

***Developing a Comprehensive Therapeutic Research  
Strategy for the Converging Epidemics  
of TB, T2DM and HIV***

***Session 2:  
Pre-Clinical Research  
Critical Gaps and Key Research Directions***

***Co-Chairs***

***Dr. Larry Schlesinger***

***Dr. Randall Basaraba***

# ***Pre-Clinical Research Critical Gaps and Key Research Directions***

- ***Dr. Larry Schlesinger*** (*The Ohio State University*)
  - *Nuclear Receptors and Associated Proteins in Innate Immune Activation Pertaining to Metabolic Disorders and TB.*
  
- ***Dr. Michael Brownlee*** (*Albert Einstein College of Medicine*)
  - *Metabolite-Induced ROS Overproduction Activates the Diverse Biochemical and Molecular Mechanisms Underlying Diabetic Complications.*

# ***Pre-Clinical Research Critical Gaps and Key Research Directions***

- ***Dr. Ann Marie Schmidt (NYU Langone Medical Center)***
  - *RAGE Signal Transduction Mediates Chronic Inflammation in Obesity, Type 2 Diabetes and its Complications: Mechanisms and Therapeutic Opportunities.*
  
- ***Dr. Mihai Netea (Radboud University Medical Center)***
  - *Immunometabolic Circuits in Anti-Mycobacterial Host Defense and Trained Immunity.*

# ***Pre-Clinical Research Critical Gaps and Key Research Directions***

- ***Dr. Hardy Kornfeld (University of Massachusetts Medical School)***
  - *Mouse Models of TB with Metabolic Comorbidities.*
- ***Dr. Brendan Podell (Colorado State University)***
  - *Pathogenesis of Diabetes-TB Comorbidity in the Guinea Pig Model.*
- ***Group Discussion***