SFB 960-/BZR – Kolloquium / Plasmodium Meeting Monday, 05.09.2022, 14:00 H53 SOND

SONDERTERMIN



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Epigenetic plasticity during development and pathogenicity of malaria parasites

Plasmodium falciparum is a unicellular eukaryotic pathogen that is responsible for half a million death yearly. The incredible capacity of the parasites to adapt to vastly different environments in the human host and mosquito vector as well as to survive changes in the environment provides a foundation for the parasite's evolutionary success. We and others have shown that this adaptive capacity to a large extent is supported by epigenetic regulatory mechanisms and in particular H3K9me and heterochromatin protein 1 mediated gene silencing. In this lecture, I will provide and overview of our current understanding and finding of how plasticity of the parasite's epigenome contributes to parasite development and pathogenicity.

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