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June 19th, 2020

Board of Commissioners
Florida Keys Mosquito Control District
503 107th Street (Gulf Side)
Marathon, FL 33050

Dear Commissioners,

We are thankful for your continued commitment to a collaboration with Oxitec. After more than a decade of working together to shape a pilot project in Monroe County, we're looking forward to ensuring you have the information you need to come to a final decision on this project. Indeed, our efforts together are ground-breaking.

As we progress to the next set of steps formalizing a collaboration for the 2020/2021 time period, and in the spirit of ensuring you have all of the information you need, we wanted to provide you with a number of resources in one package. We'll also be available to provide you with any additional materials, should you need them.

Included in this package are the following:

- **Key Oxitec Personnel** - a small selection of individuals who will be working with you on this project
- **June 23rd Workshop Presentation Draft** – this will be updated prior to the meeting, but these slides include the primary themes we will discuss (we may add a few slides to help in adding clarity or for better readability during a live presentation)
 - Brief Oxitec Overview
 - Brief General Technology Overview – high level, but enough to share the nature of the technology
 - Highlights of the EPA's and FDACS EUP Approvals, including:
 - Key findings
 - EPA's technical response to important topics
 - Overview of EPA's responses to specific public comments/inquiries
 - FAQs for topics of interest to Keys residents (this will be condensed for the presentation)
 - Overview of the trial and its design, developed in collaboration with FKMCD staff
- **Regulatory Approvals Resource Document** - this includes links to all of the pertinent EPA, FDACS and other regulatory findings, documents, etc., centralized for your convenience
- **Technical Information on Oxitec's OX5034 Strain**
- **Public Opinion Resources**
- **Key Press Clippings**

We stand ready to answer any additional questions or requests you may have.

In the case it's helpful, we've created a special project website onto which we will post updates, facts and figures and resource documents so that everyone has access to materials pertinent to this effort. You can view that page at www.oxitec.com/florida.

Again, thank you for taking the time to consider advancing this pilot project together.

If you have any questions at all, please do not hesitate to call me directly. Our team and I stand ready to provide you anything you may need.

Yours sincerely,



Grey Frandsen
CEO, Oxitec Ltd.

Oxitec Key Personnel

Updated 19 June 2020

Oxitec is an American-owned company comprised of individuals from 15 countries. Oxitec's team is committed to building trust with its partners and stakeholders and works hard daily to make its technology available to the communities that can benefit most from it.

The following are individuals that will be involved in the pilot project in the Florida Keys. A range of other Oxitec personnel will be involved, but there are some of the faces you'll see routinely.

If you have any questions about our team, our credentials, backgrounds, or other topics, please feel to let us know and we're happy to do our best to answer them.

Grey Frandsen, CEO



Grey Frandsen was appointed the head of Oxitec in December 2017. Prior to this role, Grey served in a number of leadership roles in public and private sectors in the areas of national security and public health. Before and after September 11, 2001, Grey served in the U.S. Government in a range of leadership roles in conflicts and post-conflict stabilization operations around the world. Grey then served on the senior staff of two U.S. Secretaries of State as the first Chief of Staff of the U.S. Government's Office of Stabilization Operations. Grey also served as Senior Foreign Policy Advisor in the United States Senate with responsibility for oversight in areas of global public health, diplomacy, counterterrorism, democracy and governance, and international development. After government service, Grey served as the president of Olfactor Laboratories, Inc., a biotech startup developing a range of

novel vector control technologies funded in part by the U.S. National Institutes of Health (NIH). In 2016, Grey co-founded a new public-private partnership in the British Virgin Islands to combat the spread of vector-borne diseases. During the Zika crisis in the Western Hemisphere, Grey helped stand up the Puerto Rico Vector Control Unit and was an advisor to the U.S. Centers for Disease Control Dengue Branch. In 2017, Grey developed a new policy and engagement framework for the Caribbean Regional Public Health Agency (CARPHA) designed to bolster government resiliency in combating vector-borne diseases. Grey has served on faculty at the U.S. Department of Defense's Uniformed Services University of Health Science and the University of California San Francisco. Grey received his BA at UCLA and an MA at the Johns Hopkins University School for Advanced International Studies (SAIS). In 2000, during his studies at UCLA, Grey co-founded an American technology company that provides cloud-based services for governments, non-profits, charities, NGOs, international organizations and advocacy organizations.

Kelly Matzen, Head of R&D



Dr. Kelly Matzen is Oxitec's Head of Research, Development and Operations. Kelly is responsible for the R&D division that produces and tests Oxitec's genetically modified insects, delivering new products into the commercial pipeline. Her team develops both the underlying genetics and engineering solutions required to scale insect production. She is also responsible for managing Oxitec's global operations, which includes insect manufacturing and quality in the UK and Brazil.



Kelly has been with Oxitec eight years, during which time she has held a range of leadership roles throughout Oxitec's R&D and operations divisions, giving her a unique perspective and ability to drive the business forward. She was a key member of the team that brought the OX513A mosquito technology to scale in the world-first GM mosquito factory in Piracicaba, Brazil. She is leading the transition to the 2nd generation technology. Earlier in her career at Oxitec, Kelly served as technical lead during the genesis of a key collaborative partnership in agriculture and remains responsible for establishing scale production of those insects.

Kelly's background is in the technical development of genetically modified insects, which began during her PhD program at the California Institute of Technology where she earned her doctorate in Biochemistry and Molecular Biophysics in 2012. She earned her BS in chemistry at Boston College in 2005. She has published peer reviewed articles and is a named inventor on Oxitec patents.

Meredith Fensom, Head of Public Affairs



Meredith leads Oxitec's communications, government affairs and stakeholder engagement worldwide. Meredith's positions before joining Oxitec include serving as the Intrexon Corporation (renamed Precigen, Inc. in February 2020) Head of Global Public Affairs, Biotechnology Innovation Organization (BIO) founding Director for International Affairs; manager of an agricultural trade business and policy consulting firm; Special Assistant in the Office of the U.S. Trade Representative's Office of the Americas; and founding Director of the University of Florida's Law & Policy in the Americas Program. Meredith has litigated matters of international law and was a Fulbright Scholar in Santiago, Chile, where she assisted in the design and evaluation of Chile's judicial reform process. She was also awarded CIBER and FLAS Fellowships to

Brazil. She has served as a consultant to various multilateral institutions including the Inter-American Development Bank, the United Nations' International Trade Centre and the World Bank. Meredith received a J.D. from the University of Florida Levin College of Law, a Master's Degree from the University of Florida Center for Latin American Studies, an undergraduate degree from Furman University and is pursuing a Global Executive MBA with INSEAD in France. She is fluent in Spanish, conversant in Portuguese and has a basic understanding of French.

Benjamin Sperry, Field Operations Manager



Benjamin has 20 years' experience in leading community focused initiatives including 15 years in mosquito control in both the public and private sectors. He has a record of driving progress by promoting new technologies, tools and methods. His diverse professional experience in the field, lab, and with community engagement is augmented by a Master's in Public Health from the University of Utah and an MSc in Medical Entomology from the London School of Hygiene and Tropical Medicine. As a Field Operations Manager for Oxitec Ltd. Benjamin will be working in tandem with local partners to ensure technical and community success with Oxitec's 2nd Generation Friendly™ mosquito.

Kevin Gorman, Head of Field Operations



Kevin has over 25 years' experience as an agricultural and public health entomologist, with a career focus on integrated and sustainable pest management practices. Previously a Project Lead for regulatory efficacy trials (ORETO and GEP) and a public-sector academic, he has extensive line management and project management experience. He has been the Technical Lead in Central America and the Indian sub-continent for insect control programs using Oxitec's genetic technologies, with emphasis on the mosquito vectors responsible for transmission of dengue, chikungunya, and Zika viruses. Kevin has regulatory and business development experience, and his current role is Head of Field Operations for Oxitec. He has authored over 70 publications and has served on the editorial board for two leading international journals.

Nathan Rose, Head of Regulatory Affairs



Nathan is responsible for Oxitec's global regulatory efforts and supports Oxitec's R&D, Field and Business Development teams across the Oxitec global portfolio. He joined Oxitec as an R&D group leader in 2016 and, before that, had a career as an academic researcher at the University of Oxford, where he worked on the design of drugs targeting epigenetic enzymes involved in human cancers, where his research led to over 30 scientific publications. He has an MSc in Chemistry from Rhodes University in South Africa, and a DPhil in Chemical Biology from the University of Oxford.

FKMCD Workshop



Introductions – Our Team With You Today



Grey Frandsen
CEO of Oxitec



Kevin Gorman, PhD
Head of Field
Operations



Meredith Fensom
Head of Public Affairs



Kelly Matzen, PhD
Head of R&D



Nathan Rose, PhD
Head of Regulatory
Affairs



Benjamin Sperry
Field Operations
Manager





Florida Keys & Oxitec

We are pleased to be celebrating 10+ years of collaboration with the FKMCD to introduce Oxitec's mosquitoes to the Florida Keys.

Agenda:

- About Oxitec
- Overview of Oxitec's Technology
- Overview of OX5034
- Overview of Oxitec & Florida Keys Pilot Project
- Regulatory Update (EPA, State of Florida Approvals)
- FAQs
- Closing

Our Mission

To improve lives and livelihoods by developing safe, environmentally sustainable and highly effective solutions to control disease-transmitting and crop-destroying insects.



After spinning out of Oxford University in 2002, development of Oxitec's Friendly™ technology is the result of strong public-private partnerships and collaborations over 18 years in multiple countries.

- 4 Research Universities
- 10+ Governments & International Orgs
- Global Foundations
- 200+ Scientists Globally
- 100+ Scientific Studies
- 4 Research Institutes
- 10+ Civil Society Organizations















Oxitec's Technology Platform Overview

PLATFORM FEATURES

- Targeted, precise pest control
- Safe & non-toxic
- Non-allergenic
- Non-persistent
- Environmentally friendly
- Built-in biosecurity
- No effect on non-target species
- Demonstrated field effectiveness
- Potential to reverse resistance to traditional pest control tools
- High levels of public acceptance
- Easy tracking with fluorescent marker
- No impact to crops
- No radiation or introduced bacteria used
- Does not affect grower cultivation practices
- Potential synergies with other pest control methods

OXITEC'S INSECT PROGRAMS

PUBLIC HEALTH	PROBLEM		AGRICULTURE	PROBLEM	
	<i>Aedes aegypti</i>	<i>Dengue, Zika, chikungunya; current tools are under strain</i>		<i>Fall Armyworm</i>	<i>80+ crops; resistance emerging to existing tools</i>
	<i>Aedes albopictus</i>	<i>Dengue, Zika, chikungunya; current tools are under strain</i>		<i>Soybean Looper</i>	<i>Soybean; over-reliance on traditional management tools</i>
	<i>Anopheles stephensi</i>	<i>Malaria; invasive, current tools are under strain</i>		<i>Medfly</i>	<i>Citrus/pome/stone fruit; pressure to reduce insecticide applications</i>
	<i>Anopheles albimanus</i>	<i>Malaria; current tools are under strain</i>		<i>Diamondback Moth</i>	<i>Brassica crops; resistant to most insecticides</i>
				<i>Pink Bollworm</i>	<i>Cotton; resistant to some biotech cotton</i>
				<i>Drosophila suzukii</i>	<i>Soft fruits; highly invasive and difficult to control</i>



Scientific Excellence: 100+ Peer-Reviewed Scientific Studies Published

Research Article

Received: 11 August 2015 | Revised: 05 September 2015 | Accepted article published: 05 September 2015 | Published online in Wiley Online Library: 16 October 2015
 (wileyonlinelibrary.com) DOI: 10.1002/ps.4151

Short-term suppression of *Aedes aegypti* using genetic control does not facilitate *Aedes albopictus*

Kevin Gorman,^{a*} Josué Young,^b Lleya Pineda,^b Ricardo Márquez,^b Nestor Sosa,^b Damaris Bernal,^b Rolando Torres,^b Yamilitzel Soto,^b Renaud Lacroix,^a Neil Naish,^a Paul Kaiser,^a Karla Tepedino,^a Gwilym Phillips,^a Cecilia Kosmann^a and Lorenzo Cáceres^b

PLOS | NEGLECTED TROPICAL DISEASES

RESEARCH ARTICLE

Dispersal of Engineered Male *Aedes aegypti* Mosquitoes

Peter Winskill^{1,2*}, Danilo O. Carvalho^{3*}, Margareth L. Capurro^{4,5}, Luke Alphey^{2,6,7}, Christl A. Donnelly^{1*}, Andrew R. McKemey^{2*}

PLOS | NEGLECTED TROPICAL DISEASES

RESEARCH ARTICLE

Assessment of the Impact of Potential Tetracycline Exposure on the Phenotype of *Aedes aegypti* OX513A: Implications for Field Use

Zoe Curtis^{1,2*}, Kelly Matzen¹, Marco Neira OviedoTM, Derric Nimmo¹, Pamela Gray¹, Peter Winskill^{1,2}, Marco A. F. Locatelli^{3,4}, Wilson F. Jardim^{3,4}, Simon Warner¹, Luke Alphey^{1,5*}, Camilla Beech¹

nature biotechnology

Correspondence | Published: 10 September 2012

Successful suppression of a field mosquito population by sustained release of engineered male mosquitoes

Angela F Harris, Andrew R McKemey, Derric Nimmo, Zoe Curtis, Isaac Black, Siân A Morgan, Marco Neira Oviedo, Renaud Lacroix, Neil Naish, Neil I Morrison, Amandine Collado, Jessica Stevenson, Sarah Scaife, Tarig Dafa'alla, Guoliang Fu, Caroline Phillips, Andrea Miles, Norzahira Raduan, Nick Kelly, Camilla Beech, Christl A Donnelly, William D Petrie & Luke Alphey

SCIENTIFIC REPORTS

OPEN **Exposure to genetically engineered olive fly (*Bactrocera oleae*) has no negative impact on three non-target organisms**

Received: 16 May 2017 | Accepted: 30 August 2017 | Published online: 13 September 2017

Thea Marubbi¹, Clare Cassidy^{1,3}, Esther Miller¹, Martha Koukidou¹, Enca Martin-Rendon¹, Simon Warner¹, Augusto Loni² & Camilla Beech^{1,4}

PLOS | NEGLECTED TROPICAL DISEASES

RESEARCH ARTICLE

Suppression of a Field Population of *Aedes aegypti* in Brazil by Sustained Release of Transgenic Male Mosquitoes

Danilo O. Carvalho^{1,2*}, Andrew R. McKemey^{1,3*}, Luiza Garziera³, Renaud Lacroix¹, Christl A. Donnelly⁴, Luke Alphey^{1,5,6}, Aldo Malavasi³, Margareth L. Capurro⁷

PNAS

Proceedings of the National Academy of Sciences of the United States of America | www.pnas.org

Analyzing the control of mosquito-borne diseases by a dominant lethal genetic system

Michael P. Atkinson, Zheng Su, Nina Alphey, Luke S. Alphey, Paul G. Coleman, and Lawrence M. Wein

PNAS published online May 22, 2007; doi:10.1073/pnas.0610685104

BMC Biology

Research article

Late-acting dominant lethal genetic systems and mosquito control

Hoang Kim Phuc¹, Morten H Andreasen¹, Rosemary S Burton¹, Céline Vass¹, Matthew J Epton¹, Gavin Pape¹, Guoliang Fu², Kirsty C Condon^{1,2}, Sarah Scaife², Christl A Donnelly³, Paul G Coleman^{3,4}, Helen White-Cooper¹ and Luke Alphey^{*1,2}

Open Access

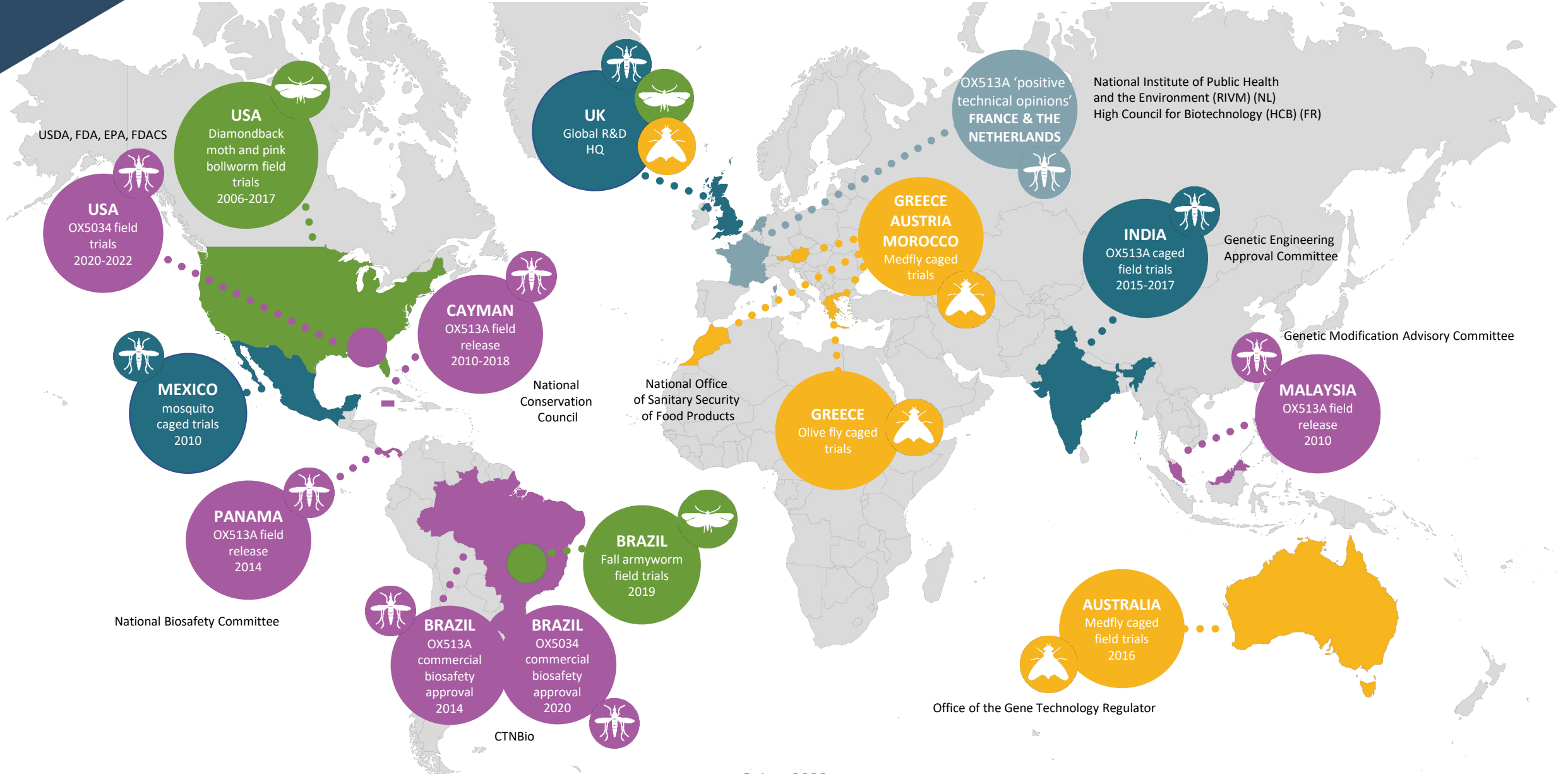
Pest control and resistance management through release of insects carrying a male-selecting transgene

Tim Harvey-Samuel, Neil I. Morrison, Adam S. Walker, Thea Marubbi, Ju Yao, Hilda L. Collins, Kevin Gorman, T. G. Emyr Davies, Nina Alphey, Simon Warner, Anthony M. Shelton and Luke Alphey

BMC Biology 2015 13:49
<https://doi.org/10.1186/s12915-015-0161-1> | © Harvey-Samuel et al. 2015
 Received: 12 May 2015 | Accepted: 23 June 2015 | Published: 16 July 2015



Global Regulatory Approvals, Trials and Positive Technical Opinions



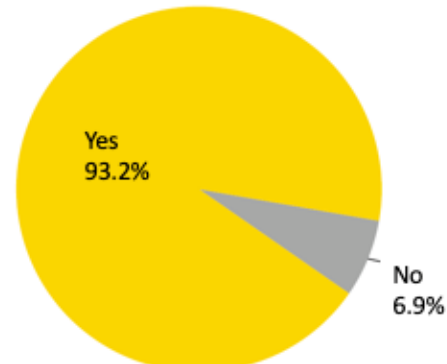
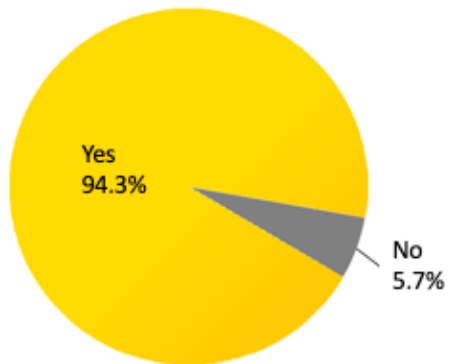
Long History of Strong Public Acceptance and Community Partnerships



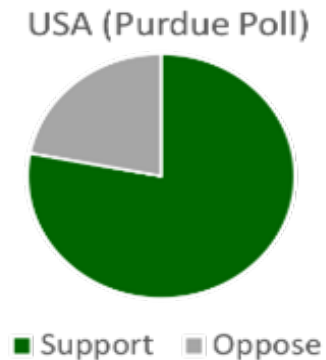
2019 Survey on OX5034 in Brazil

US National Survey on Oxitec Mosquitoes

94%
would like the
Friendly project to
continue



93%
would like to see the
project expanded



A public survey of 1,000 people carried out in September 2019 in the city of Indaiatuba.

A public survey of 964 people in the US

We Work to Build Genuine Partnerships with Communities



Let's Keep India Ahead

Gangabhai Bhikaji Investment and Trading Limited (GBIT) and Oxitec are working in partnership to bring 'Friendly' *Aedes aegypti* to India, to help fight the mosquito that transmits dengue, chikungunya and Zika.

WHY IS THIS PROJECT IMPORTANT?
India invests significant resources in fighting the *Aedes aegypti* mosquito that transmits dengue, chikungunya and Zika. However, current tools are insufficient to control this mosquito and stop diseases from spreading. Many in our country suffer from dengue and chikungunya every year. The 'Friendly' *Aedes aegypti* is an additional tool that can help control the spread of disease-carrying mosquitoes.

HOW DOES FRIENDLY™ AEDES AEGYPTI WORK?
Genetically engineered self-limiting male *Aedes aegypti* mosquitoes, which cannot bite or transmit disease, are released to mate with local female *Aedes aegypti*. Their offspring, before being able to reproduce, will have a reduced ability to reproduce. With repeated releases, the mosquito population is reduced. This is an environmentally-friendly and safe solution.

ECO-FRIENDLY
We have been conducting contained studies evaluating the 'Friendly' *Aedes aegypti* at our research centre in Doodhgaon since 2011. These were approved by the Ministry of Science and Technology of the Government of India.

WHAT IS THE NEXT STEP?
We are evaluating 'Friendly' *Aedes aegypti* in outdoor cages. Open field trials will only occur following regulatory permission from the Government of India. Before field trials begin, we will inform the local communities through engagement activities.

WHERE HAVE FRIENDLY™ AEDES AEGYPTI BEEN USED?
The 'Friendly' *Aedes aegypti* mosquitoes have already been used successfully in field trials in Brazil, Panama and the Cayman Islands. In each of these projects, releases of 'Friendly' *Aedes aegypti* reduced the wild populations by more than 90 percent.

LEARN MORE ABOUT ECO-FRIENDLY MOSQUITO CONTROL IN INDIA
GBIT: info@gbit.com | +91 902 262671 | Main: Air-qualified Road, Doodhgaon, PO Box 1, Jharkhand
Oxitec: info@oxitec.com | +55 11 5012 1212 | Oxitec, S.A. | Av. Paulista, 1518 - Bela Vista, São Paulo, SP 01314-900, Brazil



★ VIDA E + MORTE DO AEDES DO BEM!

O mosquito geneticamente modificado desenvolvido pela Oxitec, o chamado **Aedes do Bem**, nasce e cresce em uma fábrica. Após ser liberado no ambiente, ele cruza com fêmeas selvagens do **Aedes aegypti**. Os descendentes desse cruzamento morrem antes de chegar à fase adulta. E assim, em poucos meses, a população de **Aedes aegypti** selvagem da região é reduzida em até 99%. Confira o passo a passo da breem, preem, herética, vida do **Aedes do Bem**.

NA FÁBRICA
O **Aedes do Bem** é desenvolvido geneticamente no laboratório de Oxitec. A única diferença é que o **Aedes do Bem** tem dois genes que o tornam incapaz de transmitir doenças.

OS OVOS
Para ter um filho, o macho precisa de uma fêmea. Assim, quando o **Aedes do Bem** cruza com uma fêmea selvagem, os ovos produzidos são geneticamente modificados para não transmitir doenças.

NA VAN
A produção de mosquitos é feita em uma fábrica. A produção de ovos é feita em uma fábrica. A produção de ovos é feita em uma fábrica. A produção de ovos é feita em uma fábrica.

NO CAMPO
Assim que sai da van, o **Aedes do Bem** encontra fêmeas selvagens para cruzar.

4 MILHÕES
A produção de ovos é feita em uma fábrica. A produção de ovos é feita em uma fábrica. A produção de ovos é feita em uma fábrica.

400 MIL OVOS
Em uma semana, uma única fêmea pode produzir até 400 mil ovos de **Aedes do Bem**.

Resultados
A quantidade de **Aedes aegypti** selvagem na região é reduzida em até 99%.





OXITEC

Florida Keys & Oxitec

Technology Overview

Documentation, resources, references, and other information are available at oxitec.com/florida



Oxitec's *Aedes aegypti* Mosquito Technology ("OX5034")

OXITEC'S 2nd GENERATION *AEDES AEGYPTI*



TARGETED SUPPRESSION ✓

MALE-ONLY RELEASES
(male mosquitoes do not bite) ✓

SAFE, NON-TOXIC,
NON-ALLERGENIC ✓

TRACEABLE IN
THE FIELD ✓

OXITEC'S MALE MOSQUITOES CARRY ONLY TWO SAFE INTRODUCED GENES

1

MALE-SELECTING SELF-LIMITING GENE

Non-toxic, non-allergenic gene product (tTAV protein)

After Oxitec males mate with wild-type females, the progeny receive a copy of a self-limiting gene that prevents females from developing into adults

MANUFACTURING



- Efficient production
- No sex sorting
- Male-only production
- Egg releases and release devices enabled

DEPLOYMENT



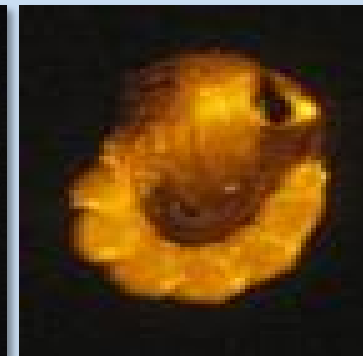
- 'Just-add-water' egg device
- Suppresses target mosquitoes
- Multi-generational suppression
- Gene is self-limiting in environment

2

SIMPLE MARKER GENE

Easy track-and-trace in the field

Non-toxic, non-allergenic gene product (DsRed2 protein)

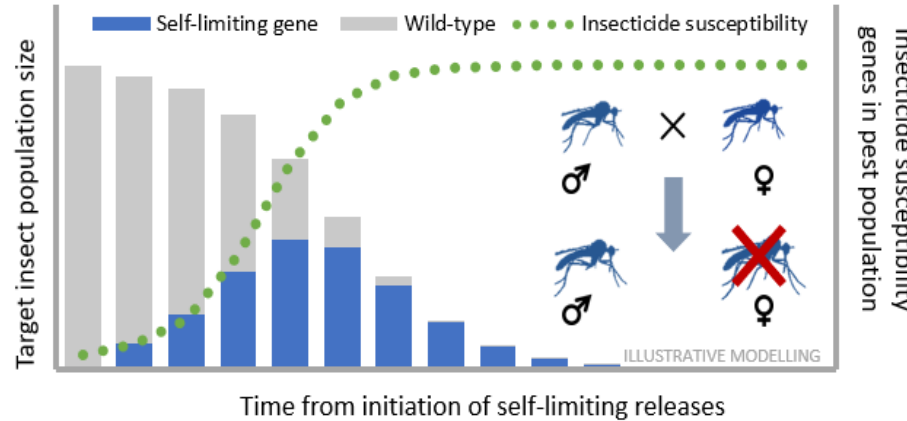




Key Performance and Operational Benefits of OX5034

1 TARGETED PEST SUPPRESSION

- Significant pest suppression
- Multi-generation suppression
- Fully self-limiting
- Proven effective in [pilot studies](#)



2 ENVIRONMENTALLY FRIENDLY

- Safe, non-toxic
- No impact on environment
- No impact on off-target species
- No persistence in environment

3 EFFICIENT MFG PRODUCTION

- Male-only field release
- No sex-sorting required
- No factories required
- No female release
- No complex adult releases



4 EASY DEPLOYMENT & SCALABILITY

- Easy deployment
- Just-add-water
- No special tools
- Rapid placement
- 3-month shelf-life
- Easy shipping/distribution

¹Harris et al. 2012 *Nature Biotech*; Ant et al. 2012 *BMC Biol*; Leftwich et al. 2014 *Proc Roy Soc B*; Carvalho et al. 2015 *PLoS Negl Trop Dis*; Gorman et al. 2016 *Pest Man Sci*.

²Harvey-Samuel et al. 2014 *Evol Appl*.

³Alphey et al. 2007 & 2009 *J Econ Entomol*.



Decade of Performance, Partnerships & Demonstrated Safety



SAMPLE DEPLOYMENT PROGRAMS, 2010 – 2020

Aedes aegypti peak suppression measured in each program compared to control sites

Juazeiro, Bahia
2010-2012

93%¹

Juazeiro, Bahia
2012-2013

96%²

Jacobina, Bahia
2014

92%³

Nuevo Chorrillo, Panama
2014

93%³

Piracicaba, São Paulo
2015-2019

Successful 4-Year Pilot

Piracicaba, São Paulo
2016-2018

Successful 65,000-Person Program

First OX5034 Adult Biosafety Pilot Brazil
2018-2019

96%⁴

1st OX5034 Product Pilot Indaiatuba, São Paulo
In progress, 2019/2020

2021

2020-21

US OX5034 Pilot

OX5034 Product Pilot (10k person) Indaiatuba 2021



1st GENERATION *Aedes aegypti* DEPLOYMENT PROGRAMS

OX5034 DEPLOYMENT PROGRAMS

There are a number of promising new technologies to combat *Aedes aegypti*. Oxitec's technology has unique advantages relating to performance, scalability and cost-effectiveness.

Feature	Benefit	Wolbachia Suppression	Sterile Insect Technique	Oxitec's 2 nd Generation (OX5034)
100% male-only releases (biosafety)	<i>Biosafety / no biting</i>	●	●	●
Multi-generational performance	<i>Cost effectiveness per mosquito</i>	●	●	●
Mini-capsule egg-based deployment	<i>Major cost reductions & simplicity of operations</i>	●	●	●
Potential to restore efficacy of insecticides	<i>Supports other tools</i>	●	●	●



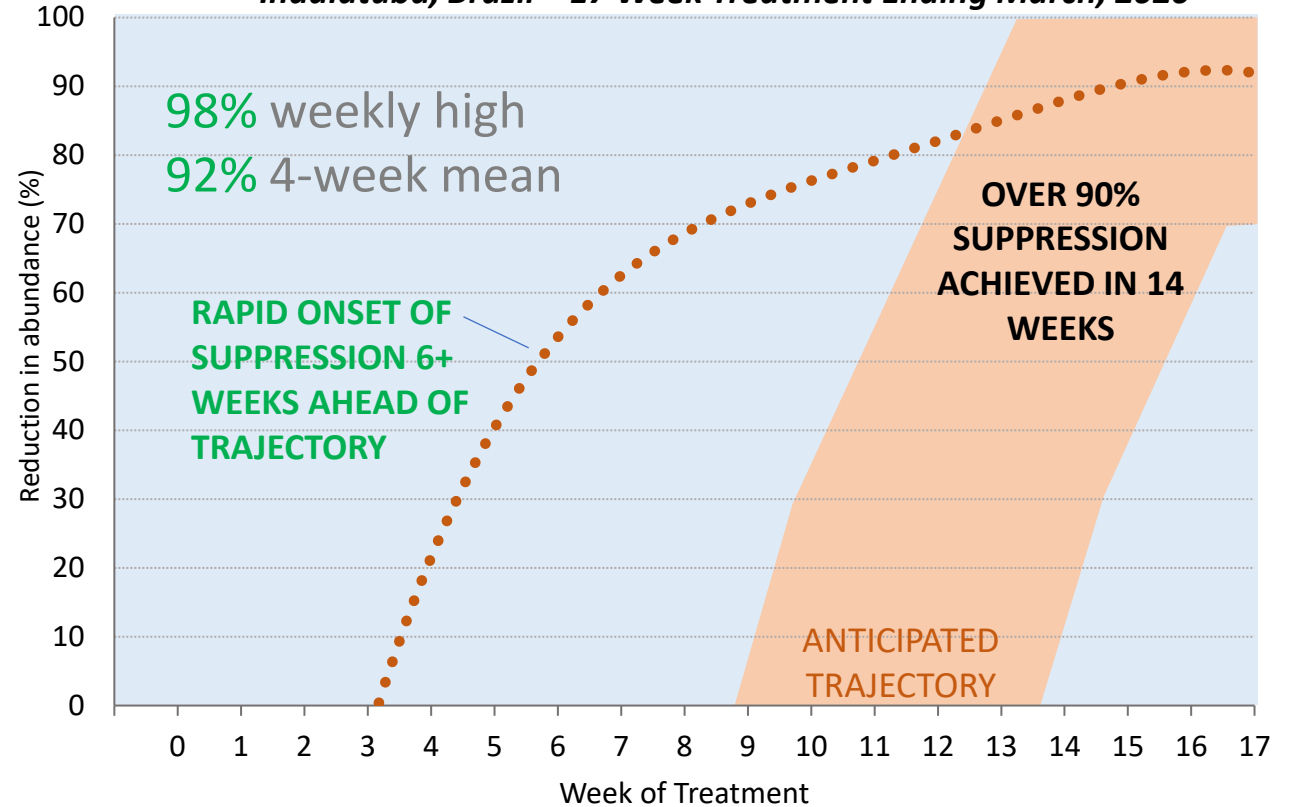
OXITEC

OX5034 Mini-Capsule Pilot Successful

Results:

- ✓ 100% safe – no unintended impacts
- ✓ 100% males – no female release
- ✓ 100% self-limiting – no persistence
- ✓ Significant suppression (see graph)
- ✓ 90% reduction in operations
- ✓ 94%+ public acceptance

Pilot Project #1 for Mini-Capsule Product – 1,000 Person Area
Indaiatuba, Brazil – 17 Week Treatment Ending March, 2020



6
Weeks

Faster to Suppression
than OX513A

90%

More Efficient
Production &
Deployment

Proposed Small Pilot Project with FKMCD

With FKMCD, FDACS and EPA approval, Oxitec will carry out a small pilot project to demonstrate performance and safety of Oxitec's OX5034 *Aedes aegypti* technology in the Keys.



Illustrative design similar to what will be piloted.

Four Project Components

1. Community Engagement
2. Mark-Release-Recapture
3. Project A: Single-point Releases
4. Project B: Area-wide Releases

Safe &
Non-Toxic

~130
Boxes
Placed

~28
Weeks

0
Females
Released

Pilot Project Design in Collaboration with FKMCD

Project Design Elements

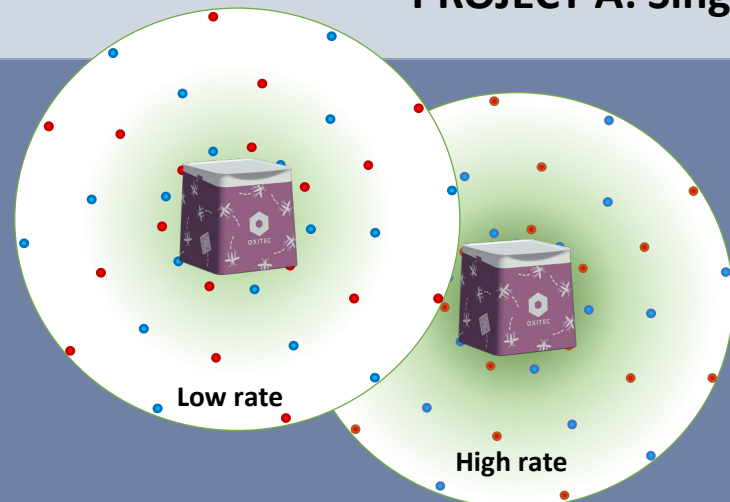
1. Single-point release with capture of males and offspring;
2. Multi-point release with capture of offspring;
3. Replicated and compared to untreated areas.
4. Locations TBD with FKMCD
5. Timing: 2020-2021

Evaluation Elements

1. Male dispersal and longevity;
2. Residual activity (persistence);
3. Multi-point release with capture of offspring and evaluation of cryptic breeding sites;
4. Efficacy and coverage



PROJECT A: Single-Point Releases



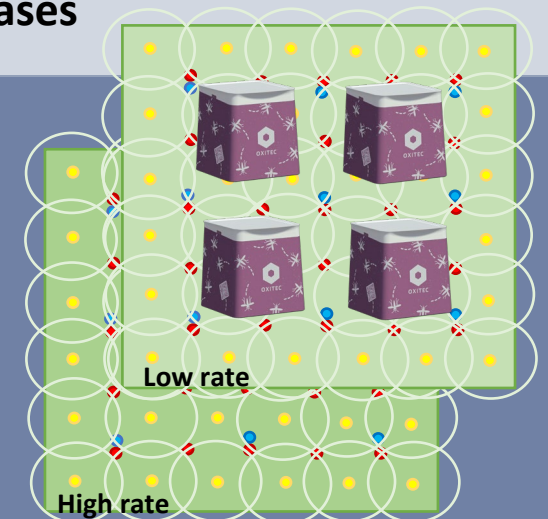
Project A:

- ~12 weeks
- Single-point releases
- Evaluate release rates
- Demonstrate effectiveness in small areas

PROJECT B: Area-wide Releases

Project B:

- ~16 weeks
- Area-based releases
- Evaluate release rates
- Demonstrate effectiveness area-wide





OXITEC

Florida Keys Community Engagement

Hand-in-hand with the FKMCD, Oxitec has been engaging and communicating openly with communities in the Florida Keys for more than 10 years.

Oxitec's Approach:

- Full coordination with FKMCD
- Transparency and robust information sharing
- Listening and learning from communities and stakeholders
- Inclusive engagement programs specific to stakeholder groups
- Broad view of stakeholders – citizens, communities, businesses, experts
- Multiple avenues for anyone to contact and engage with us



KEYS WEEKLY

Let's Keep Florida Ahead

For over 60 years, South Florida has been fighting the non-native population of *Aedes aegypti* mosquitoes, which carry and transmit harmful diseases, including Zika and dengue.

THE NEED FOR MORE EFFICIENT TOOLS
Present methods to control the *Aedes aegypti* population are only 50% effective, at best. Oxitec has been working with *Aedes aegypti* for more than a decade, educating communities about its solution to control the spread of disease-carrying mosquitoes.

OXITEC RELEASES MALE MOSQUITOES, WHICH DO NOT BITE OR TRANSMIT DISEASE.

A PRECISE, INNOVATIVE SOLUTION FOR MOSQUITO CONTROL
Oxitec's male mosquitoes have one job: seek out and mate with females, which bite and carry disease. These males pass a gene to their offspring, causing them to die before reaching adulthood, thereby reducing the total population of *Aedes aegypti*.

OXITEC MALE MOSQUITOES MATE WITH BITING FEMALES

ECO-FRIENDLY
OXITEC MOSQUITOES MAY LIMIT THE NEED FOR CHEMICAL INSECTICIDES
This helps local species like butterflies and bees to thrive.

UNPARALLELED RESULTS
In efficacy trials over the past decade, Oxitec's male mosquitoes have suppressed dangerous populations of *Aedes aegypti* by more than 90 percent.

The US FDA released a Final Finding of No Significant Impact on Oxitec's solution for an investigational trial in the Florida Keys. The finding concludes a trial will not result in a significant impact on the environment.

Location	Result
CAJAHARI ISLANDS	96%
PEDRA BRANCA	92%
PANAMA	93%
ITABERABA	93%
MANOCARU	99%
BRAZIL	

Learn more about eco-friendly mosquito control in Florida
 oxitec.com | info@oxitec.com | @oxitec | facebook.com/oxitec
 SOURCES: Center for Disease Control | World Health Organization | Florida Department of Health | U.S. Food & Drug Administration Center for Veterinary Medicine



Regulatory Approvals Overview

U.S. Approvals and Endorsements of Oxitec Technology

Exhaustive review by five U.S. government agencies over 14 years



USG Changes Federal Jurisdiction

2006 ●

Arizona

Approvals for agricultural insects

2017 ●

New York

2016 ●

FDA issues Finding of No Significant Impact for OX513A

2020 ●

EPA approves EUP including U.S. CDC Scientific Review for OX5034

2020 ●

FDACS approves Deployment Permit for OX5034



Approval of Oxitec's EUP

“...after extensive evaluation of the best available science and public input, the U.S. Environmental Protection Agency (EPA) has granted an experimental use permit (EUP) to Oxitec Ltd.”
([OPP Update](#))



“EPA anticipates that this could be an effective tool to combat the spread of certain mosquito-borne diseases like the Zika virus in light of growing resistance to current insecticides.”

“...only male mosquitoes will be released into the environment and as they do not bite people, they will not pose a risk to people.”

“It is also anticipated that there would be no adverse effects to animals, such as bats and fish, in the environment.”



Overview of EPA’s Review & Approval

Key Elements:

- 14-month in-depth process
- Exhaustive scientific review
- Risk assessment
- Multi-agency support
- Public comment responses

By the Numbers:

- 70+ documents submitted
- 25 commissioned studies
- 4,500+ pages, including 2,500+ pages of scientific peer-reviewed literature



Data Requirements Fulfilled by Oxitec (partial list)

Environmental Assessments:

- Fish
- Birds
- Mammals
- Plants
- Aquatic Invertebrates
- Insects
- Endangered Species

Health Assessments:

- Trait Penetrance
- Oral Toxicity
- Inhalation Toxicity
- Ocular Toxicity
- Dermal Toxicity
- Allergenicity
- Vector Competence

Mosquito Characterization and Performance:

- Insecticide Susceptibility
- Trait Penetrance
- Tetracycline Response
- Stability of Genetic Traits
- Trait Persistence
- Field Data (Brazil)
- Protein Stability
- Arbovirus Screening
- Introgression Analysis
- Complete SOPs
- Analytical Methodologies



State of Florida Departments/Bureaus Unanimously Approve Permit



EUP Approved By:

- ✓ Florida Department of Agriculture and Consumer Services
- ✓ Florida Department of Environmental Protection (FDEP)
- ✓ Florida Fish and Wildlife Conservation Commission (FWC)
- ✓ Bureau of Inspection and Incident Response (BIIR)
- ✓ Florida Department of Health (DOH)
- ✓ Bureau of Agricultural Environmental Laboratories (BAEL)
- ✓ Bureau of Chemical Residue Laboratories (BCRL)
- ✓ Bureau of Scientific Evaluation and Technical Assistance, Scientific Evaluation Section (SES)



Topic

EPA’s Findings

Human Health

✓ No risk to human health from OX5034 male mosquitoes.

(EPA Human Health and Environmental Risk Assessment:
<https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0359>)

Environment

✓ No risk to the environment, including endangered species.

(EPA Human Health and Environmental Risk Assessment:
<https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0359>)

Trial Scope

✓ Two years of releases authorized, with weekly monitoring system in place.

(EPA EUP Issuance Letter:

<https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0353>)

Topic

EPA's Response

- | | |
|---|--|
| ❑ Tetracycline | ✓ <i>“negligible risk that testing of OX5034 mosquitoes would spread antibiotic resistant bacteria in the US environment”</i>

<p style="text-align: right;">(p75-76, Response to Comments)</p> |
| ❑ Off-target Impacts | ✓ <i>“no adverse effects are anticipated for nontarget organisms as a result of the experimental permit to release OX5034 mosquitoes”</i>

<p style="text-align: right;">(p 49, EPA Human Health and Environmental Risk Assessment)</p> |
| ❑ Endangered Species | ✓ <i>“a 'No Effect' determination is also made for direct and indirect effects to federally listed endangered and threatened species, and for their designated critical habitats”</i>

<p style="text-align: right;">(p 49, EPA Human Health and Environmental Risk Assessment)</p> |
| ❑ GM mosquito survival in the environment | ✓ <i>“introgression of OX5034 strain genetics into the local wild Ae. aegypti mosquito population is likely to occur during releases of OX5034; however, the risk resulting from such introgression is negligible”</i>

<p style="text-align: right;">(p134, Response to Comments)</p> |



Misconceptions

Documented Facts

❑ Spread of tetracycline-resistant bacteria

✓ Tetracycline will not be used to rear OX5034 male mosquitoes in Florida, and EPA and FL state agencies found negligible risk of spreading antibiotic-resistant bacteria. (p75-76, EPA Response to Comments)

❑ Oxitec's OX513A EUP application rejected

✓ The EPA did not reject any Oxitec application; Oxitec withdrew its OX513A application to focus on the 2nd Generation *Aedes aegypti*, OX5034.

❑ FKMCD rejected OX513A project in 2016

✓ Not true. FKMCD approved an investigational agreement 2016 <http://keysmosquito.org/wp-content/uploads/2017/01/FKMCD-Board-Approves-Oxitec-Investigational-Agreement.pdf>

❑ “Hybrid vigor”

✓ *“there is no indication that matings between OX5034 mosquitoes and local mosquitoes would result in hybrid vigor”* (p 41, EPA Human Health and Environmental Risk Assessment)



OXITEC

Florida Keys & Oxitec

FAQs

Documentation, resources, references, and other information are available at oxitec.com/florida



What are the risks if a female Oxitec mosquito bites someone?

0%.

There will be no Oxitec female mosquitoes and thus no risk.

We release only male mosquitoes because the Self-Limiting gene prevents females from surviving in the pre-release production stage.

Oxitec male mosquitoes are safe and non-toxic.





Are Self-Limiting mosquitoes an environmentally sustainable control tool?

Yes.

Self-Limiting mosquitoes work by finding and mating with wild *Aedes aegypti* females and the suppression effect is specifically targeted to this species of mosquito. This specificity leaves non-target species, such as bees and butterflies, unharmed.



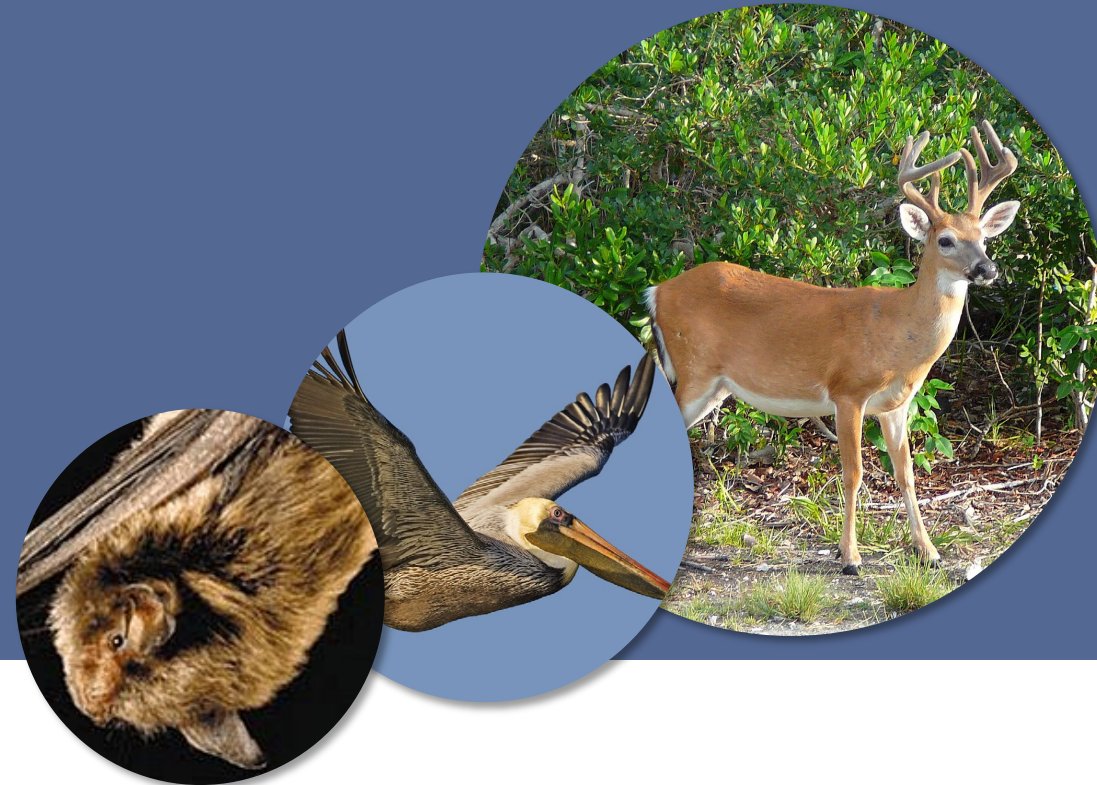


FAQ About Oxitec's OX5034 Mosquitoes

Will Oxitec mosquitoes harm birds, bees, bats, fish, turtles, or other wildlife?

No.

The EPA and State of Florida confirmed this, and Oxitec has carried out exhaustive research (part of submissions made available to the EPA) on this topic.

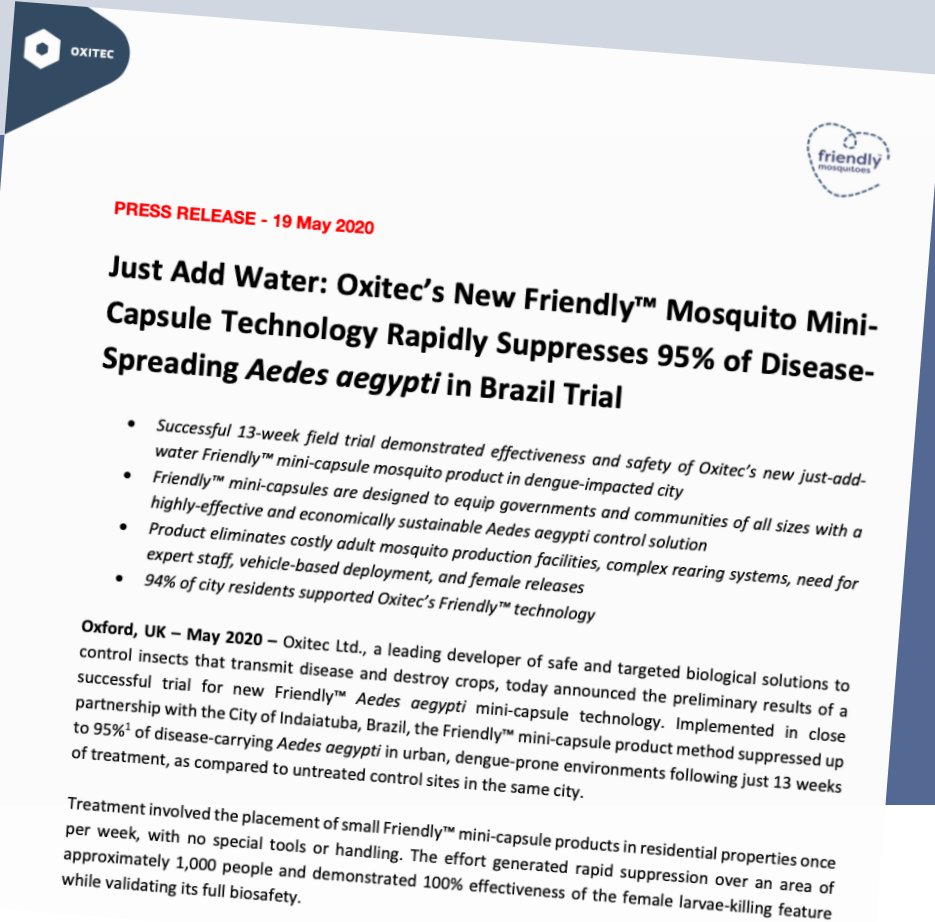




Has Oxitec's OX5034 been deployed elsewhere?

Yes.

Building on a decade of deploying OX513A, OX5034 has now been successfully and safely deployed for more than two years in Brazil, and has received full, nationwide biosafety approval from Brazil's regulatory authorities.





FAQ About Oxitec's OX5034 Mosquitoes

Is Oxitec seeking payment from taxpayers for this project?

No.

Oxitec is fully funding this project.



Is Oxitec going to be using tetracycline in Florida?

No.

Tetracycline is only used in our facilities in the UK in very small amounts to produce the eggs used in Florida. The *total* amount used to produce the eggs in the UK is less than three normal therapeutic doses in humans – *for the entire project*. This is roughly equivalent to the contents of a single sugar packet.





Will this technology be expensive compared to others?

No.

The benefits of egg-releases and in-built sexing offer dramatic reductions in production and delivery costs. This will ensure affordability and in conjunction with the benefits of improved and sustainable mosquito management at cost-effective levels.



Will OX5034 replace insecticides and other control measures?

No.

Insecticides are a valuable option available to mosquito control authorities and consumers for a broad range of mosquito species, but they have limitations. Over-reliance on them has led to the development of resistance to insecticides.

Integrated pest management approaches rely on a suite of technologies to optimize protection against disease-carrying mosquitoes and maximize sustainability. Oxitec mosquitoes are intended to be one of these valuable tools and offer the potential to reverse insecticide resistance.



Next Steps

Thank you for your time and interest.

We will remain available for any further questions.



OXITEC



Oxitec's US Regulatory Approvals and Supporting Documents

Updated 19 June 2020

OX5034 EUP Documents Issued by EPA:

Office of Pesticide Programs (OPP) Update:

<https://content.govdelivery.com/accounts/USAEPAPPT/bulletins/2896a76>

Permit Issuance Letter: <https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0353>

Human Health and Ecological Risk Assessment: <https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0359>

Draft Label: <https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0357>

Response to Comments: <https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0354> (Explanatory Memorandum) and <https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0355> (Response to Comments)

Section G Field Protocol: <https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0358>

Reviews of Section G Field Protocol: <https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0356> (26 Mar 2020) and <https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0352> (addendum 30 Apr 2020)

Joint Memorandum with CDC on Introgression and Vectorial Capacity:

<https://www.regulations.gov/document?D=EPA-HQ-OPP-2019-0274-0351>

Florida Department of Agriculture and Consumer Services (FDACS) Authorization, which includes unanimous approval from:

- Florida Department of Environmental Protection (FDEP).
- Florida Fish and Wildlife Conservation Commission (FWC).
- Florida Department of Health (DOH).
- Florida Bureau of Inspection and Incident Response (BIIR).
- Florida Bureau of Scientific Evaluation and Technical Assistance.
- Florida Bureau of Agricultural Environmental Laboratories (BAEL).
- Florida Bureau of Chemical Residue Laboratories (BCRL).

USDA-APHIS Documents for Oxitec Diamondback Moth EUP (2017):

USDA Announcement: https://www.aphis.usda.gov/aphis/ourfocus/biotechnology/brs-news-and-information/2017_brs_news/final_diamondback_moth

Diamondback Moth Environmental Assessment:
https://www.aphis.usda.gov/brs/aphisdocs/16_076101r_fea.pdf

Diamondback Moth Finding of No Significant Impact (FONSI):
https://www.aphis.usda.gov/brs/aphisdocs/16_076101r_fonsi.pdf

Diamondback Moth Federal Register Notice:
https://www.aphis.usda.gov/brs/fedregister/BRS_20170707.pdf

[CTNBio \(Brazil\) OX5034 Full Biosafety Approval](#)

Oxitec Public Opinion Resources

Updated 19 June 2020

Florida Keys Resources

In 2016, a public referendum on Oxitec's mosquito technology received support [in 31 out of 33 Monroe County precincts](#) and [the Florida Keys Mosquito Control District approved the field trial](#). The precinct results are included as part of this package. This followed the U.S. FDA [issuing its 2016 findings](#) that Oxitec's technology would have no negative impacts on human, environmental or animal health. The trial was delayed due to a transfer of jurisdiction from FDA to the EPA, after which Oxitec reapplied with its next generation Friendly™ mosquito, OX5034.

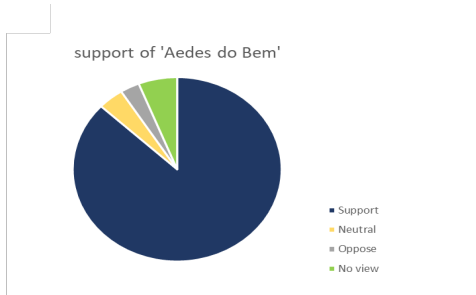
A 2016 survey carried out by Purdue University found 78% of over 900 surveyed U.S. residents supported the use of mosquitoes like Oxitec's to help control the spread of the Zika virus. [This research article](#) and [press release](#) about the survey are publicly available.

Oxitec's technology has since received unanimous approval from the following U.S.-based agencies:

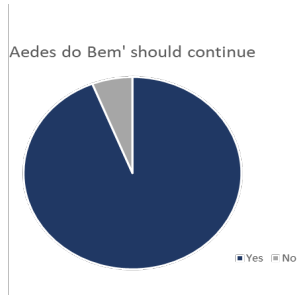
- [U.S. EPA](#), with scientific endorsement from [U.S. Centers for Disease Control \(CDC\)](#)
- The State of Florida has accepted Oxitec's Experimental Use Permit. [This FDACS authorization](#) includes approvals from:
 - Florida Department of Environmental Protection (FDEP)
 - Florida Fish and Wildlife Conservation Commission (FWC)
 - Bureau of Inspection and Incident Response (BIIR)
 - Florida Department of Health (DOH)
 - Bureau of Agricultural Environmental Laboratories (BAEL)
 - Bureau of Chemical Residue Laboratories (BCRL)
 - Bureau of Scientific Evaluation and Technical Assistance, Scientific Evaluation Section (SES)

OX5034 “Aedes do Bem” Project in Indaiatuba, Brazil

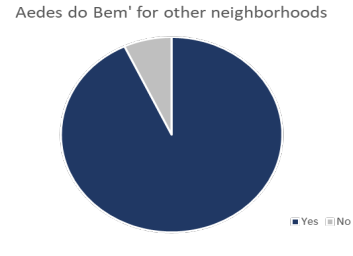
Survey conducted in September 2019



87% fully support
'Aedes do Bem'
project



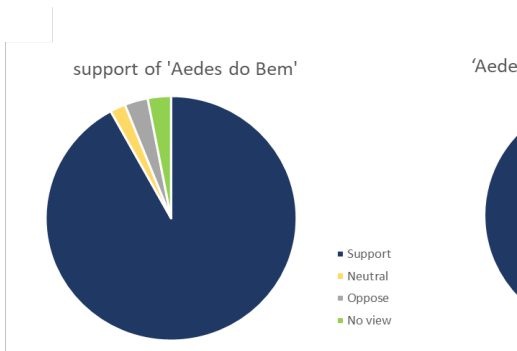
94% would like the
'Aedes do Bem'
project to continue



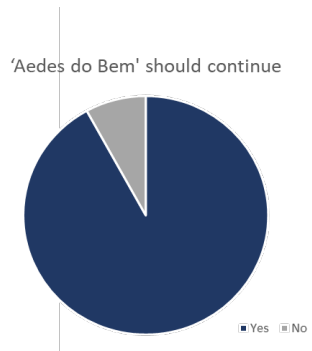
93% would like to see
the Project
extended to other
neighbourhoods

OX513A “Aedes do Bem” Project in Piracicaba, Brazil

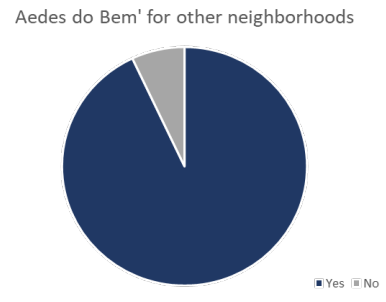
Survey conducted in May 2019.



92% fully support
'Aedes do Bem'
project



93% would like the
'Aedes do Bem'
project to continue



94% would like to see
the Project
extended to other
neighbourhoods

Brazil Projects Quotes

Nov 2019 - "The work that we have here, together with the Aedes do Bem, had an influence on not letting the epidemic spread throughout the city. With this new phase, and methodology, we hope it will be as effective as in the first phase or even more" [said Ulisses Bernardinetti, coordinator of the Aedes aegypti Control Program of Indaiatuba.](#)

Oct 2019 – "In addition to reducing the cost of laboratory production and logistics for the distribution of adult mosquitoes, with the use of Aedes do Bem™ eggs, it will be possible to reach more distant places," [said the Municipal Administrator of Indaiatuba.](#)

Sept 2019 - "We trust this technology; genetically modified mosquitoes are male."
"This second generation should eliminate dengue with fewer releases of mosquitoes. In addition, a new strain offers economic and economic cost advantages, which simplifies the production process" [said the Municipal Administrator of Indaiatuba.](#)

2016 - "We always have to look for new alternatives and 'Aedes do Bem!', more than a bet, proved to be a great success for this administration" [said Dr. Pedro Mello, Piracicaba's Secretary of Health.](#)

Precinct	Precinct_name	YES	NO
1	1-Jaycee Clubhouse	50.56%	49.44%
2	2-KW High School	51.95%	48.05%
3	3-KW High School	52.84%	47.16%
4	4-MLK Pool	49.33%	50.67%
5	5-Old City Hall	60.26%	39.74%
6	6-Gato Building	52.33%	47.67%
7	7-Moose Club	54.96%	45.04%
8	8-Glad Tidings Tabernacle	54.45%	45.55%
9	9-Sr Citizen Plaza	51.43%	48.57%
10	10-Sr Citizens Plaza	51.43%	48.57%
11	11-Stock Island Fire Station	49.47%	50.57%
12	12-BC Fire Station	53.17%	46.83%
13	13-Sugarloaf Baptist Ch	61.40%	38.60%
14	14-Sugarloaf Baptist Ch	67.78%	32.22%
15	15-Boy Scouts of America	67.73%	32.27%
16	16-BPK First Baptist Church	67.73%	32.27%
17	17-BPK Comm Park	63.71%	36.29%
18	18-American Legion Marathon	61.84%	38.16%
19	19-Marathon First Baptist Church	62.90%	37.10%
20	20-Presbyterian Kirk of the Keys	56.23%	43.77%
21	21-Marathon Moose Lodge	58.83%	41.17%
22	22-KCB City Hall	72.64%	27.36%
23	23-Marathon Moose Lodge	63.51%	36.49%
24	24-Islamorada Library	59.23%	40.77%
25	25-PK Courtroom B	57.54%	42.46%
26	26-Immanuel Lutheran Church	52.70%	47.30%
27	27-Elks Club	51.20%	48.80%
28	28-KL Civic Club	57.33%	42.67%
29	29-KL Civic Club	52.25%	47.75%
30	30-Monroe County Library	52.92%	47.08%
31	31-Monroe County Library	50.85%	49.15%
32	32-KL Baptist Church	54.13%	45.87%
33	33-Academy at Ocean Reef	84.03%	15.97%

Recent Oxitec Press Highlights

Prepared 19 June 2020

Oxitec Press Release Highlights

[Unanimous Decisions by U.S. EPA, State of Florida Approve Environmentally Sustainable Oxitec Friendly™ Mosquitoes for Pilot Project](#)

16 June 2020

Oxitec, a US-owned company developing safe, sustainable biological control tools, is pleased to announce the State of Florida yesterday issued its approval for an Experimental Use Permit (EUP), paving the way for a pilot project of Oxitec's Friendly™ *Aedes aegypti* mosquito technology ("OX5034") in the Florida Keys.

###

[Oxitec Successfully Completes First Field Deployment of 2nd Generation Friendly™ *Aedes Aegypti* Technology](#)

3 June 2020

Oxitec today announced the successful completion of the first field trial in Brazil of its 2nd Generation Friendly™ *Aedes aegypti* technology. In partnership with the municipal vector control authorities in the city of Indaiatuba, the pilot project demonstrated the new strain's effectiveness in suppressing populations of the *Aedes aegypti* mosquito – the primary vector of dengue, Zika, chikungunya and yellow fever – in four densely populated urban communities across the city.

###

[Oxitec's New Friendly™ *Aedes aegypti* Mosquito Technology Receives Full Biosafety Approval in Brazil](#)

27 May 2020

Oxitec today celebrates receiving full biosafety approval to release its new Friendly™ *Aedes aegypti* mosquito technology, granted by CTNBio, Brazil's biosafety regulatory authority. The approval is the result of an in-depth and rigorous scientific review process that included an expansive assessment of the technology and its safety for humans and the environment.

The approval was granted without exception and authorizes releases of the technology throughout Brazil. CTNBio's full biosafety review found no risk to human health or the environment, further validating positive regulatory decisions and technical opinions of regulatory authorities around the world.

###

[Just Add Water: Oxitec's New Friendly™ Mosquito Mini-Capsule Technology Rapidly Suppresses 95% of Disease-Spreading *Aedes aegypti* in Brazil Trial](#)

19 May 2020

Oxitec today announced the preliminary results of a successful trial for new Friendly™ *Aedes aegypti* mini-capsule technology. Implemented in close partnership with the City of Indaiatuba, Brazil, the Friendly™ mini-capsule product method suppressed up to 95% of disease-carrying *Aedes aegypti* in urban, dengue-prone environments following just 13 weeks of treatment, as compared to untreated control sites in the same city.

Treatment involved the placement of small Friendly™ mini-capsule products in residential properties once per week, with no special tools or handling. The effort generated rapid suppression over an area of approximately 1,000 people and demonstrated 100% effectiveness of the female larvae-killing feature while validating its full biosafety.

###

[Oxitec's Friendly™ Mosquito Technology Receives U.S. EPA Approval for Pilot Projects in U.S.](#)

1 May 2020

We are delighted with the U.S. Environmental Protection Agency's (EPA) decision to grant Oxitec an Experimental Use Permit (EUP) for piloting our 2nd Generation Friendly™ *Aedes aegypti* mosquito technology, the result of an in-depth and rigorous scientific review process that included technical support from the U.S. Centers for Disease Control (CDC) and an expansive assessment of the technology and its safety for humans and the environment.

[Link to the EPA's media release.](#)

###

[First Release of Oxitec's Genetically Engineered Moth Heralds New Era of Crop Protection](#)

January 2020

A newly published study reports a successful, first-ever open-field release of a self-limiting, genetically engineered diamondback moth, stating that it paves the way for an effective and sustainable approach to pest control.

This new strain of diamondback moth, developed by Oxitec, is modified to control the diamondback moth pest in a targeted manner. The study showed the engineered strain had similar field behaviors to unmodified diamondback moths, with results offering promise for future protection of farmers' brassica crops.

[Link to the original research article.](#)

###

Oxitec Press Coverage Highlights

EPA EUP Approval

[US EPA green-lights genetically modified mosquito](#)

Chemical & Engineering News

[EPA Approves Experimental Use Permit for Field Testing of Genetically Modified Aedes aegypti Mosquitos](#)

The National Law Review

[EPA Approves Genetically Modified Mosquito Trial for Florida Keys](#)

WGCU – PBS & NPR for Southwest Florida

'Just Add Water' Mini-Capsule Results

['Just Add Water' GM Mosquitoes Suppress Wild Population by 95%](#)

Biotech News

['Just Add Water' GM Mosquitoes Suppress Wild Population by 95%](#)

Labiotech.eu

[Mini-capsule technology controls mosquitoes without insecticides](#)

Alliance for Science

[Minicapsules with transgenic mosquitoes reduce Aedes population by 95% in Indaiatuba](#)

Time 24

General Coverage

[Interview: Oxitec CEO on US field trials and the dengue fight in a new world](#)

Break Dengue

[GM Mosquitoes Closer to Release in U.S.](#)

The Scientist

[Accelerating the Elimination of Malaria, Dengue and Other Vector-borne Diseases Will Require Trust.](#)

Blog by Grey Frandsen, CEO of Oxitec

Diamondback Moths

[First release of genetically engineered moth could herald new era of crop protection](#)

Frontiers Magazine

[Male moths genetically modified to kill females released in the wild](#)

New Scientist

[Genetically Engineered Male Moths Released into Wild to Wipe Out Females](#)

Newsweek

[Genetically engineered moths can knock down crop pests, but will they take off?](#)

Science Magazine

[Genetically engineered moths have been released into the wild to wipe out pests](#)

CNN