

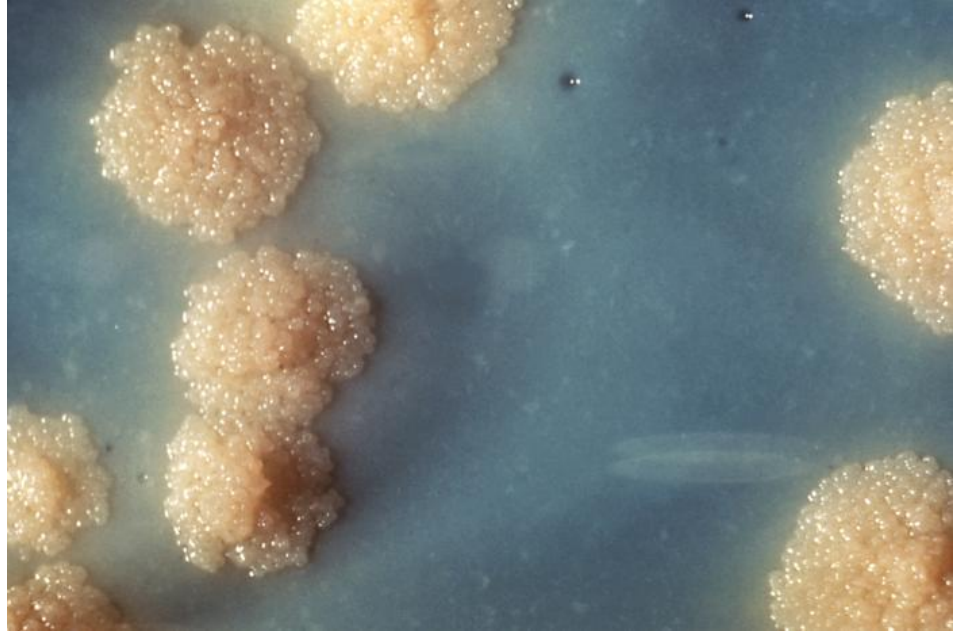
Ancestral Reconstruction of *Mycobacterium Tuberculosis* using BEAST and RASP

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CSC 334

Mycobacterium Tuberculosis

- Bacteria spread through air
- Common in highly populated areas in Asia and Southern Africa
- Largely affects those with compromised immune systems



Motivation

- Data publically available
- Higher-risk for marginalized groups
 - Stigma and co-morbidity
- MultiDrug-Resistance TB

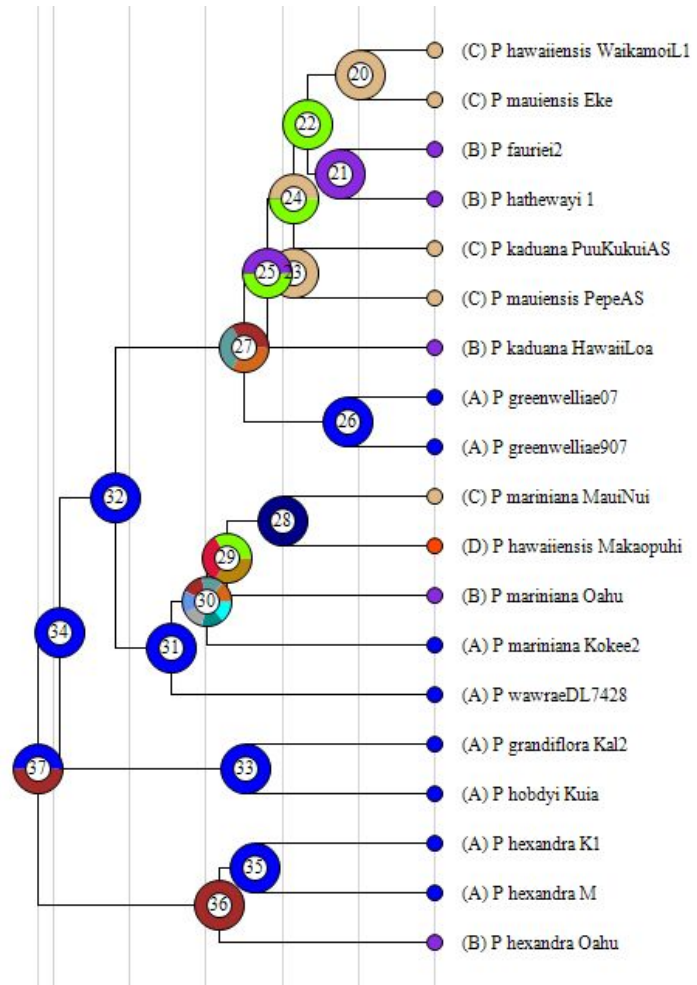
Understanding its evolution allows us to better treat TB and stop its spread.

Methodology

Data from Mycobacterial
Genome Database 2.0

BEAST (And BEAUTi)

RASP 3.2 (Reconstruct Ancestral
State in Phylogenies)



Results/Future Work

- Move to stronger computer(s)
- Debugging Nexus Code
- Recalibrate BEAST
- Run RASP on BEAST tree files

References

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