Special Issue

Insecticides for Mosquito Control: Strengthening the Evidence Base

Message from the Guest Editor

The eradication of vector-borne diseases is threatened by the limited range of available insecticides, leading, inevitably, to the development of resistance. This is particularly concerning for malaria control, which relies heavily on insecticide-treated nets (ITNs) and indoor residual sprays (IRS). New chemistries are being developed, and innovative deployment of insecticides may play a role in overcoming resistance, either through new types of tools or new means of distribution. Novel approaches should be supported by robust data collected using appropriate and validated methods to monitor efficacy, durability, and any emerging resistance. A strong evidence base will guide effective operational deployment decisions. This Special Issue aims to highlight our developing understanding of the impacts of insecticide resistance, share learnings about how data can inform more effective use of new and existing tools to maintain an effective vector control toolbox, and describe efforts to develop and validate methods in this area.

Guest Editor

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