

SEMINAR

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Hosted by A/P Henry Mok

Genetic manipulation of mosquito vectors for disease control



By George Dimopoulos

Professor, Department of Molecular Microbiology and Immunology, Malaria Research Institute, Johns Hopkins University, USA

Mosquito-based spread of human diseases such as malaria, dengue and Zika exert a tremendous global public health burden. While traditional vector control strategies have shown some success in controlling these disease it has become evident that additional new approaches are needed. The detailed understanding of how mosquito-encoded host and restriction factors can influence pathogen infection, taken together with advances in mosquito genetic engineering, has enabled the ongoing development of novel malaria and arbovirus control strategies based on the release of genetically modified pathogen resistant mosquitoes.