

McGill – Pasteur – Genome Centre for infectious disease International network in Neglected IDs

McGILL UNIVERSITY AND GÉNOME QUÉBEC
INNOVATION CENTRE
Innovation in action



McGill



August 27-29, 2018

Bellini Pavilion | 3649, Promenade Sir-William-Osler | Montreal (H3G 0B1)

Monday, August 27 – The vector genome project - Room #530

9:30 AM to 9:40 AM		
Arrival	Welcome Opening remarks Dr. Anvaj Sakuntabhai & Silvia Vidal	
9:40 AM to 9:45 AM		
General Aims	Dr. Richard Paul	
9:45 AM to 10:35 AM		
9:45 – 10:00	Mosquito genome- state of the art	Louis Lambrechts
10:00 – 10:15	Ticks and their pathogens	Sarah Bonnet
10:20 – 10:35	Vector microbiomes	Bill Landesman
10:40 AM to 11:00 AM		
Coffee Break		
11:00 AM to 11:55 AM		
11:00 – 11:15	Update on genome technology	Ioannis Ragoussis
11:20 – 11:35	The mobile suitcase laboratory for sequencing	Ahmed Abd El Wahed
11:40 – 11:55	Non-targeted sequencing	Etienne Simon-Loriere
12:00 PM to 1:00 PM		
Lunch Break		
1:00 PM to 5:00 PM		
Working session <i>*Coffee Break at 3:00</i>	Coordinators: Richard Paul & Anavaj Sakuntabhai	

Tuesday, August 28 – The vector genome project – iPSC genomic studies –host pathogen interactions. AM: Room #530; PM: Room #330

9:30 AM to 12:00 PM – Room #530		
<i>Summary of the vector/pathogen genome project & iPSC genomic studies</i>		
9:30 – 11:00 <i>*Coffee Break at 10:00</i>	Summary of the vector/pathogen genome project - Project description: aims and methodology - Knowledge gaps - Funding strategy	All participants
11:00 – 11:20	Systems biology of trypanosomatid pathogens	Reza Salvati
11:20 – 11:40	Host- Cryptococcus interaction	Salman Qureshi
11:40 PM to 1:15 PM		
Lunch Break		
1:15 PM to 5:00 PM – Room #330		
Host-Pathogen interactions		
1:15 – 2:15	iPSC diversity panel as a genetic tool to dissect human-pathogen interaction	Luis Barreiro and team
2:20 – 2:40	Host-Aspergillus interaction	Don Sheppard
2:45 – 3:05	Control of Antigenic Variation in Trypanosomes	Igor Cestari
3:05 PM to 3:25 PM		
Coffee Break		
3:30 PM to 5:00 PM		
3:30 – 5:00	Working Session - Project description: aims and methodology - Knowledge gaps - Funding strategy	All participants Coordinators, Silvia Vidal & Anavaj Sakuntabhai;

Wednesday, August 29 - iPSC genomic studies -host-pathogen interactions - parasitic diseases in South America

Room #330

9:30 AM to 10:50 AM – Room #330		
iPSC genomic studies - host-pathogen interactions		
9:30 – 9:45	<i>iPSC genomic studies</i>	Luis Barreiro Team
9:50 – 10:05	<i>Host-Yersinia</i>	Javier Pizarro Cerda (by skype)
10:10 – 10:25	<i>Host - Leishmaniasis interaction</i>	Martin Olivier
10:30 – 10:45	<i>Genomic tools for working with Leishmania</i>	Christopher Fernandez-Prada
10:50 AM to 11:00 AM		
Coffee Break		
11:00 AM to 13:00 PM – Room #330		
11:00-13:00	<i>Working Session</i> - <i>Project description: aims and methodology</i> - <i>Knowledge gaps</i> - <i>Funding strategy</i>	<i>All participants</i> Coordinators, Silvia Vidal & Anavaj Sakuntabhai
13:00 PM to 2:00 PM		
Lunch Break		
2:00 PM to 3:30 PM - Room #330- Parasitic diseases in South America		
2:00 – 2:30	<i>Leishmania in Brazil</i>	Rodrigo P. Pinto Soares (by skype)
2:30 – 3:00	<i>Chagas disease in Argentina</i>	Facundo Garcia Burnissen (By Skype)
3:00 – 3:30	<i>Development of serological analysis for Chagas Disease in Bolivia</i>	Nora Medrano (by skype)
3:30 PM to 5:00 PM		
Coffee Break & wrap-up meeting		
3:30 – 5:00	<i>-working session; main conclusions; next steps</i>	<i>All participants</i> , Silvia Vidal & Anavaj Sakuntabhai

PARTICIPANTS

McGill University

- **Mark Lathrop** – Program director
- **Philippe Gros** (philippe.gros@mcgill.ca)
- **Silvia Vidal** – Scientific coordinator
- **Donald Sheppard** (don.sheppard@mcgill.ca) mycology: Aspergillus
- **Ioannis Ragoussis** (ioannis.ragoussis@mcgill.ca) genome technology: vector genomics, RNAseq
- **Guillaume Bourque**, bioinformatics: data management, data sharing
- **Simon Gravel**, population geneticist
- **Kenneth Dewar**, expert in microbiomes, metagenomes
- **Salman Qureshi**, (salman.qureshi@mcgill.ca) mycology: Cryptococcus
- **Timothy Geary** (timothy.g.geary@mcgill.ca)
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- **Martin Olivier** (martin.olivier@mcgill.ca) parasitology: Leishmania
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Insitut Pasteur Paris and Institut Pasteur International Network

- **Anavaj Sakuntabhai** (anavaj@pasteur.fr), human biology, vector borne infection: Scientific coordinator, iPSC genomics study
- **Richard Paul** (rpaul@pasteur.fr), evolution biology, vector borne infection: field study, mosquito and tick borne infections
- **Javier Pizarro Cerda** (pizarroj@pasteur.fr), bacteriology - Yersinia: human-Yersinia interaction
- **Louis Lambrechts** (louis.lambrechts@pasteur.fr), evolution biology, vector borne infection: vector genomics, vector microbiomes, Aedes reference strains
- **Isabelle Dusfour** (isabelle.dusfour@pasteur.fr), entomology – mosquito population genetics
- **Etienne Simon-Loriere** (etisl@pasteur.fr), viral genetic evolution: viral sequencing and phylogenetics
- **Kathleen Victoir** (kathleen.victoir@pasteur.fr), Association of Institut Pasteur International Network
- **Claude Guertin** (claud.guertin@iaf.inrs.ca), Institut Armand Frappier, Laval: entomology: tick borne infection, tick microbiomes

International collaborators

- **Luis Barreiro** (USA) (lbarreiro@gmail.com) University of Chicago, Illinois – population genetics: iPSC genomic study
- **Christopher Fernandez Prada** (christopher.fernandez.prada@umontreal.ca), Faculty of Veterinary medicine, School of Veterinary Medicine, Montreal University
- **Bill Landesman** (USA) (landesmanb@greenmtn.edu), Green Mountain College, Vermont – entomology: tick borne infection, tick genomics, tick microbiomes
- **Sarah Bonnet** (France) (sarah.bonnet@vet-alfort.fr), entomology
- **Ahmed Abd El Wahed** (Germany) (abdelwahed@gwdg.de), Division of Microbiology and Animal Hygiene, University of Goettingen – microbiology: field screening and sequencing
- **Sebastien Boyer** (Cambodia) (sboyer@pasteur-kh.org), Institut Pasteur Cambodia, entomology, mosquito borne infection
- **Tineke Cantear** (Cambodia) (tcantaert@pasteur-kh.org), Institut Pasteur Cambodia – immunology: iPSC genomic study
- **Van Mai Cao-Lormeau** (French Polynesia) (mlormeau@ilm.pf), Institut Louis Malardé – virology: iPSC genomic study
- **Mussaret Zaidi** (Mexico) (zaidimus@msu.edu), Department of Epidemiology and Biostatistics, Michigan State University, USA & Infectious Diseases Research Unit, Hospital General O'Horan, Merida, Mexico – pediatrics: iPSC genomic study
- **Rodrigo P. Pinto Soares** – Fiocruz (Brazil) (rsoares@minas.fiocruz.br), Laboratório de Parasitologia Celular e Molecular | Centro de Pesquisas René Rachou/FIOCRUZ
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- **Facundo Garcia Bournissen** (Argentina); (facugb1@gmail.com): *Independent Investigator. Pediatrician. Clinical Pharmacologist. Clinician Scientist* | Multidisciplinary Institute for Research in Pediatric Diseases (IMIPP) | National Research Council of Argentina (CONICET), Buenos Aires Children's Hospital "R Gutierrez"