Unassembled Sequencing Reads

Reference Libraries
- **Target**
  - Pathogen 1, Pathogen 2, ..., Pathogen N
- **Host**
  - Human Chr 1, Human Chr 2, ..., Human Chr X
- **Non-Target**
  - Commensal 1, Commensal 2, ..., Commensal N

Align to Target Library
- Filtered Reads
  - No alignment to target library
  - Alignment to target and host libraries
  - Non-unique between target and non-target libraries

Align to Host Library

Align to Non-Target Library

PathoScope Reassignment
- Pathogen A serotype 1
- Pathogen A serotype 2
- Pathogen A serotype 3

Pathogenic Strain Identification
- Read with ambiguous alignment
- Read with unique alignment