Pasteur TB course 2017 Preliminary Program 13 Avril

Mandau	Pasteur 1B course 2017 Preliminary Pro	grain 13 AVIII
Monday June 12		Dainitta Olooliel
9:00 - 10:00	Welcome and introduction to the course Pre-test for practical session	Brigitte GICQUEL Catherine PIERRE-AUDIGIER Howard TAKIFF (Institut Pasteur - Paris)
10:30 - 11:00	Lecture: The fight against Tuberculosis - general aspects	Brigitte GICQUEL (Institut Pasteur - Paris)
11:15 - 12:15	Lecture: Clinical aspects in Tuberculosis	Steffen STENGER (Ulm University - Ulm - Germany)
13:15 - 13:45	Laboratory presentation and use of available material	Isabelle LEQUEUTRE Insitut Pasteur - Paris
13:45 - 14:00	Synthesis of the day's activities in Context	
14:00 - 14:30	ZNStaining and microscopy	
14:30 - 15:00	Lecture: Mechanisms of resistance to RIF and Fluoroquinolones	Howard TAKIFF
	<u>Practical workshop</u> : Antibiotic Resistance sequencing	Howard TAKIFF
15:30 - 18:30	Principal of test	
	Preparaton of mix and amplification, preparing gels	
Tuesday June 1	3 2017	
9:00 – 10:00	Lecture: Immunology of TB	Steffen STENGER (Ulm University - Ulm - Germany)
10:00 - 11:00	<u>Lecture:</u> Evaluation of new diagnostic techniques	Howard TAKIFF
11:15 - 11:30	Course PHOTO	Catherine PIERRE-AUDIGIER
11:30 - 12:30	<u>Lecture:</u> Phenotypic and molelcular tests for diagnosis	(Institut Pasteur – Paris)
13:30 - 13:45	Synthesis of the day's activities in Context	
13:45 - 15:00	Practical workshop: Antibiotic Resistance Sequencing Electrophoresis	Howard TAKIFF
15:00 – 15:45 15:45 – 16:45	Practical workshop Petroff demonstration, Kudoh innoculation Practical workshop: Antibiotic Resistance Sequencing	Howard TAKIFF
	Analysis electrophoresis PCR results	D. I WAN SOOI MOEN
17:00 - 18:00	Lecture: TB mol Epi and Spoligotyping	Olick VAN SOOLINGEN (National Institute for Public Health and the Environment - Netherlands)
18:00 - 19:00	Intro to Bioinformatics	Howard TAKIFF
Wednesday Jur	ne 14 2017	
09:00-9:30 (in Lab)	PCR spoligo	Dick VAN SOOLINGEN
9:30 - 10:30	Lecture: Pediatric TB	Christophe DELACOURT (Necker Enfants Malades Hospital - Paris France)
10:45 - 12:00	Lecture: TB mol Epi and Spoligotyping	Dick VAN SOOLINGEN
13:00 - 13:15	Synthesis of the day's activities in Context	
13:15 - 18:00	<u>Practical Workshop:</u> Spoligotyping, Hybridization + lecture during dead time	Dick VAN SOOLINGEN
18:00 - 19:00	Bioinformatics exercises	Howard TAKIFF

Thursday June 1	5 2017	
09:00-9:30 (in Lab)	Lecture: MIRU	Philip SUPPLY
9:30-10:00	PCR MIRU	(Institut Pasteur - Lille -France)
		Veronique JOLY
10:30-11:30	Lecture: TB HIV/Diabetes	(Hopital Bichat–Claude Bernard - Paris)
		Laurent ABEL
11:45-12:45	Lecture: Genetic Susceptibility to TB	(Necker Enfants Malades Hospital - Paris France)
13:45 - 14:00	Synthesis of the day's activities in Context	
14:00-16:00	Practical workshop: MIRU, electrophoresis (dépots = 90') + lecture	Philip SUPPLY
	MIRU gels overnight	(Institut Pasteur - Lille - France)
16:30 - 18:00	Practical Workshop : Spoligotyping: Results and Discussion	Philip SUPPLY
18:00 - 19:00	Bioinformatics exercises	
Friday June 16	2017	
9:00 - 10:00	Lecture: NTM Detection and speciation; when to treat	Jean-Louis HERRMANN
		(Hôpital Raymond Poincaré- Garches- France)
10:15-12:45	Lecture: Population structures and evolution of M. Tuberculosis	Sébastien GAGNEUX
	MIRU and Spoligotyping in context with WGS	Sébastien GAGNEUX
	Lecture: WGS and SNPs and Transmission	(Swiss Tropical and Public Health Institute, Basel - Switzerland)
14:00 - 14:15	Synthesis of the day's activities in Context	
14:15 - 16:30	Practical Workshop: MIRU Photos + Results and Discussion	Philip SUPPLY
16:30 - 18:00	Comparison of results: Mol Epi. in the context of tuberculosis phylogeny	Philip SUPPLY
First week cours	e evaluation	

- WEEK 2 -

Monday June 19 2017			
9 - 10:30	Lecture: Treatment of Tuberculosis	Nicolas VEZIRIS	
	Including MDR and XDR cases	(Hôpital Pitié Salpétrière, Paris- France)	
10:45 - 11:15	Leature: The chart term treatment for MDD tuberculosis	Arnaud TREBUCQ	
10.45 - 11.15	Lecture: The short term treatment for MDR tuberculosis	(The Union - Paris - France)	
11:30-11:45	Synthesis of the day's activities in Context		
-11:45-12:15	<u>Practical workshop</u> : Line Probe assay test (Hain) Genotype MTBDRplus/sl	Catherine PIERRE-AUDIGIER	
	Preparation of Mix and amplification	(Institut Pasteur – Paris)	
	Practical workshop: GeneXpert	Indira SOUNDIRAM	
12:15-12:45	Principle of test : first run	(Cepheid Europe - Maurens Scopont - France)	
	<u>Practical workshop</u> : Genotype MDBDRplus-hybridization	Catherine PIERRE-AUDIGIER (Institut Pasteur - Paris)	
14:00-18:00	GeneXpert : Tests, Installation and maintenance	Indira SOUNDIRAM	

Tuesday June 2	20 2017	
9:00 - 10:00	Current and future technical options for the diagnosis of drug resistant tuberculosis	Elisa TAGLIANI Institut San Raffaele - Milano
10:15-11:15	Defining the boundaries of a healthy immune response for a better understanding of TB immunity	Darragh Duffy Institut Pasteur, Paris
11:30 - 12:30	Bioinformatics exercises	
13:45 - 15:00	<u>Practical workshop</u> : Interpretation of Genotype MTBDRplus/sl	Catherine PIERRE-AUDIGIER, Elisa TAGLIANI
15:30 - 17:45	<u>Practical workshop</u> : Interpretation and Discussion of GeneXpert	Indira SOUNDIRAM, Elisa TAGLIANI
18:00 - 18:45	Bioinformatics exercises	

Wednesday June 21 2017			
		Susan DORMAN	
9:00 – 11:00	<u>Lecture:</u> New Drugs, New Regimens, Drug trials	(Johns Hopkins Center for Tuberculosis Research, - Baltimore - U.S.A.)	
		Ying ZHANG	
11:15 - 13:00	Lecture: Drug action and Resistance Mechanisms	(Johns Hopkins Center for Tuberculosis Research - Baltimore - U.S.A.)	
14:00 - 14:15	Synthesis of the day's activities in Context		
14:15 - 15:30	Lecture: Clinical usefulness of WGS	Philip BUTCHER and Adam WITNEY (University of London)	
15:30 - 18:00	Practical Workshop: Bioinformatics exercises Databases, WGS	Magnus FONTES and team	
		(Institut Pasteur - Paris)	
Thursday June	22 2017		
9:00 - 11:00	EXAM		
11:15 - 12:30	Lecture: Tuberculosis resistance: value of rapid testing in various infrastructure settings	Francis DROBNIEWSKI Imperial College - London	
13:30 - 13:45	Synthesis of the day's activities in Context		
13:45 – 18:00	Practical workshop: WGS scanning, databases	Philip BUTCHER and Adam WITNEY	
Friday June 23 2017			
9:00 - 10:00	Lecture: General Epidemiology of Tuberculosis	Philippe GLAZIOU (World Health Organisation - Geneva - Switzerland)	
10:15 - 11:15	Pasteur Museum visit		
11:30 - 13:00	Correction of Tests		
	Correction of Tests		

16:00 - 18:00 Presentation of Diplomas and course closure