

## Tuberculosis course, Shenzhen 2018

**Sunday, October 14<sup>th</sup>.**

**Host: Min Zhang (Director of Nanshan CCDC)**

<b>Time</b>	<b>Content</b>	<b>Language</b>	<b>Speaker Unit</b>
9:00	Opening Speeches	Chinese  or  English	<b>Longde Wang,</b> Chinese Preventive Medicine Association <b>Brigitte Gicquel,</b> Institut Pasteur, France <b>Lin Zhou,</b> Guangdong TB Control Centre <b>Yingji Zhang,</b> Shenzhen Health and Family Planning Commission <b>Xianfeng Huang,</b> Shenzhen Nanshan District Health and Family Planning Bureau
9:30	Opportunities and Challenges for Healthy China 2030	Chinese	<b>Longde Wang,</b> Chinese Preventive Medicine Association
10:20	Global TB Control Strategy and Objectives	Chinese	<b>Jianjun Liu,</b> Chinese Center for Disease Control and Prevention
10:50	Tea break		
11:00	New Diagnostic Techniques and Standards for Tuberculosis	Chinese	<b>Lixia Wang,</b> TB Control Centre of Chinese Center for Disease Control and Prevention
11:30	Progress in Strategies for the Prevention and Control of Drug-Resistant Tuberculosis	Chinese	<b>Shiming Cheng,</b> Chinese Anti-tuberculosis Association
12:00	Lunch		
14:00	Risk Response to Public Health Incidents	Chinese	<b>Qiulan Yang,</b> Deputy Editor of HEALTH NEWS
14:45	Tea break		
15:00	Overview of the Epidemiology of Tuberculosis	English	<b>Howard Takiff,</b> Institut Pasteur, France
15:50	Tea break		
16:20	Treatment of Tuberculosis	English	<b>Wenhong Zhang,</b> Hua Shan Hospital
17:00	Short-Term Treatment of MDR-TB	English	<b>Arnaud Trébucq,</b> Union Against Tuberculosis and Lung Disease, France

18:00	Discussion
18:15	Dinner

**Monday, October 15<sup>th</sup>. Host: Shengyuan Liu (Deputy Director of TB Control Department, Nanshan CCDC)**

<b>Time</b>	<b>Content</b>	<b>Language</b>	<b>Speaker Unit</b>
8:15	Introduction for students of the TB Course 2018.	English	<b>Brigitte, Catherine, Howard, Shengyuan Liu, Xujun Guo</b>
8:30	Clinical Aspects in Tuberculosis	English	<b>Steffen Stenger,</b> Ulm University, Germany
9:40	Informatization Facilitates the Prevention and Control of Tuberculosis	Chinese	<b>Liang Chen,</b> Guangdong TB Control Center
9:55	A Handheld App for DOTS Therapy	Chinese	<b>Shengyuan Liu,</b> Nanshan CCDC
10:10	Tea break		
10:30	Treatment of MDR-TB and XDR-TB	English	<b>Nicolas Veziris,</b> Hospital Pitié Salpêtrière, France
12:00	Lunch		
14:00	The Fight Against Tuberculosis-General Aspects	English	<b>Steffen Stenger,</b> Ulm University, Germany
15:00	Pediatric TB	English	<b>Christophe Delacourt,</b> Necker Children's Hospital , France
16:00	Tea break		
16:30	TB HIV/Diabetes	English	<b>Véronique Joly,</b> Hospital Bichat–Claude Bernard, France
17:30	Discussion		
18:00	Dinner		

**Tuesday, October 16<sup>th</sup>.**

**Host: Shengyuan Liu (Deputy Director of TB Control Department,  
Nanshan CCDC)**

<b>Time</b>	<b>Content</b>	<b>Language</b>	<b>Speaker Unit</b>
9:00	Immunology of TB	English	<b>Xinchun Chen</b> , Shenzhen University
10:00	NTM Detection and Speciation; When to Treat (Part 1)	English	<b>Jean-Louis Herrmann</b> , Hospital Raymond Poincaré , France
10:30	Tea break		
11:00	NTM Detection and Speciation; When to Treat (Part 2)	English	<b>Jean-Louis Herrmann</b> , Hospital Raymond Poincaré , France
12:00	Lunch		
13:30	Phenotypic and Molecular Tests for Diagnosis	English	<b>Catherine Pierre-Audigier</b> , Hospital Bichat–Claude Bernard; Institut Pasteur, France
14:30	IGRA and Biomarkers	English	<b>Elisabeth Bouvet</b> , Hospital Bichat–Claude Bernard, France
15:30	Tea break		
16:00	Current and Future Technical Options for the Diagnosis of Drug Resistant Tuberculosis	English	<b>Francis Drobniewski</b> , Imperial College, London
17:30	Discussion		
18:00	Dinner		

**Wednesday, October 17<sup>th</sup>.**

**Host: Shengyuan Liu (Deputy Director of TB Control Department,  
Nanshan CCDC)**

<b>Time</b>	<b>Content</b>	<b>Language</b>	<b>Speaker Unit</b>
8:30	Evaluation of New Diagnostic Techniques	English	<b>Howard Takiff</b> , Institut Pasteur, France
9:30	Drug Discovery	English	<b>Vincent Delorme</b> , Institut Pasteur, Korea
10:30	Tea break		
11:00	New Drugs, New Regimens, Drug Trials	English	<b>Ray Chen</b> , NIAID, NIH, USA
12:00	Lunch		
13:30	Population Structures and Evolution of M. Tuberculosis	English	<b>Iñaki Comas</b> , Biomedicine Institute of Valencia (IBV-CSIC), Spain
15:00	TB Molecular Epidemiology	English	<b>Qian Gao</b> , Fudan University
16:15	Tea break		
16:45	Clinical Usefulness of WGS	English	<b>Howard Takiff</b> Institut Pasteur, France
17:45	Discussion		
18:00	Dinner		

## Workshop

### Thursday, October 18<sup>th</sup>.

Time	Content	Professor
8:45-9:45	Introduction to the Lab, Presentation of Participants	Howard Takiff, Qian Gao, Catherine Pierre-Audigier
10:00-17:45	Antibiotic Resistance Sequencing	Howard Takiff
	Staining and Microscopy	Catherine Pierre-Audigier
	Kudoh Inoculation	Howard Takiff

### Friday, October 19<sup>th</sup>.

Time	Content	Professor
8:45-17:45	MIRU-VNTR	Qian Gao

### Saturday, October 20<sup>th</sup>.

Time	Content	Professor
8:45-17:45	Melting Curve Method for Resistance and McSpoligotyping	Xiamen, Zeesan
13:45-15:45	Lecture : Drug Resistance Mechanisms	Ying Zhang

### Sunday, October 21<sup>st</sup>. Sunday-Group Trip

Shenzhen museum in the afternoon and Shenzhen Bay Park in the evening.

### Monday, October 22

Time	Content	Professor
8:45-17:45	Performing an Xpert MTB/RIF assay	Xpert, Qi Jiang and Weijia Tang

### Tuesday, October 23<sup>rd</sup>

Time	Content	Professor
8:45-17:45	Line Probe Assay Genotype® (Hain)	Biomerieux

# Bioinformatics

## Wednesday, October 24<sup>th</sup>

8:30 - 10:15	Bioinformatics Exercises	Howard Takiff
10:15 - 10:30	Tea Break	
10:30 - 12:00	Continue Bioinformatics Exercises	Howard Takiff
12:00 - 13:30	Lunch	
13: 30 - 16:00	Continue Bioinformatics Exercises	Howard Takiff
16:00 - 16:30	Tea Break	
16:30 - 18:00	Continue Bioinformatics Exercises	Howard Takiff
18:00	Dinner	

## Thursday, October 25<sup>th</sup>

8:30 - 9:45	Course Exam	Catherine Pierre-Audigier, Howard Takiff, Brigitte Gicquel
9:45 - 10:00	Tea Break	
10:00 - 12:00	Finish Bioinformatics Exercises	Howard Takiff
12:00 - 13:30	Lunch	
13:30- 15:45	Genomic Analysis	Qingyun Liu
15:45 - 16:00	Tea Break	
16:00 - 18:00	Continue Genomic Analysis	Qingyun Liu
18:00	Dinner	

## Friday, October 26<sup>th</sup>.

8:30 - 10:15	Continue Genomic Analysis	Qingyun Liu
10:15 - 10:30	Tea Break	
10:30 - 12:00	Review Course Exam	Catherine Pierre-Audigier, Howard Takiff, Brigitte Gicquel
12:00 - 13:30	Lunch	
13: 30 - 15:45	Continue Genomic Analysis	Qingyun Liu
15:45 - 16:00	Tea Break	
16:00 - 17:30	Finish Genomic Analysis	Qingyun Liu
17:30 - 18:15	Presentation of Diplomas	
18:15	Dinner	