



# McGill

## McGill Summer Institute in Infectious Diseases and Global Health



## 2<sup>nd</sup> Global Health Diagnostics Course

McGill University, Montreal– June 13-17, 2016

**Venue:** Chanceller Day Hall, McGill University  
3644 rue Peel (enter at 3660 rue Peel)  
Montreal, QC, H3A 1W9  
<https://goo.gl/maps/kjZoj>

### COURSE SCHEDULE: OUTLINE

Day	Date	Time	Major themes
1	June 13, Mon	8.30 AM – 5.00 PM	Value chain, product development, R&D, needs, access
2	June 14, Tues	9.00 AM – 5.00 PM	TB diagnostics, HIV diagnostics, Tech Pitch
3	June 15, Wed	9.00 AM – 5.00 PM	STIs, AMR, viral illnesses; multiplexed testing; regulation, QA
4	June 16, Thur	9.00 AM – 5.00 PM	Febrile illnesses; supply chain issues; NTDs
5	June 17, Fri	8.30 AM – 4.00 PM	NTDs & Enteric diagnostics

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## Day 1, June 13 [Monday]



Time	Lecture	Faculty
8.00 AM	Registration	
8.30 – 9.00 AM	Welcome, introductions, and goals	All
9.00 – 9.30 AM	Global health diagnostics: The big picture	C Yansouni, N Pai & M Pai
9.30 – 10.30 AM	 <p>Panel discussion: Product development in GH Dx: progress and barriers <i>Moderator: T Peter</i></p>	<p><u>Presenter:</u> B Rodriguez <u>Discussants:</u> R Luo R Peeling C Kelly-Cirino M Miller N Pollock J Fraser</p>
10.30 – 11.00 AM	Coffee	
11.00 – 12.00 PM	 <p>Panel discussion: What are the critical diagnostic needs in resource-limited countries? <i>Moderator: C Yansouni</i></p>	<p><u>Presenter:</u> C Yansouni <u>Discussants:</u> P Desikan A Katamba B Rodriguez R Kumar I Jani JL Abena A Sall</p>
12.00 – 1.00 PM	Lunch	
1.00 – 2.00 PM	 <p>Panel discussion: Test and treat: a challenging paradigm in LMICs? <i>Moderator: M Pai</i></p>	<p><u>Presenter:</u> M Pai <u>Discussants:</u> I Jani R Kumar T Peter Z Temesgen R Banerjee M Muyoyeta C Larson</p>
2.00 – 2.45 PM	The difficult path from 'Eureka' to the market	M Miller
2.45 – 3.15 PM	Coffee	
3.15 – 4.00 PM	Rapid R&D and validation of Dx: lessons from Ebola	N Pollock
4.00 – 5.00 PM	 <p>Panel discussion: Scale-up of global health diagnostics: what lessons have we learnt? <i>Moderator: M Pai</i></p>	<p>T Peter R Peeling S Yanow R Kumar B Rodriguez I Jani K Simiyu</p>
5.00 – 5.15 PM	Group picture	
5.30 – 6.30 PM	Wine and Cheese Reception Venue: <b>Bellini Building</b> (3649 Promenade Sir-William-Osler, Montreal)	

## Day 2, June 14 [Tuesday]



Time	Lecture	Faculty
9.00 – 9.50 AM	TB diagnostics: landscape, pipeline, priorities & market	M Pai
9.50 – 10.30 AM	Point-of-care molecular testing: landscape and prospects	D Persing
10.30 – 11.00 AM	Coffee	
11.00 – 12.00 PM	 <p>Panel discussion: Are resource-limited countries ready for molecular testing? <i>Moderator: C Yansouni</i></p>	D Persing B Rodriguez C Sandy A Katamba Z Temesgen P Desikan P Dailey
12.00 – 12.45 PM	Lunch	
12.45 – 1.35 PM	HIV diagnostics: landscape, pipeline, priorities & market	T Peter
1.35 – 2.15 PM	Implementation science to enhance the impact of POC HIV diagnostics	I Jani
2.15 - 2.45 PM	Diagnosis of acute HIV infection	J Kim
2.45 – 3.10 PM	Coffee	
3.10 – 4.00 PM	 <p>Panel discussion: HIV self-testing: the next frontier to reach the untested? <i>Moderator: N Pant Pai</i></p>	<u>Presenter:</u> N Pant Pai <u>Discussants:</u> T Peter E Cowan I Jani B Rodriguez J Kim R Peeling S John
4.00 – 5.30 PM	 <p>Product developers will pitch their product ideas and get candid feedback <i>Moderator: Pai</i></p>	1. Cepheid 2. bioMerieux 3. Roche 4. Sysmex Corp 5. DNA GenoTek 6. ChipCare 7. Fio Corp 8. KGI 9. GenePOC


## Day 3, June 15 [Wednesday]

Time	Lecture	Faculty
9.00 – 9.50 AM	STI diagnostics: landscape, pipeline, priorities & market	R Peeling
9.50 – 10.30 AM	Hepatitis diagnostics: landscape, pipeline, priorities & market	R Luo
10.30 – 11.00 AM	Coffee	
11.00 – 11.35 AM	Diagnostics for antimicrobial resistance	R Banerjee


11.35 – 12.15 PM	Barriers to POC testing: quantitative & qualitative explorations	N Pant Pai N Engel
12.15 – 1.00 PM	Lunch	
1.00 – 2.00 PM	 <p>Panel discussion: Multiplexed testing for STIs &amp; blood-borne infections: challenges and opportunities <i>Moderator: N Pant Pai</i></p>	D Persing T Peter D Bell J Kim J Fraser R Peeling
2.00 – 2.40 PM	Regulation of diagnostics: challenges and opportunities	E Cowan
2.40 – 3.10 PM	Harmonization of IVD regulation	R Peeling
3.10 – 3.30 PM	Coffee	
3.30 – 4.00 PM	Automating diagnosis and data capture: what is the future?	M Greenberg
4.00 – 5.00 PM	 <p>Panel discussion: Quality assurance for rapid testing <i>Moderator: N Pant Pai</i></p>	T Peter D Bell R Peeling I Jani F Marinucci P Dailey A Katamba

## Day 4, June 16 [Thursday]

Time	Lecture	Faculty
9.00 – 9.45 AM	 <p>Panel discussion: Acute febrile illness: needs and priorities <i>Moderator: C Yansouni</i></p>	D Bell T de los Santos E Bottieau D Goldfarb S Yanow F Degeneh A Sall
9.45 – 10.35 AM	Multiplexed panel assays for febrile illness	E Bottieau
10.35 – 11.00 AM	Coffee	
11.00 – 12.00 PM	Malaria diagnostics: landscape, pipeline, priorities & market	D Bell & S Yanow
12.00 – 12.45 PM	Lunch	
12.45 – 1.30 PM	Challenges and opportunities for dissemination of diagnostics in health emergencies: the example of Zika	M Drebot
1.30 – 2.30 PM	 <p>Panel discussion: Supply chain management for global health diagnostics <i>Moderator: C Yansouni</i></p>	<u>Presenter:</u> P Yadav <u>Discussants:</u> D Bell F Marinucci S John R Kumar I Jani M Muyoyeta

		A Sall
2.30 – 3.00 PM	Coffee break	
3.00 – 3.30 PM	Diagnosis of viral hemorrhagic fevers and arboviral infections	A Sall
3.30 – 4.20 PM	NTD diagnostics: landscape, pipeline, priorities & market	T de los Santos
4.20 – 5.20 PM	 <p>Panel discussion: NTDs: unmet needs and priorities <i>Moderator: C Yansouni</i></p>	M Semret G Matlashewski T Nutman T de los Santos T Gyorkos P Desikan E Diro M Libman

## Day 5, June 17 [Friday]

Time	Lecture	Faculty
9.00 – 9.45 AM	Visceral leishmaniasis diagnostics	G Matlashewski
9.45 – 10.30 AM	Chagas diagnostics	M Ndao
10.30 – 11.00 AM	Coffee	
11.00 – 12.00	Molecular and serologic diagnostics for filarial and Strongyloides infections	T Nutman
12.00 – 12.45 PM	Lunch	
12.45 – 1.15 PM	Enteric infections diagnostics: landscape and key questions	D Goldfarb
1.15 – 2.30 PM	<p>POINT: “Diagnostics are vital for treating enteric infections”  COUNTERPOINT: “We should just treat everyone empirically”</p>  <p>Panel discussion <i>Moderator: C Yansouni</i></p>	J Pernica M Mokomane D Goldfarb T de los Santos M Urdea E Deichsel
2.30 – 3.00 PM	Coffee	
3.00 – 3.45 PM	Developing a TPP for a Cryptosporidium test – a model for enteric infections	M Urdea
3.45 – 4.00 PM	Course evaluations and feedback	C Yansouni