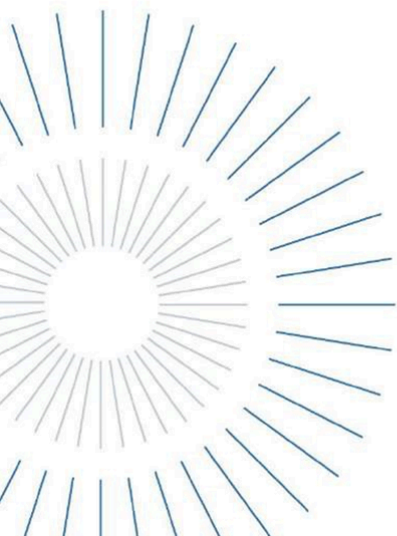


International Symposium
« Subclinical TB: significance, detection and impact »

Tuberculosis Coordinated Action (AC TB)
ANRS MIE
June 25th 2025



AGENDA

9:00 - 9:30

Welcome coffee

Opening session

9:30 – 9:45

Peter GODFREY-FAUSSETT (LSHTM, London, UK)

9:45 – 10:00

Yazdan YAZDANPANAH (ANRS MIE Director, Paris, FR)

Keynote session

10:00 – 10:30

Subclinical TB: the epidemiology of a long-neglected phenomenon

Frank COBELENS (AIGHD, Amsterdam, NL)

10:30 – 11:00

Asymptomatic TB and its programmatic implications

Cecily MILLER (WHO, Geneva, CH)

Session I: Diagnostic tools

11:00 – 11:30

Cynomolgus macaque model of clinical heterogeneity: deciphering pathophysiology from latent to active TB

Candie JOLY (CEA, Fontenay-aux-Roses, FR)

11:30 – 12:00

Detection of *M. tuberculosis* complex DNA in blood of asymptomatic adults

Adrian MARTINEAU (Queen Mary Univ., London, UK)

Session II: Transmission and screening strategies

12:00 – 12:30

Early TB phenotypes – a mechanistic perspective

Reinout VAN CREVEL (Radboud Univ., Nijmegen, NL)

12:30 – 13:30

Lunch break

Session II: Transmission and screening strategies

13:30 – 14:00

Re-framing tuberculosis through the lens of transmission

Digby WARNER (Univ. of Cape Town, Cape Town, SA)

14:00 – 14:30

The contribution of asymptomatic TB to transmission

Pete J. DODD (Univ. of Sheffield, Sheffield, UK)

14:30 – 15:00

Screening strategies among high-risk groups

Nicolas NAGOT (Univ. of Montpellier, Inserm, EFS, CHU Montpellier, FR)

AGENDA

Session III: Treatment

- 15:00 – 15:30 **TB treatment in clinical situations close to subclinical TB**
François-Xavier BLANC (Nantes Université, Nantes, FR)
& **Christophe DELACOURT** (INEM, Univ. Paris Cité, Paris, FR)
- 15:30 – 16:00 **Evaluation of treatment efficacy in non-human primate models**
Julien LEMAITRE (CEA, Fontenay-aux-Roses, FR)
- 16:00 – 16:30 **Perceptions and representations of asymptomatic TB infection: how to approach and treat those who do not recognize themselves as ill?**
Miriam CASTALDO (INMP, Rome, IT)
- 16:30 – 17:00 **Organized community as an enabler to tackle asymptomatic TB**
Khuat Thi Hai OANH (SCDI, VN)

Session IV: Conclusions

- 17:00 – 17:30 **Perspectives and wrap up**
Peter GODFREY-FAUSSETT (LSHTM, London, UK)
- 17:30 – 17:45 **Closing remarks**
François-Xavier BLANC (Nantes Université, Nantes, FR)

Scientific and organizing committee

Olivier NEYROLLES & Francois-Xavier BLANC (co-Chairs), Alain BAULARD, Maryline BONNET, Guislaine CARCELAIN, Nathalie DE CASTRO, Didier LAUREILLARD, Olivier MARCY, Philippe VANDE PERRE.

ANRS MIE Basic Research, Innovation and Clinical Research departments:

Djamila N'GADJAGA, Guia CARRARA, Jeanne BERARD, Joséphine TINE, Marcia TRUMEAU

Logistic support

ANRS MIE: Fathima ABOOSALIHU

IPBS, Toulouse: Nancy VALTOVA

PRESENTATIONS

CHAIRMAN



Peter Godfrey-Fausset

LSHTM, London, UK

Peter is Emeritus Professor of International Health at the London School of Hygiene and Tropical Medicine. He spent most of his career at the LSHTM, with breaks to work for WHO, UNAIDS and to advise the Global Fund.

An infectious disease physician, he worked in the medical school in Lusaka, Zambia for six years, where the chest clinic saw more patients with tuberculosis each year than were seen in the whole of the UK.

His research, originally molecular diagnostics and epidemiology, became more and more centred on public health and clinical trials both individually and large-scale cluster randomised trials. The focus was always on the intersection between HIV and tuberculosis. During ten years with UNAIDS, he was the Scientific Advisor with a broad remit in international policy - setting HIV targets; defining metrics for epidemic control; considering the medium-term future of HIV programmes; updating guidance on ethics for clinical trials and translating scientific advances for a policy and community-based audience.

KEY NOTE

Frank Cobelens

AIGHD, Amsterdam, NL

Prof. Frank Cobelens is epidemiologist specialized in infectious diseases of poverty at the Amsterdam University Medical Centers, The Netherlands. He has worked for over 25 years in tuberculosis, amongst others on TB burden measurement, diagnostics and screening, and TB vaccines.



Cecily Miller

WHO, Geneva, CH

Cecily Miller, PhD MPH, is a Technical Officer with the Global Programme on Tuberculosis & Lung Health at the World Health Organization. She is an infectious disease epidemiologist and has been with the WHO Global TB Programme since 2019, where her focus is TB screening and prevention. In this role she oversees the development of WHO consolidated guidelines on TB screening

alongside the operational handbook on implementation. She has also developed ScreenTB, an online tool to allow countries to prioritize risk groups and screening tools and algorithms for country-level strategic planning. Prior to her work at WHO, she worked for 10 years with the TB Center at the University of California San Francisco on clinical and implementation research of diagnostic approaches to TB and technical assistance for contact investigation.

SPEAKERS Diagnostic tools session



Candie Joly

CEA, Fontenay-aux-Roses, FR

Dr Joly Candie is a project manager at the Infectious Disease Models for Innovative Therapies department in Commissariat à l'énergie atomique et aux énergies alternatives of Fontenay-aux-Roses, France (<https://www.idmitcenter.fr/fr/>). Dr Candie Joly coordinates TB related programs in IDMIT infrastructure. She is an immunologist with an expertise in the development of pre-clinical TB models in on-human primates to assess the efficacy of novel

therapeutic/preventive strategies and characterize host-pathogen interactions. Uncovering key events during Mycobacterium tuberculosis infection is essential for a comprehensive understanding of TB pathophysiology. As one of the target activities of IDMIT, we have established a cynomolgus macaque model reproducing the full spectrum of human tuberculosis including granuloma formation as well as latent TB. A wide range of tools - immunological, imaging, histological - combined with clinical monitoring enabling us to precisely track the disease progression and the host's immune response. These findings will help identify biomarkers to predict disease outcome and therapeutic success.

Adrian Martineau

Queen Mary Univ., London, UK



Adrian Martineau is Clinical Professor of Respiratory Infection & Immunity at the Blizard Institute, where he leads the Queen Mary & Barts Health Tuberculosis Centre and the Centre for Immunobiology. His current tuberculosis research focuses on development of new blood biomarkers of tuberculosis infection and disease. In 2021 Adrian led a team that discovered the presence of Mycobacterium tuberculosis DNA in circulating haematopoietic stem cells of asymptomatic TB contacts adults living in Ethiopia. The current focus of his lab relates to

identification of niches for M. tuberculosis in blood and bone marrow and characterisation of host-pathogen relationships within them, with the ultimate aim of enhancing biological understanding and clinical detection of tuberculosis infection.

SPEAKERS Transmission and screening strategies session

Reinout Van Crevel, MD PhD

Radboud Univ., Nijmegen, NL

As a professor in Global Health and Infectious Diseases I combine my work as a clinician, lecturer and researcher in the Netherlands, with research and teaching overseas. I am a senior infectious disease specialist at Radboudumc, Nijmegen, which is internationally leading on innate immune biology and immunotherapy for infectious diseases, and a tertiary referral hospital for mycobacterial diseases. My main research focus is tuberculosis. The goal of my research is to integrate patient studies and laboratory sciences to understand the 'biology' and improve diagnosis and management of Mycobacterium tuberculosis infection, and severe and diabetes-associated TB disease. I have collaborated with Indonesian universities for over 20 years, I have lived in Indonesia for several years leading a large multidisciplinary program on HIV prevention and management. I now hold positions at the Oxford Clinical Research Unit and University of Indonesia in Jakarta, and lead a network on diabetes-tuberculosis research in East Africa, and on TB meningitis in Asia. My research has a strong component of capacity strengthening, and I have supervised many international PhD students, many from Indonesia. I tremendously enjoy teaching, especially in an international context.

SPEAKERS Transmission and screening strategies session



Digby Warner

Univ. of Cape Town, Cape Town, SA

Digby Warner is the Professorial Director of the Institute of Infectious Disease and Molecular Medicine (IDM) at the University of Cape Town, South Africa. His research focuses on fundamental aspects of *Mycobacterium tuberculosis* metabolism, and the intersection of host, environmental, and mycobacterial factors driving *M. tuberculosis* transmission and tuberculosis (TB) disease risk. In recent years, he has developed a strong interest in the utilization of advanced microscopy in infectious disease research, and in making imaging technologies accessible to researchers in low-resource settings. Examples include his co-leadership of the Africa Microscopy Initiative (www.microscopy.africa), a pioneering programme which aims to increase the awareness and utilization of bioimaging across the continent, and openScopes Africa (www.openscopes.com/openscopes-africa) and microbeScope, separate projects with Paul French and colleagues at Imperial College London around t, open-access instruments for biomedical research and diagnostics. He also serves as co-founding Director of Eh!woza, (www.ehwoza.com), a community engagement platform with a focus on TB and its social impacts in high-burden communities.

SPEAKERS Transmission and screening strategies session



Nicolas Nagot

Univ. of Montpellier, Inserm, EFS, CHU Montpellier, FR

Nicolas Nagot is a medical epidemiologist, Professor of Public Health at the University of Montpellier, France, and Director of the INSERM/University of Montpellier research Unit entitled 'Pathogenesis & Control of chronic and Emerging Infections'. He also heads the Clinical epidemiology and data science department

at the University Hospital of Montpellier. For the last 25 years, his research focused on the prevention of vertical transmission of HIV, but also on the elaboration and evaluation of interventions to control HIV, hepatitis C, STIs among high-risks populations, including female sex workers and people who use drugs (PWUD), with a strong emphasis on transmission. More recently, Prof. Nagot has been exploring how pillars of successful interventions which showed efficacious to control HIV and HCV and PWUD could be adapted to the control of TB among PWUD and other groups at high-risk of TB in South-East Asia and Southern Africa. He is also the methodologist of a large randomised trial led by his research Unit, on the evaluation of an optimised TB management among HIV-co-infected patients with advanced HIV disease, implemented in 5 African countries and Cambodia.

Pete J.Dodd

Univ. of Sheffield, Sheffield, UK

Pete Dodd is a mathematical modeller and epidemiologist focussed on tuberculosis, originally trained in mathematics (Cambridge) and theoretical physics (Imperial College London). He held postdocs in infectious disease modelling at Imperial and then the London School of Hygiene & Tropical Medicine, before moving to the School of Medicine and Population Health at the University Sheffield. Pete is focussed on developing modelling and statistical methods to better understand tuberculosis burden and epidemiology, and to interpret and evaluate interventions.

SPEAKERS Treatment Session



François-Xavier Blanc

CEA, Fontenay-aux-Roses, FR

Professor François-Xavier Blanc is a medical doctor, clinician trained in respiratory medicine, currently working in the Respiratory Medicine Department of the Nantes University Hospital (Head of this Department) and at Nantes University, medical school. He is the Chair of the national subgroup of SPLF working on tuberculosis and non tuberculous mycobacteria (GREPI, for Groupe de Recherche et d'Enseignement en Pneumo-Infectiologie) and a member of the Global Tuberculosis Network (GTN) and the TBNet. He is also the co-chair of of the French tuberculosis coordinated action (Action Coordonnée Tuberculose) of the French National Agency for Research on AIDS, hepatitis, tuberculosis and emerging infectious diseases (ANRS MIE) put in place to stimulate and link clinicians and researchers working on tuberculosis.

His main scientific interests focus on tuberculosis, especially in people living with HIV/AIDS. He has a broad experience in tuberculosis clinical care and research. He already coordinated two large international, multicenter, randomized controlled trials in HIV-infected adults with tuberculosis overseas, namely the CAMELIA trial in Cambodia and the STATIS trial in Cambodia, Ivory Coast, Uganda and Vietnam. His current clinical research activities focus on the management of tuberculosis/HIV patients, with a global objective of targeting the high mortality that still affects the most severely immunocompromised individuals.

SPEAKERS Treatment Session

Christophe Delacourt

INEM, Univ. Paris Cité, Paris, FR

Christophe Delacourt is Professor of Pediatrics at Paris-Cité University in Paris, specializing in pediatric pneumology. He is Head of the Pediatric Pneumology Unit at Necker-Enfants Malades Hospital and Medical Director of the Child and Adolescent Medicine Department. He coordinates the national reference center for rare respiratory diseases in children (RESPIRARE). He is developing clinical and fundamental research, focusing on tuberculosis, bronchopulmonary dysplasia and congenital lung malformations, and has already published nearly 300 Medline-indexed articles. Christophe Delacourt is also a former President of the French Pediatric Society.



Julien Lemaître

CEA, Fontenay-aux-Roses, FR

Julien Lemaître is a clinical veterinarian and immunologist at the Center for Immunology of Viral, Autoimmune, Hematological, and Bacterial Diseases (IMVA-HB / IDMIT), a joint research unit of CEA – Université Paris-Saclay – Inserm, located in Fontenay-aux-Roses, France. He graduated from the École Nationale Vétérinaire de Toulouse and went on to complete a Master's degree and a PhD focused on the immunomodulatory roles of neutrophils during SIV infection, under the supervision of Roger Le Grand and Olivier.

Lambotte. Julien then obtained a permanent position at IDMIT, where he works as both a primate veterinarian and a researcher. During the COVID-19 pandemic, he collaborated with IDMIT teams to develop a clinically relevant macaque model of SARS-CoV-2 infection, which has been used to evaluate vaccine candidates and therapeutic strategies. Within the IDMIT Tuberculosis group and the ERA4TB European program (AMR), he also contributed to the development of non-human primate models of tuberculosis. These models support the preclinical evaluation of vaccines, therapies, and host-directed strategies against TB. As a researcher, Julien leads projects investigating the role of the innate immune response in TB infection. His work focuses in particular on the contribution of neutrophils to tuberculosis disease progression and HIV/SIV infection. He is also exploring $\gamma\delta$ T cell dysfunction and their antimicrobial functions in TB. Julien is a board member of the Neutrophil Club, part of the French Society for Immunology.

SPEAKERS Treatment Session



Miriam Castaldo

INMP, Rome, IT

MA and PhD in Medical Anthropology from the Universidad Nacional Autónoma de México (UNAM). From 1999 to 2006, she lived in Mexico, where she conducted extensive research on health and migration issues, mainly in that country, but also in Guatemala and Cuba. From 2006 to 2008, she coordinated and conducted research in Algeria, in Sahrawi refugee camps, and in Lebanon, in Palestinian refugee camps.

Since 2008, she has been a researcher and anthropologist at the Istituto Nazionale Salute Migrazioni e Povertà (INMP) in Rome, Italy. There, she works on medical anthropology in the context of training, research, and care approaches for migrants and foreign citizens, particularly those suffering from tuberculosis, neglected tropical diseases, and psychological distress linked to mechanisms of alienation, racialization, and historical, political, and institutional violence.

Since 2019, she has been conducting research in anthropology, migration, and tuberculosis in the Seine-Saint-Denis department of Paris, supported by the Institut Convergences Migrations (ICM), Inserm, the Fondation Maison des Sciences de l'Homme, the Institut de recherche interdisciplinaire sur les enjeux sociaux (IRIS) (EHESS), the Plateforme SHS Santé (EHESS), and the Sorbonne Paris Nord University. Her fieldwork has focused in particular on the Infectious and Tropical Diseases Department of the Avicenne Hospital in Bobigny. Starting in 2025, her research will extend to other hospital settings in the 93rd department and Paris (CH Saint-Denis–Delafontaine, Jean Verdier, Robert Ballanger, Bichat, Tenon, Saint-Louis, Lariboisière), as well as associations such as Samu Social–75 (Mobile Team for the Fight against Tuberculosis) and institutions such as the Department of Prevention and Health Actions (SPAS) and the Center for the Fight against Tuberculosis (CLAT) in Seine-Saint-Denis. She is the author of national and international publications. Since 2024, she has been a member of the scientific committee (for social sciences and social epidemiology) of the Prospective Cohort of Patients Initiating Anti-Tuberculosis Treatment in France (French Tb) (ANRS 0464s).

SPEAKERS Treatment Session

Khuat Thi Hai Oanh

Center for Supporting Community Development Initiatives (SCDI), Vietnam

Khuat Thi Hai Oanh is a medical doctor graduated from Hanoi Medical University, with a Master Degree on Sexual and Reproductive Health Research from London School of Hygiene and Tropical Medicine.

She co-founded the Institute for Social Development Studies (ISDS) in 2002, and the Center for Support Community Development Initiatives (SCDI) in 2010. Oanh is currently the Executive Director of SCDI whose mission is to contribute to an inclusive society through improving life of marginalized populations. Aiming at contributing to Sustainable Development Goals agenda, SCDI focuses on community empowerment and creating enabling environment for the most marginalized and vulnerable populations. She was the first Vietnamese selected for Yale's World Fellow Program, in 2005. In 2009, the World Economic Forum honored her as a Young Global Leader. In 2014, she was given Dedoner Clayton Award by the French Pasteur Institute and Nobel Laureate Françoise Barré-Sinoussi. In 2017, she was listed among the 50 Most Influential Vietnamese Women by Forbes Vietnam.