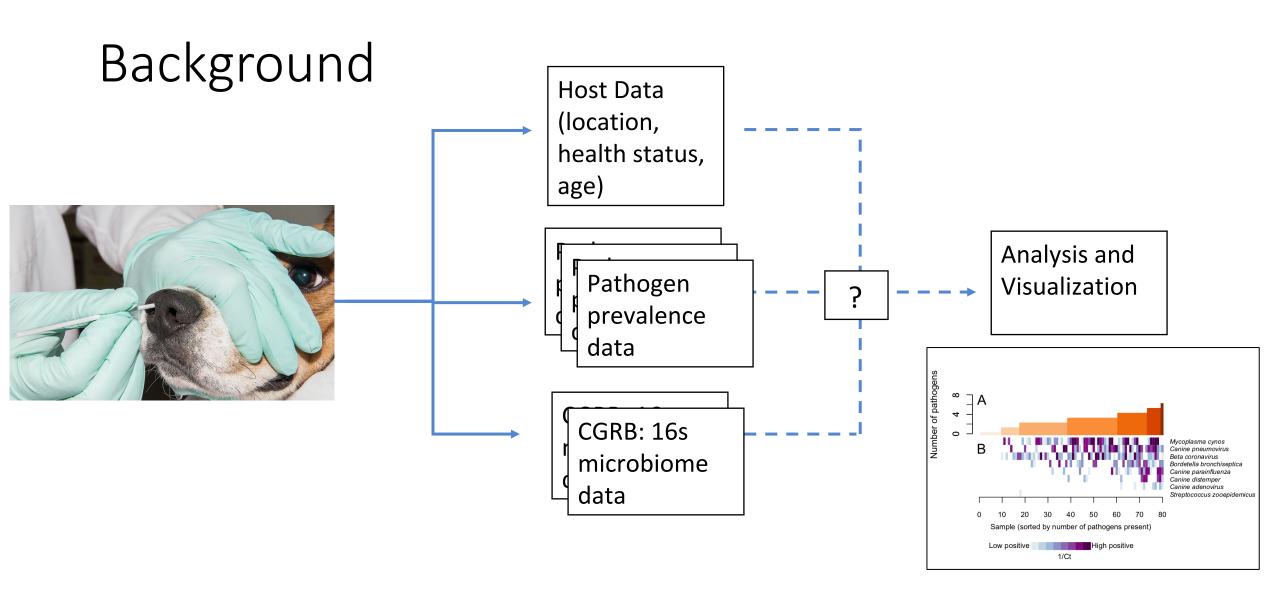
Managing and integrating multiple pathogen and microbiome datasets

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Problem

- Multiple datasets I need to combine and be able to analyze in different ways
 - 1. Sample collection
 - 2. Respiratory pathogen diagnostic panels for each sample
 - 3. 16s microbiome data for each sample
 - 4. Demographic data for each sample
- Experienced trouble identifying and matching samples; no checkpoints, hardcoding
- Multiple copies of raw data



More data collection coming soon!

Potential Approaches

- Best-practices for data management
 - 1. Data repository
 - 2. Combine data sets
 - 3. Clean data sets
 - 4. Reproducibility checkpoints

End Result

- Reproducible workflow that allows me to integrate, manipulate, and analyze datasets
 - Pathogen data analysis
 - Microbiome data analysis
 - Host/demographic data
- Workflow that I can use for future pathogen and microbial abundance data