

# Evaluation of Combined Strategies for Controlling Dengue Fever

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Dengue is the most significant mosquito-borne viral infection of humans, causing several hundred million infections annually. The main line of attack against dengue has been traditional mosquito control measures, such as insecticides. The coming years will see the broadening of our anti-dengue arsenal to include genetically-modified mosquitoes, biological control methods (such as *Wolbachia*), anti-viral drugs and vaccines.

In this talk, I will present mathematical modeling that is being used to help design dengue control efforts using these methods. Given the feeling that no single method is going to be a silver bullet, I shall discuss the use of combinations of methods, exploring potential synergies that might exist between them.