

Fighting malaria: Genetic modification offers two promising tools

In the annals of deadly diseases, few have plagued humankind as viciously as malaria.

...But the disease [continues to take its toll](#). In 2015, there were roughly 212 million cases of malaria and [429,000 deaths](#). And the disease has become increasingly resistant to drugs.

In recent years, one new tool — [genetic modification](#) — has appeared especially promising. Two studies published Thursday in the journal *Science* illustrate the potential of genetic engineering for fighting the disease. Both studies were conducted at Johns Hopkins University's Malaria Research Institute.

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The first study focused on whether mosquitoes that have been genetically modified to be more resistant to the malaria-causing parasite would become weaker and less able to mate and breed.

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The [second study](#) published Thursday uses genetic modification of bacteria found inside mosquitoes to fight malaria. Researchers genetically modified a type of bacteria, which caused it to secrete a substance inside the mosquitoes' gut that kills off the malaria-causing parasite before it can develop properly.

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The next step for both approaches — the genetically modified mosquitoes and bacteria — is to test if they work outside the lab in conditions simulating nature. Johns Hopkins has built a “mosquito house” research facility in Zambia designed specifically for such experiments.

The GLP aggregated and excerpted this blog/article to reflect the diversity of news, opinion, and analysis. Read full, original post: [Genetically modified approaches to fighting malaria succeed in new tests](#)