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Novel control strategies for mosquito-borne diseases

A theme issue compiled and edited by James G Logan, Robert Jones, Thomas Ant and Mary Cameron

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About this issue

Diseases spread by mosquitoes threaten more than 40% of the world's population. Despite advances made against malaria, recent years have seen progress stalling, and there are continued concerns about dengue, Zika, and other viruses transmitted by mosquitoes. To counteract this growing problem, new approaches to mosquito control are needed and are under development. This special issue reviews these new approaches, which span from low-cost alterations to houses that help to reduce mosquito entry, through to genetic manipulation of mosquitoes to prevent them from being able to transmit pathogens. Readers can learn about the exciting new developments that are expected to change the way we control mosquito-transmitted diseases in the future.

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Front image Controlling mosquitos in building design. This image shows a house in Mtwara, Tanzania, with a corrugated iron sheet roof and mosquito mesh in the eaves and windows. Image credit: Steve Lindsay, Durham University.

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