

Step 1: Identify Genes of Interest

Team 1 – Identify Known Genes of Interest

- Compiling genes of interest by...
 - Mining harmonizome database
 - Genes associated with chronic illness and viral infection

Team 2 – Identify Genetic Differences Between Diseases

- Common/Distinct differentially expressed genes from diseased (Strep B, RSV, Sepsis, T1D, HSV1) and control genes via Differential Expression



Step 2: Pool Genes of Interest

- Determine overlap between Team 1 and Team 2 genes
- Diagnostic Potential: Predict virus from differentially expressed genes



Step 3: Report Genes of Interest

- Translate genes of interest into an accessible nomenclature
- Transcribe genetic nomenclature into Electronic Medical Records (EMR)