TUESDAY, DECEMBER 1
Arrival and Registration

WEDNESDAY, DECEMBER 2
Welcome and Keynote Address
Soumya Swaminathan, World Health Organisation, Switzerland
Taking Science-Based Solutions to Scale

Local to Global in Tuberculosis R&D
Bruno B. Andrade, Fundação Oswaldo Cruz, Brazil
Breakthroughs from Brazil and Beyond
Mark Hatherill, University of Cape Town, South Africa
Can Host Blood Transcriptomic Biomarkers of Tuberculosis Inform Therapy?
Lei Gao, Chinese Academy of Medical Sciences, China
LTBI Management in Mainland China
Short Talks Chosen from Abstracts

Short Talks Chosen from Abstracts

Data to Drive Innovation
Gabriel D. Victora, Rockefeller University, USA
Clonal Dynamics of the Antibody Response
Sarah M. Fortune, Harvard TH Chan School of Public Health, USA
Lessons from Lesions: ssRNASeq in Human and Non-Human Primate Tuberculosis
Purvesh Khatri, Stanford University, USA
Adventures of a Data Parasite: Using Heterogeneity in "Dirty Data" to Accelerate Translational Medicine
Short Talks Chosen from Abstracts

Poster Session 1

THURSDAY, DECEMBER 3
Highlights from the Host
Alan Sher, NIAID, National Institutes of Health, USA
Can Basic Immunology Solve Tuberculosis?
Elisa Nemes, University of Cape Town, South Africa
Immune Correlates of Protection in Humans
Patricia A. Darrah, NIAID, National Institutes of Health, USA
Mechanisms of Protection in Nonhuman Primates
Katrin D. Mayer-Barber, NIAID, National Institutes of Health, USA
Unexpected Aspects of Granuloma Biology
Short Talks Chosen from Abstracts

Workshop 2: New Tools for TB: Diagnosis and Cure
Short Talks Chosen from Abstracts

Back to Bacterial Basics
Olivier Neyrolles, IPBS, CNRS-University of Toulouse, France
The Biology of Metals in Mycobacterial Virulence and Antimycobacterial Immunity

FRIDAY, DECEMBER 4
Rethinking Risk in Tuberculosis
Neel R. Gandhi, Emory University, USA
Transmission is Driving the TB Epidemic, but where is the Majority of Transmission Occurring?
Julio Croda, Ministry of Health, Brazil
Tuberculosis in Brazil, View from the MoH
Padmini Salgame, Rutgers University, USA
Mtb Transmissibility and Tissue Response
Kyu Y. Rhee, Weill Cornell Medical College, USA
A Focus on Bacterial Factors
Short Talks Chosen from Abstracts

Co-Evolution and Its Consequences
Christopher M. Sassetti, University of Massachusetts Medical School, USA
Exploring Co-Evolution in Collaborative Cross (cc):Mice
Shabaana Khader, Washington University School of Medicine, USA
Tuberculosis Strain Diversity Drives Immune Response
Yasmine Belkaid, NIAID, National Institutes of Health, USA
Taming Tuberculosis: The Path from Pathogen to Commensal
Short Talks Chosen from Abstracts

Poster Session 3

SATURDAY, DECEMBER 5
Lessons from Leprosy
Milton Ozório Moraes, Oswaldo Cruz Institute- Fiocruz, Brazil
Autoaphy and Host Metabolism in Leprosy
Cressida Madigan, University of California, San Diego, USA
Live-Imaging M. Leprae
Annemieke Geluk, Leiden University Medical Center, Netherlands
Immuono- and Transcriptomic Dx Diagnostics for Leprosy and Leprosy Reactions
Robert L. Modlin, University of California, Los Angeles, USA
Tricytotoxic CTLs in Leprosy and TB
Short Talks Chosen from Abstracts

Directing Discovery to Transform Therapy
Clifton E. Barry III, NIAID, National Institutes of Health, USA
Emerging Results from Next Gen EBA Studies
Guy B. Marks, University of New South Wales, Australia
Talk Title to be Announced
Short Talks Chosen from Abstracts

Closing Keynote Address

* Session Chair † Invited but not yet accepted     Program current as of March 29, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.
KEYSTONE SYMPOSIA
on Molecular and Cellular Biology

Tuberculosis: Science Aimed at Ending the Epidemic (S9)
December 1-5, 2020 • Centro de Artes e Convenções (UFOP) • Ouro Preto, MG, Brazil
Scientific Organizers: Anne G. Kasmar, Bruno B. Andrade, Rodrigo Corrêa-Oliveira and David Alland
Part of the Keystone Symposia Global Health Series, supported by the Bill & Melinda Gates Foundation

Global Health Travel Award Deadline: June 30, 2020 / Scholarship Deadline: August 19, 2020 / Abstract Deadline: September 2, 2020 / Discounted Registration Deadline: October 1, 2020
David Alland, Rutgers University, New Jersey Medical School, USA

Turning Discoveries into Useful Tools

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

SUNDAY, DECEMBER 6

Departure