

Co-hosted by the Centre for Infectious Diseases and Microbiology – Public Health,  
Western Sydney LHD and NSW Health Pathology

# SEMINAR

Genotyping sexually reproducing eukaryotic pathogens:  
a unique machine learning solution to complex molecular  
epidemiological problems



**Thursday 31<sup>st</sup> October 2019**

**2pm - 3pm**

Seminar Room, Level 2  
Westmead Institute Medical Research  
WESTMEAD, SYDNEY

**Dr Joel Barratt**

**Research Fellow**

**Division of Parasitic Diseases and Malaria  
USA Centers for Disease Control and Prevention**

*Dr Joel Barratt is a research fellow in the Division of Parasitic Diseases and Malaria - Parasitic Diseases Branch - at the Centers for Disease Control and Prevention, with a primary research focus on the molecular epidemiology of cyclosporiasis. Dr Barratt is also a bioinformatician on a project aiming to develop a Cyclospora cayetanensis genotyping tool that can be used routinely across the USA to facilitate the identification of outbreak sources, and linkage of cyclosporiasis cases. Recently Dr Barratt has been working with Strongyloides stercoralis, developing next-generation sequencing-based genotyping tools, and is interested in the potential application of machine learning methods to epidemiologic and public health challenges.*

**Free Registration: <https://joelbarrattsymposium.eventbrite.com.au>**

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