

# What makes each pathogen tick?

pathogenicity & virulence:  
*pathogen vs non-pathogen*

threat or no threat?  
*parasites vs symbionts*

host-specificity  
*similar pathogens*

environment & adaptation  
*saprophytes vs intracellular*

Conserved vs Unique molecular features  
*Specificity vs Sensitivity*



## Comparative Pathogenomics

*Virulence, Host/Environment Adaptation*

## Molecular Evolution & Phylogeny

*Evolutionary history; Function prediction*