlieb,¹ Brian Greenwood,⁶ Steve W. Lindsay,⁷ Charles M. Mbogo,⁸ Fredros O. Okumu,^{9,10,11} Hector Quemada,¹² Moussa Savadogo,¹³ Jerome A. Singh,¹⁴ Karen H. Tountas,¹ and Yeya T. Touré¹⁵

¹Foundation for the National Institutes of Health, Bethesda, Maryland; ²University of Notre Dame, Notre Dame, Indiana; ³Institute for Disease Modeling, Bellevue, Washington; ⁴McMaster University, Hamilton, Canada; ⁵Oxford University, Oxford, United Kingdom; ⁶London School of Hygiene & Tropical Medicine, London, United Kingdom; ⁷Durham University, Durham, United Kingdom; ⁸Kenya Medical Research Institute, Nairobi, Kenya; ⁹Ifakara Health Institute, Ifakara, Tanzania; ¹⁰University of Glasgow, Glasgow, Scotland; ¹¹University of the Witwatersrand, Johannesburg, South Africa; ¹²Donald Danforth Plant Science Center, Saint Louis, Missouri; ¹³New Partnership for Africa's Development, Ouagadougou, Burkina Faso; ¹⁴Centre for the AIDS Programme of Research in South Africa, Durban, KwaZulu-Natal, South Africa; ¹⁵University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali

Science

Principles for gene drive research

Claudia Emerson, Stephanie James, Katherine Littler and Filippo (Fil) Randazzo

2. Risk/Benefit evaluations need to be comprehensive, fair, and mindful of key commitments



ec.europa.eu

3. The ethical justification for research is its scientific and social value



a global lens matters



The Institute on Ethics & Policy for Innovation is supported by research grants from

BRIGHTER WORLD

BILL &
MELINDA
GATES
foundation

