

# ADVANCED TB DIAGNOSTICS

MCGILL UNIVERSITY • MONTREAL • JUNE 19-23, 2017



**COURSE DIRECTOR:**  
**Madhukar Pai**  
MD, PhD

## DAY 1

Mon • June 19

**8.30AM – 5.00PM**

Advocacy, global value chain, pipeline, TB diagnostics R&D

## DAY 2

Tues • June 20

**8.30AM – 5.00PM**

TPPs, pediatric TB, new tools, TB Tech Pitch

## DAY 3

Wed • June 21

**9.00AM – 5.00PM**

Implementation research, qualitative research

## DAY 4

Thurs • June 22

**9.00AM – 5.30PM**

Meta-analysis, GRADE, guidelines, advocacy

## DAY 5

Fri • June 23

**8.30AM – 3.30PM**

Modeling, cost effectiveness

HOSTS



**McGill**



GLOBAL HEALTH PROGRAMS

PROGRAMMES DE SANTÉ MONDIALE

Centre international de TB McGill



McGill International TB Centre



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Centre J.D. Maclean pour les Maladies Tropicales

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Research Institute  
McGill University Health Centre

Infectious Diseases and Immunity in Global Health Program  
Programme en maladies infectieuses et immunité en santé mondiale



**McGill**

Institute of Parasitology

\*Faculty and speaker information is available in the [Ukova](#) event app\*



**McGill**

McGill Summer Institute in  
Infectious Diseases and  
Global Health

VENUE

Centre Mont-Royal  
2200 Rue Mansfield,  
Montréal, QC H3A 3R8

# DAY 1 AGENDA

## MONDAY, JUNE 19

### Time

8.00AM

8.30-9.00AM

9.00-10.00AM

10.00-10.30AM

10.30-11.00AM

11.00AM-12.00PM

12.00-1.00PM

1.00-1.40PM

1.40-2.30PM

2.30-3.00PM

3.00-3.30PM

3.30 –3.50 PM

3.50 -4.50PM

4.50-5.00PM

5.00-6.30PM

### **Registration**

*Welcome, Introductions, Goals*

The Big Picture: Global Value Chain for TB Diagnostics

M Pai & A Suresh

The Struggle to Get Diagnosed: Patient Perspectives on TB Diagnosis

N Venkatesan & D Chavan

### *Coffee Break*

### **Panel Discussion: Scale-up of WHO-endorsed diagnostics —Country Experiences & Challenges**

Moderator: M Pai

Panelists:	L Fekadu	A Tubi
	N Nortey	K Khun
	B Pimentel	B Velayutham
	W Sikhondze	E Masini



### *Lunch*

TB Diagnostics Pipeline & Landscape

C Denkinger (via Zoom)

### **Panel Discussion: Can Industry and Donors fill the gaps?**

Moderator: A Suresh

Panelists:	EJ Baron	P Drain
	M Schito	E Lessem
	S Sarin	A Weirich
	M Love	S Botwright



### *Coffee Break*

Introducing Accelerator for Impact (a4i)

S Botwright

To test or not to test? Ending the age-old debate for DR-TB

J Furin

### **Panel Discussion: Aligning the emerging TB drug and diagnostic pipelines**

Moderator: M Schito

Panelists:	EJ Baron	J Furin
	S Cook-Scalise	Z Temesgen
	S Schumacher	E Masini
	E Lessem	A Rhines



### *Group Picture*

### *Summer Institute Social*

Venue: Students' Society of McGill University (3480 rue McTavish, Montreal, QC, H3A 1X9)

*Complimentary snacks and non-alcoholic drinks—Wine can be purchased with cash*




# DAY 2 AGENDA

## TUESDAY, JUNE 20

Time				
9.00-9.45AM	Next-generation TB tests: what do we need? S Schumacher			
9.45-10.30AM	Xpert MTB/RIF Ultra & GeneXpert OMNI: status update S Schumacher			
10.30-11.00AM	<i>Coffee Break</i>			
11.00-11.30AM	Chest radiology & CAD: state of the art F Khan			
11.30AM-12.15PM	<b>Panel Discussion: Triage testing: options &amp; prospects</b> Moderator: R Nathavitharana			
	Panelists:	S Schumacher P MacPherson C Yoon Z Temesgen	B Velayutham F Khan P Drain A Katamba	
12.15-1.00PM	<i>Lunch</i>			
1.00-2.00PM	<b>Panel Discussion: Advances in pediatric TB diagnosis</b> Moderator: B Kampmann			
	Panelists:	B Kampmann T Togun M Tebruegge	U Egere S Sarin	
2.00-2.45PM	QFT-Plus: what is the evidence? N Banaei (via Zoom)			
2.45-3.15PM	<i>Coffee Break</i>			
3.15-3.45PM	Urine LAM detection: current status and future prospects P Drain			
3.45-5.00PM	<b>TB TECH PITCH</b> Product developers will pitch their product ideas & get feedback			
	Roche DNA GenoTek	Cepheid FIND	Oxford Immnotec MRC Gambia & Imperial	CPTR QuantumDx



# DAY 3 AGENDA

## WEDNESDAY, JUNE 21

Time		
9.00-9.50AM	Implementation Science – rationale and application to TB diagnostics research A Katamba	
9.50-10.30AM	IPAQT model for private sector access in India: lessons learnt M Sabharwal	
10.30-10.50AM	<i>Coffee Break</i>	
10.50-11.30AM	Qualitative research: how can it improve product design and implementation? N Engel	
11.30AM-12.15PM	<b>Debate:</b> Decentralized vs. Centralized TB testing M Pai & M Salfinger	
12.15-1.15PM	<i>Lunch</i>	
1.15-2.00PM	Improving case notifications & quality in the Indian private sector I Farooq, N Jha & S Sarin	
2.00-2.40PM	Do we need a GAVI for diagnostics? P Drain	
2.40-3.10PM	<i>Coffee Break</i>	
3.10-4.10PM	<b>Panel discussion:</b> Real-time sequencing of MTB: are we there yet? Moderator: R Lee	
	Panelists: A Dissou M Salfinger W Sikhondze	A Suresh M Schito A Tubi S Schumacher 
4.10 -5.00PM	<b>Panel discussion:</b> Can we predict progression from latent to active TB? Moderator: M Pai	
	Panelists: B Kampmann T Togun	M Tebruegge S Schumacher 

# DAY 4 AGENDA

## THURSDAY, JUNE 22

Time	Event												
9.00-10.15AM	Systematic reviews of diagnostic accuracy K Steingart												
10.15-10.45AM	SR: case study: Line probe assays R Nathavitharana												
10.45-11.15AM	<i>Coffee Break</i>												
11.15AM-12.00PM	SR: case study: Rapid CRP as a triage test C Yoon (with recent updates from P Drain)												
12.00-12.45PM	<i>Lunch</i>												
12.45-1.50PM	Guideline development in TB diagnostics K Steingart												
1.50-2.40PM	<p><b>Panel discussion:</b> How do countries make policies on new diagnostics? Moderator: K Steingart</p> <table border="0"> <tr> <td>Panelists:</td> <td>A Dissou</td> <td>B Velayutham</td> </tr> <tr> <td></td> <td>L Fekadu</td> <td>E Masini</td> </tr> <tr> <td></td> <td>N Nortey</td> <td>A Tubi</td> </tr> <tr> <td></td> <td></td> <td>W Sikhondze</td> </tr> </table> 	Panelists:	A Dissou	B Velayutham		L Fekadu	E Masini		N Nortey	A Tubi			W Sikhondze
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	L Fekadu	E Masini											
	N Nortey	A Tubi											
		W Sikhondze											
2.40-3.00PM	<i>Coffee Break</i>												
3.00-4.00PM	<p><b>Panel discussion:</b> Universal DST: what does it mean for stakeholders? Moderator: M Schito</p> <table border="0"> <tr> <td>Panelists:</td> <td>Patient: D Chavan</td> <td>Lab: A Dissou</td> </tr> <tr> <td></td> <td>Advocate: E Lessem</td> <td>Rx developer: S Cook-Scalise</td> </tr> <tr> <td></td> <td>Physician: W Worodria</td> <td>NTP manager: E Masini</td> </tr> <tr> <td></td> <td>Nurse: L McElroy</td> <td>Dx developer: EJ Baron</td> </tr> </table> 	Panelists:	Patient: D Chavan	Lab: A Dissou		Advocate: E Lessem	Rx developer: S Cook-Scalise		Physician: W Worodria	NTP manager: E Masini		Nurse: L McElroy	Dx developer: EJ Baron
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	Nurse: L McElroy	Dx developer: EJ Baron											
4.00-5.30PM	<p><b>Advocacy for improving TB diagnosis &amp; care</b></p> <table border="0"> <tr> <td> <ul style="list-style-type: none"> <li>Survivors Against TB: a new movement</li> <li>Engaging Media for Effective Advocacy</li> <li>TAG's work in TB advocacy</li> <li>Kid-friendly drugs: how advocacy helped</li> <li>Advocating to policy makers</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>D Chavan &amp; N Venkatesan</li> <li>D Vaidyanathan &amp; J Gautam</li> <li>E Lessem</li> <li>S Cook-Scalise</li> <li>S Garnham &amp; Member of Parliament</li> </ul> </td> </tr> </table>	<ul style="list-style-type: none"> <li>Survivors Against TB: a new movement</li> <li>Engaging Media for Effective Advocacy</li> <li>TAG's work in TB advocacy</li> <li>Kid-friendly drugs: how advocacy helped</li> <li>Advocating to policy makers</li> </ul>	<ul style="list-style-type: none"> <li>D Chavan &amp; N Venkatesan</li> <li>D Vaidyanathan &amp; J Gautam</li> <li>E Lessem</li> <li>S Cook-Scalise</li> <li>S Garnham &amp; Member of Parliament</li> </ul>										
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5.30 – 7.00PM	<p><b>RESULTS Canada</b> Wine and Cheese Reception Room TBA</p>												

# DAY 5 AGENDA

## FRIDAY, JUNE 23

Time	
8.30-9.30AM	Modeling of TB diagnostics D Dowdy
9.30-10.30AM	Challenges in modeling TB diagnostics D Dowdy
10.30-10.50AM	<i>Coffee Break</i>
10.50-11.50AM	Cost effectiveness analysis of TB diagnostics D Dowdy
11.50AM-12.30PM	Case studies in modeling & cost-effectiveness D Dowdy
12.30-1.15PM	<i>Lunch</i>
1.15-2.15PM	<b>Panel discussion:</b> Linking models to decision-making in public health & policy Moderator: D Dowdy
	B Velayutham      E Masini L Fekadu          J Carter N Nortey          A Katamba S Sarkar
2.15-3.00PM	Modeling and cost effectiveness: a synthesis D Dowdy
3.00-3.30PM	Course evaluations and closure M Pai



## FUNDERS



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