



## INTENSIVE PROGRAM SERIES: MYCOLOGY, PARASITOLOGY AND VIROLOGY

8-12 November 2021

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**Medium:** Online, Zoom, details to be confirmed with participants

**Learning objectives:**

The course series will cover the following topics:

**Mycology**

- Focus on identification of medically important fungi, antifungal susceptibility testing, serological and molecular diagnostic testing and molecular epidemiology of medically important mycoses
- Understanding of AIDS-related mycoses

**Parasitology**

- Focus on important aspects of malaria
- Understanding blood and tissue parasite diagnosis and identification
- Understanding stool and urine parasite diagnosis and identification
- Explore unusual and opportunistic parasitic infections

**Virology**

- Discussions on advanced virology aspects of COVID-19
- Understanding management, clinical and laboratory diagnostic aspects of viral haemorrhagic fevers, arboviral disease, influenza, influenza drug resistance and novel or emerging respiratory viruses (other than SARS-COV2) in cases of respiratory illness of unknown cause and viral enteric infections
- Explore enteric viral disease classification, epidemiology, laboratory detection/typing, interventions and vaccines
- Discuss key aspects of human papillomaviruses

<b>Monday, 8 November 2021</b>		
<b>(8h55 - 16h00)</b>		
<b>PARASITOLOGY</b>		
<b>8h55</b>	<b>Welcoming remarks: Intensive rotation course series</b>	O Perovic
<b>9h00</b>	Parasitology program overview	J Frean
<b>9h05</b>	Malaria elimination and drug resistance monitoring	J Raman
<b>9h50</b>	Pathogenesis of malaria	J Frean
<b>10h35</b>	Practical methods for blood and tissue parasites	B Moodley/L Ming Sun
<b>11h05</b>	Malaria identification and parasite counts	B Moodley/L Ming Sun
<b>12h30</b>	<b>Break</b>	
<b>13h15</b>	VCRL and medically important vectors	S Oliver/B Brooke
<b>14h15</b>	Other blood-borne pathogens	J Frean
<b>15h00</b>	Identification of other blood-borne pathogens	B Moodley/L Ming Sun
<b>15h30</b>	Quiz	
<b>Tuesday, 9 November 2021</b>		
<b>(8h30 - 16h00)</b>		
<b>PARASITOLOGY/VIROLOGY</b>		
<b>8h30</b>	Stool parasites: protozoa, trematodes, cestodes and nematodes	J Frean
<b>9h30</b>	Practical methods for stool and urine parasites	L Ming Sun
<b>10h15</b>	Stool and urine parasite identification and pooled stool	L Ming Sun
<b>11h00</b>	Macroscopic identification of parasites and microscope usage/maintenance	L Ming Sun
<b>11h30</b>	Unusual and opportunistic parasitic case studies	J Frean
<b>12h30</b>	Quiz	
<b>12h45</b>	<b>Break</b>	
<b>13h25</b>	Virology program overview	J Weyer
<b>13h30</b>	What happened to influenza in 2020-2021?	C Cohen
<b>14h15</b>	Influenza HAI: application in serology (brief overview of current work)	L Maake
<b>15h00</b>	SARS-CoV-2 clinical aspects and molecular diagnosis	A von Gottberg
<b>15h30</b>	Viruses with pandemic potential: Influenza versus SARS-CoV-2	J Bhiman/D Amoako
<b>Wednesday, 10 November 2021</b>		
<b>(9h00 - 16h00)</b>		
<b>VIROLOGY</b>		
<b>9h00</b>	Enteric viruses – classification, epidemiology, laboratory detection/typing, interventions and vaccines	N Page
<b>10h30</b>	Arboviral disease case studies: clinical, diagnostic and management aspects	O Hellferscee/J Weyer
<b>11h00</b>	<b>Break</b>	
<b>11h15</b>	Arboviral disease case studies: clinical, diagnostic and management aspects (continued)	O Hellferscee/J Weyer
<b>11h45</b>	Management of viral haemorrhagic fever cases	L Blumberg/J Weyer
<b>13h00</b>	<b>Break</b>	

13h45	Management of rabies exposures and diagnosis of rabies	L Blumberg/J Weyer
14h45	On the topic of human papillomaviruses	R Kularatne
<b>Thursday, 11 November 2021 MYCOLOGY (9h00 - 16h00)</b>		
9h00	Welcome, online workshop overview	N Govender
9h15	Introduction to ID of medically-important fungi	N Govender
10h00	Approach to ID of common yeasts	R Mpembe
11h00	<b>Break</b>	
11h30	Approach to anti-fungal susceptibility testing of yeasts	S Naicker
12h30	Brief overview of molecular methods for diagnosis	T Maphanga
13h00	<b>Break</b>	
14h00	Making good slides	G Zulu
14h30	Approach to ID of common moulds with enteroblastic conidia in chains	R Mpembe
15h30	Approach to ID of common moulds with enteroblastic conidia in wet masses	G Zulu
<b>Friday, 12 November 2021 MYCOLOGY 9h00-16h45</b>		
9h00	Approach to ID of common dermatophytes	N Govender
10h00	Approach to ID of common mucoraceous moulds	T Maphanga
11h00	<b>Break</b>	
11h30	Thermally di-morphic fungi	R Mapengo
12h30	Approach to common moulds with holoblastic conidia	E Tsotetsi
13h30	<b>Break</b>	
14h00	Introduction to some serological assays	M Mwamba
15h00	Wrap up session	N Govender
15h30	Wrap up session/Course evaluation	O Perovic

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