

Comparing antimalarial drugs and their effects over the Plasmodium lifecycle

February 21 2012

In this week's *PLoS Medicine*, Michael Delves of Imperial College London, UK and colleagues compare the activity of 50 current and experimental antimalarials against liver, sexual blood, and mosquito stages of selected human and nonhuman parasite species, including *Plasmodium falciparum*, *Plasmodium berghei*, and *Plasmodium yoelii*.

These results provide a valuable guide to help researchers decide which drugs and compounds show most promise as potential future [antimalarial drugs](#) for blocking the transmission of malaria.

The authors say: "This information might guide decisions regarding which molecules could be optimally combined to provide the next generation of drugs that will succeed to artemisinin combination therapies (ACTs) and support the eradication of malaria. This comprehensive approach to drug discovery has potential utility for targeting other pathogens with complex life cycles."

More information: Delves M, Plouffe D, Scheurer C, Meister S, Wittlin S, et al. (2012) The Activities of Current Antimalarial Drugs on the Life Cycle Stages of Plasmodium Life Cycle: A Comparative Study with Human and Rodent Parasites. *PLoS Med* 9(2): e1001169. [doi:10.1371/journal.pmed.1001169](https://doi.org/10.1371/journal.pmed.1001169)

Provided by Public Library of Science

Citation: Comparing antimalarial drugs and their effects over the Plasmodium lifecycle (2012, February 21) retrieved 25 December 2023 from <https://medicalxpress.com/news/2012-02-antimalarial-drugs-effects-plasmodium-lifecycle.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.