## Louis Hopkins

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



# EMORY UNIVERSITY

Investigating TIGIT-mediated immune suppression during Mycobacterium tuberculosis (Mtb) infection and pathogenesis

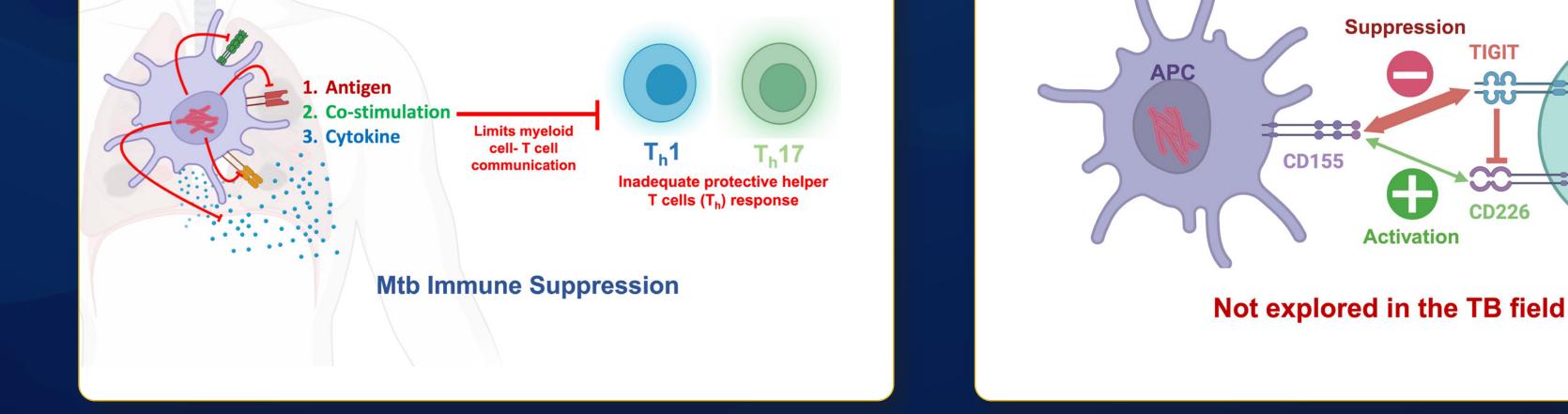
By integrating data across different models, we can better understand Mtb immune suppression and identify targets to improve vaccines and therapies for tuberculosis.

**Tuberculosis: Global Public Health Threat** 

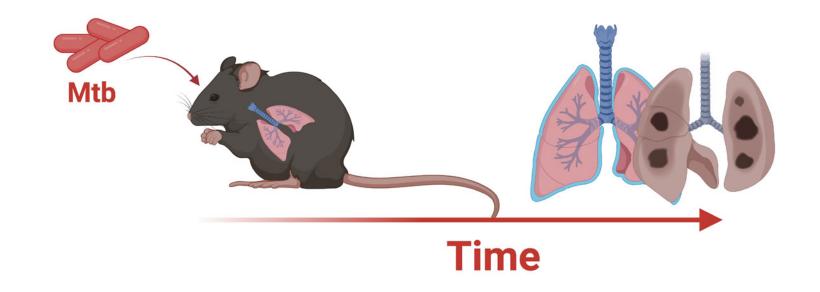
**TIGIT promotes immune suppression in other diseases** 

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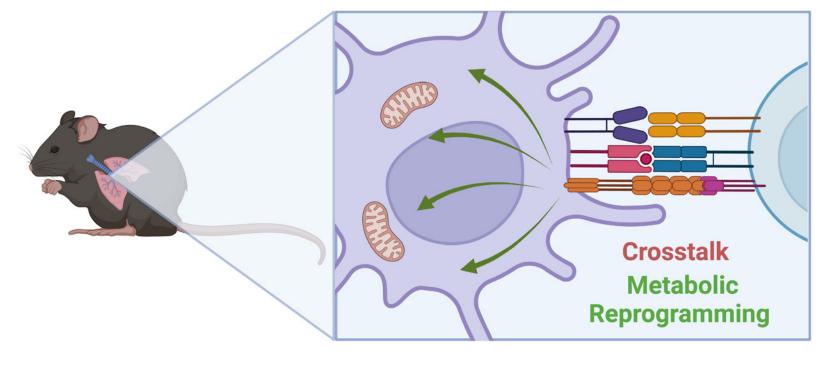
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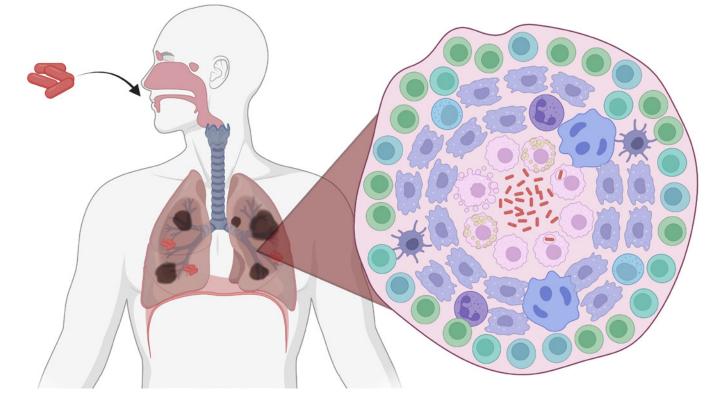
#### How does TIGIT shape tuberculosis disease?



### How does TIGIT impact immune cell communication in TB?

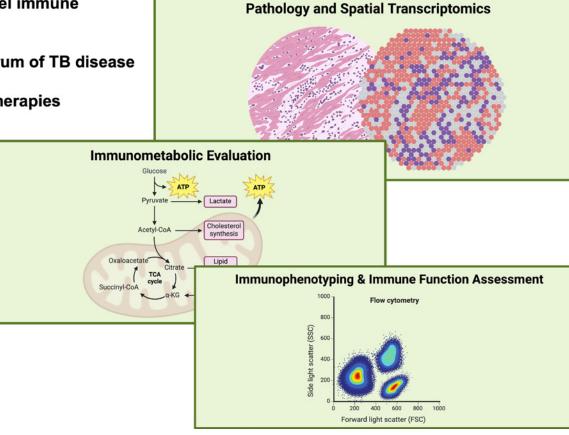


### How does TIGIT regulate granuloma structure and function ?



#### Multi-Approach Strategy

- Gain new insights into a novel immune suppression pathway in TB
- Better understand the spectrum of TB disease
- Develop new vaccines and therapies



#### Scholar Awards Celebration

November 13, 2024



Igniting Innovation in Georgia •