

Brazil to breed GM mosquitoes to combat dengue

July 10 2012

Brazil said Monday it will breed huge numbers of genetically modified mosquitoes to help stop the spread of dengue fever, an illness that has already struck nearly 500,000 people this year nationwide.

Dengue affects between 50 and 100 million people in the tropics and subtropics each year, causing fever, muscle and joint ache as well as potentially fatal dengue hemorrhagic fever and dengue shock syndrome.

The disease is caused by four strains of virus that are spread by the [mosquito *Aedes aegypti*](#). There is no vaccine, which is why scientists are focusing so intensely on [mosquito control](#).

The initiative in Brazil will produce large quantities of genetically modified male [Aedes aegypti](#) mosquitoes, which will be released into nature to mate with females, the [health ministry](#) said.

"Their offspring will not reach adulthood, which should reduce the population," it said in a statement.

The new mosquitoes will be produced in a factory inaugurated on Saturday in the northeastern Brazilian state of Bahia. Four million insects will be churned out per week.

The experiment has already been attempted in two mosquito-infested towns in Bahia, each with about 3,000 inhabitants.

"Using this technique, we reduced the mosquito population by 90 percent in six months," the ministry said.

(c) 2012 AFP

Citation: Brazil to breed GM mosquitoes to combat dengue (2012, July 10) retrieved 16 June 2024 from <https://medicalxpress.com/news/2012-07-brazil-gm-mosquitoes-combat-dengue.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.