

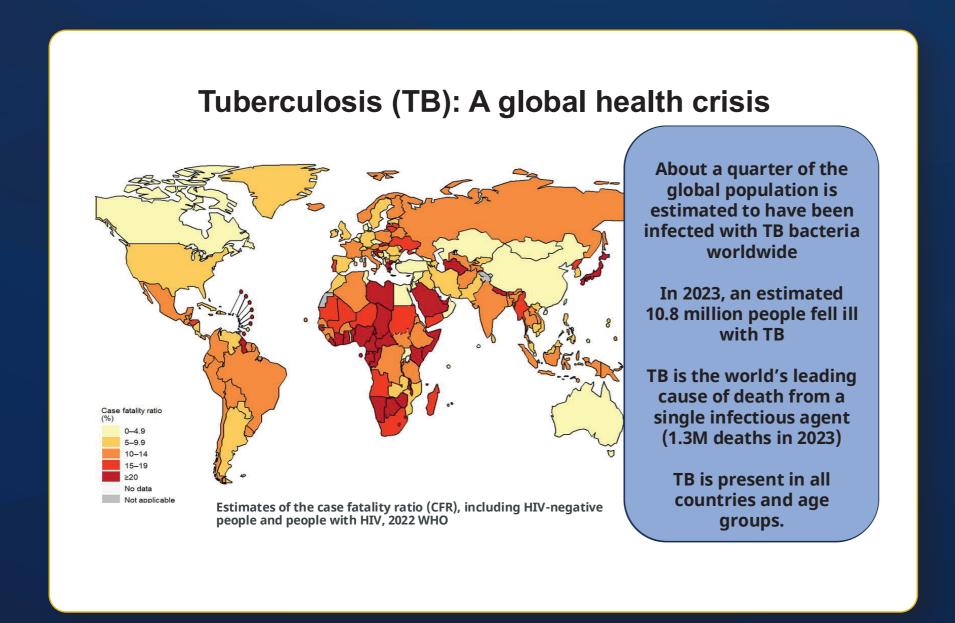
Louis Hopkins

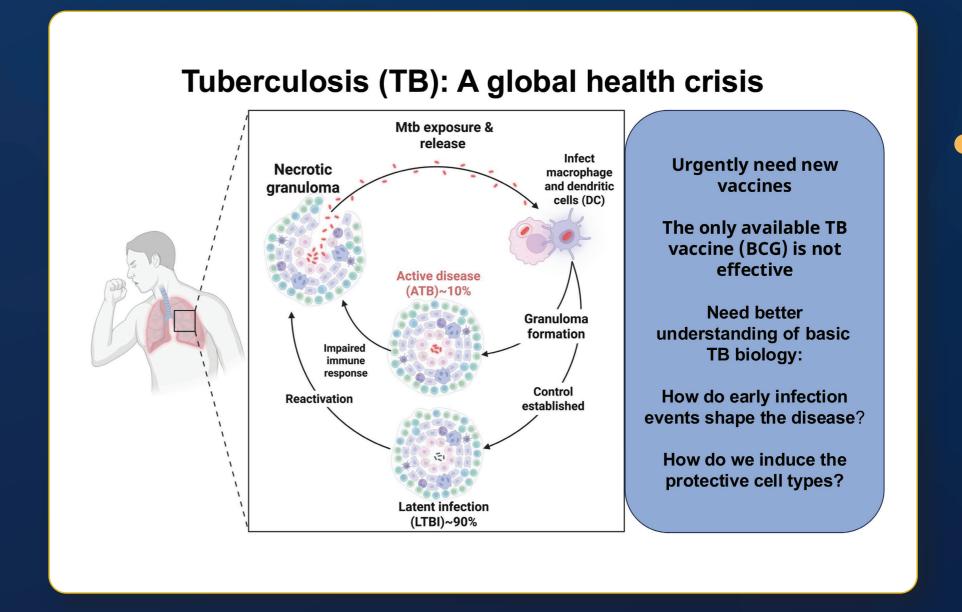
Herz Global Impact Award Ph.D. Candidate, Immunology Third Year ARCS Scholar

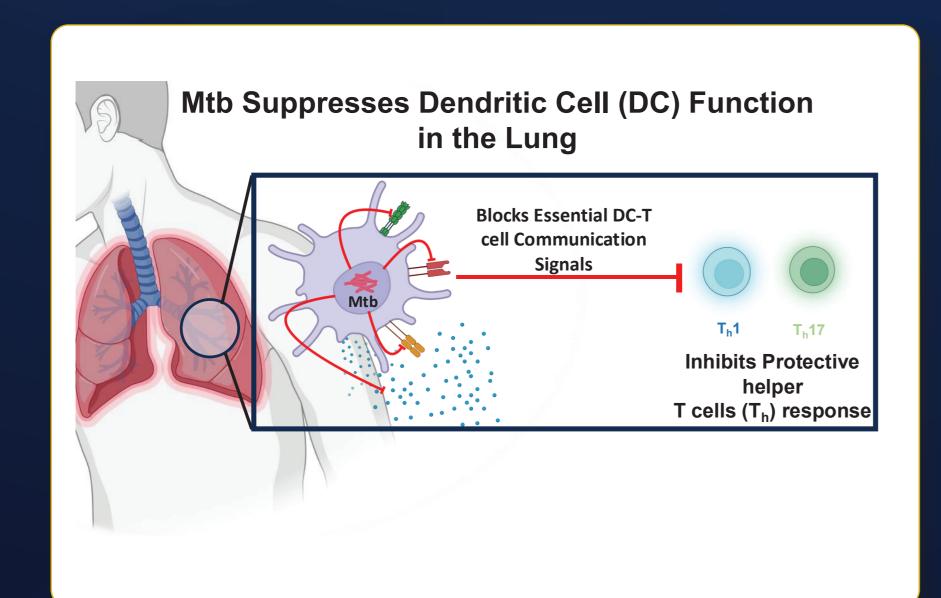


Dendritic cell immunometabolism and regulation of anti-Mycobacterium tuberculosis (Mtb) immune responses through CD155 pathways

By integrating data across different models, we can better understand Mtb immune suppression at the metabolic and cellular level to identify targets to improve vaccines and therapies for tuberculosis (TB).







Metabolism Dictates Immune Cell Function Immunometabolism Mtb manipulates host immunometabolism to facilitate its Pyruvate -► Lactate survival and promote disease Cholesterol Acetyl-CoA synthesis How can we change **Oxaloacetate** DC metabolism to increase essential Succinyl-CoA communication with Glutamine T cells?

