

Special Issue

Control Strategies to Counter Malaria Transmission: Facing Future Challenges for Global Health

Message from the Guest Editor

The number of malaria deaths has been declining, but the disease still claimed over 400,000 lives, of which an estimated 67% were of children under the age 5 years, per 2019 WHO malaria report, disproportionately affecting sub-Saharan Africa. Additionally, an estimated 229 million cases worldwide were reported, a slight increase from the 228 million cases reported in 2018. Thus, control measures aimed at reducing disease burden and morbidity, with a long-term goal aiming towards potential eradication, require strategies that embody a holistic look at disease transmission dynamics, accounting for (i) mosquito (agent that transmits the disease from one human to another) behavioral and physiological patterns and the factors essential for a successful human-mosquito interaction and mosquito survival; (ii) the parasite dynamics taking into account factors that enable their success in both humans and mosquitoes and their ability to evade the human immune response; (iii) the human behavioral dynamics and actions that can either enhance and/or enable or inhibit a successful transmission and hence control.

Guest Editor

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