

2025 MIPS Seminar Program

31 4 Jul 2024

🕒 12:00 pm to 1:00 pm

📍 LT1

PREPARING FOR THE NEXT GENERATION OF MALARIA CHEMOTHERAPEUTICS – Adventures with *Plasmodium knowlesi* and *P. falciparum*

Professor Colin Sutherland



Colin Sutherland is a biologist and parasitologist who joined LSHTM in January 1998 to work as a Post-Doc with Professor Geoffrey Targett on the gametocytes of *Plasmodium falciparum*. Colin also developed an interest in parasite drug resistance in the context of the team's clinical studies in The Gambia from 1998 - 2002. From 2004 - 2011, Colin continued his studies of parasite drug susceptibility, and also developed new projects on molecular diagnostics for parasitology with Peter Chiodini and Spencer Polley in the [Department of Clinical Parasitology at the Hospital for Tropical Diseases](#). This work now continues with the UK Health Security Agency in the UK HSA [Malaria Reference Laboratory](#), LSHTM, where Colin is HCPC-registered as a Clinical Scientist.

The evolutionary biology of parasitism remains the context underpinning Colin's research, and the tools of molecular genetics and genomics are the means used to address this goal. Parasite adaptation to the two great selective forces of host immunity and antimicrobial chemotherapy has been of particular interest. Recent research projects have been addressing K13-dependent and -independent mechanisms of artemisinin and lumefantrine resistance in *Plasmodium falciparum*, drug susceptibility of *P. knowlesi* and the genetics of ovale malaria.