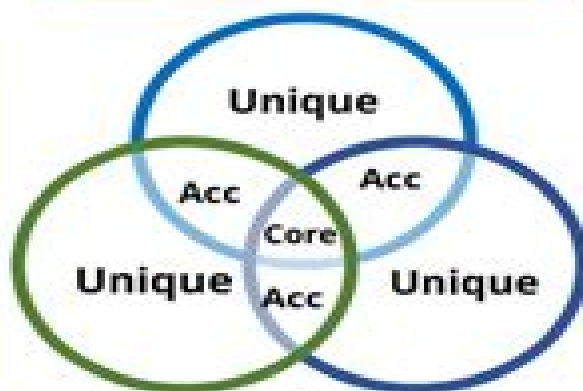


Sequence Retrieval from NCBI

Pan Genome Analysis



Core Proteome

Homology check

Subcellular Localization

Virulency

Transmembrane  
Helices

Physiochemical  
Properties

Essentiality

Potential Vaccine  
candidate

Epitope Prioritization

Multi-Epitope  
Vaccine Construction

- ✓ Add Linkers
- ✓ Add Adjuvants
- ✓ Physiochemical Properties
- ✓ 3-D Structure Prediction
- ✓ Structure Refinement

MEV Processing

- ✓ Molecular Docking
- ✓ Docking Refinement
- ✓ Codon Optimization and Reverse Translation
- ✓ In Silico Cloning
- ✓ Molecular Dynamic Simulations
- ✓ Binding Energies Calculations

- ✓ B-cell Epitope
- ✓ B-cell derived T-cell epitopes
- ✓ Antigenicity
- ✓ Allergenicity
- ✓ Toxicity
- ✓ Solubility

# Bioinformatics For Vaccinology

**Darren R. Flower**



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