**Closely related Species: Non- Clostridium botulinum**

- Mass Spec RAW files
- Use algorithm to search against selected database
  - Replicate 1 IP
  - Replicate 2 IP
  - Replicate 3 IP
    - BLAST against the NCBI NR database
      - Use in-house script to identify unique peptides
        - Replicate 1 UP
        - Replicate 2 UP
        - Replicate 3 UP
          - Consensus list of unique peptides between replicates
            - Refined list of unique peptides
              - List of unique peptides present in all C. botulinum strains from one algorithm
                - Consensus of candidate biomarkers from all algorithms

**Target Species: Clostridium botulinum**

- Mass Spec RAW files
- Use algorithm to search against selected database
  - Replicate 1
  - Replicate 2
  - Replicate 3
    - BLAST against the NCBI NR database
      - Use in-house script to identify unique peptides
        - Replicate 1 UP
        - Replicate 2 UP
        - Replicate 3 UP
          - Consensus list of unique peptides between replicates
            - Refined list of unique peptides
              - List of unique peptides present in all C. botulinum strains from one algorithm
                - Consensus of candidate biomarkers from all algorithms