

SEMINÁRIO PPGDI/CCS/UFES

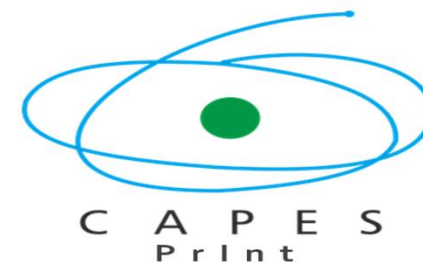
“The human disease schistosomiasis as a One Health concern”

PhD. Malcolm Jones

Professor of Parasitology, School of Veterinary Science, University of Queensland, Australia

Dia: 11 de novembro de 2022, às 13 horas

Local: Auditório do Prédio Administrativo do Centro de Ciências da Saúde
Com transmissão virtual no Google Meet: <https://meet.google.com/xbk-frqu-dkf>



Contributions to the Field of Research:

My interests lie in control of significant human parasites and my target is the syncytial tegumentary epithelia of these parasites. I am a leader in the molecular and structural biology of schistosomes and have pioneered many methods in laboratory investigations of these parasites. My research spans the disciplines of molecular and cellular biology. I have made significant contributions to understanding of schistosome eggs and their interactions with the host. My research has led to understanding of host-responsiveness to pathogenic eggs of schistosomes in tissues, to development and understanding of novel drugs and vaccines against schistosomiasis. My career-long expertise in advanced microscopies has led to enhanced methodologies for understanding functional biology in schistosomes and I am expert in molecular localization, quantitative and analytical microscopy. I have provided key insight into metal-ion content of schistosome eggs and the nature of the egg-shell. I have developed methods of cryopreservation and cryoprocessing to prepare macroscopic schistosomes in near-native state for immuno-electron microscopy. I have provided key insight into transcriptional profiling and functional genomics of schistosomes. My work has led to an enhanced understanding of schistosomes, work that will drive rational control of the parasites.