



MYCODAYS | 2024

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**A symposium of ANRS | MIE
- Tuberculosis Coordinated Action -**

**Institut Pasteur de Lille
July 3-5, 2024**



Société Française
de Microbiologie



MYCODAYS | 2024 - SCIENTIFIC COMMITTEE

Alain Baulard • Maryline Bonnet • Priscille Brodin • Roland Brosch • Stéphane Canaan • Oana Dumitrescu • Jean-Louis Herrmann • Laurent Kremer • Didier Laureillard • Camille Locht • Estelle Marion • Olivier Neyrolles • Pierre Santucci • Nicolas Veziris • Nathalie Winter

ORGANIZING COMMITTEE

Alain Baulard • Olivier Neyrolles
ANRS | MIE Département Recherche fondamentale:
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All participant registered to “MYCODAYS | 2024” are also welcome to join the “Acid Fast Club 70th anniversary meeting, Institut Pasteur de Lille 2-3 July 2024”. Please contact Pr. Michael Barer for details (mrb19@leicester.ac.uk)

Wed 03 July

17:00 Welcome & Coffee

17:30 Opening remarks

18:00 Shared Keynote Lecture with the Acid Fast Club

Christian Lienhardt : The Long and Winding Road to Novel Tuberculosis Treatments

19:00 Wine & Cheese with the Acid Fast Club

Thu 04 July

08:45 Welcome & Coffee

09:00 Nathalie Winter : Neutrophil subsets play dual roles in tuberculosis by producing inflammasome dependent-IL-1 β or suppressing T-cells via PD-L1

09:30 Isabelle Vergne : Exploring the macrophage cytosol for novel *Mycobacterium tuberculosis* lipid-binding proteins involved in innate immunity

09:50 Natacha Faivre : Tuberculosis-induced glycolysis favors tunneling nanotube formation, promoting HIV-1 dissemination in macrophages

10:10 Short talks by **speaker selected from abstracts**

10:25 Coffee break

10:50 Vivek Thacker : Early events in tuberculosis - harnessing micro-physiological models to study humanity's oldest foe

11:20 Sarah Monard : Identification of a novel nerve cell population in lung granulomas during tuberculosis

11:40 Wendy Le Mouellic : *Mycobacterium tuberculosis* sulfur acquisition during infection

12:00 Short talks by **speaker selected from abstracts**

12:15 Lunch

13:15 Fabrice Bonnet : Title to be announced

13:45 Lorenzo Guglielmetti : endTB clinical trial, efficacy and safety of new, shorter treatment regimens for MDR-TB

14:15 Praha Rupasinghe : MIC distribution of the endTB and endTB Q clinical trial isolates for the new and repurposed anti-TB drugs

14:45 Olivier Bahuaud : Dynamics of T cell phenotypic profiles during tuberculosis treatment

15:05 Short talks by **speaker selected from abstracts**

15:20 Coffee break

15:45 Nicolas DURAND : MmpL diversity is a key factor involved in the mycobacterial virulence in the opportunistic pathogen *Mycobacterium abscessus*

- 16:15** **Louis David Leclercq** : Non-tuberculous mycobacteria and glycopeptidolipid : what's new from *Mycobacterium abscessus*?
- 16:35** **Silke Malmshaimer** : *Mycobacterium abscessus* trehalose polyphosphates are important for survival in macrophages
- 17:05** Short talk by **speaker selected from abstracts**
- 17:20** **Christian Chalut** : The mycobacterial antibiotic resistance determinant WhiB7 mediates drug tolerance in the emerging human pathogen *Mycobacterium abscessus*
- 17:40** **Francesco Olea Popelka** : Using the One Health approach to address the challenges posed by *Mycobacterium tuberculosis* complex species in livestock, wildlife, and humans
- 19:00** **Aperitif**

Fri 05 July

08:00 **Coffee**

- 08:30** **Charlotte Genestet** : Translational approach to decipher *Mycobacterium tuberculosis* host specificity
- 08:50** **Bouke de Jong** : How do we protect all oral regimens from acquiring resistance?
- 09:20** Short talks by **speaker selected from abstracts**

09:35 **Coffee break**

- 10:00** **Ruben Hartkoorn** : Developing novel anti-tuberculosis molecules into a potential drug regimen: thoughts and processes
- 10:30** **Tiago Beites** : Turning *Mycobacterium tuberculosis* appetite for fatty acids against itself
- 11:00** Short talk by speaker **selected from abstracts**
- 11:15** **Digby Warner** : *Mycobacterium tuberculosis*: hiding in plain sight
- 11:45** **Kamel Djaout** : Improving pretomanid potency to revert resistance

12:05 **Lunch**

13:05 **Keynote lecture**

- Edith Houben** : Inner workings of mycobacterial type VII secretion systems
- 13:55** **Zainab Edoe** : Simultaneous inhibition of multiple aminotransferases as a new strategy against TB
- 14:15** Short talks by **speakers selected from abstracts**
- 14:30** **Ludovic Tailleux** : Improving TB Treatment by Targeting Macrophages
- 15:00** **Meindert H. Lamers** : Targeting DNA replication in *Mycobacterium tuberculosis*

- 15:45** Best-Poster Award (FEBS Open Bio) and Best Young-Scientist Talk Award (Molecular Microbiology)

16 :00 **Fairwell**