**Identify** publicly gene expression studies curated in BSCE (e.g., search for 'coronavirus studies) Categorize experimental design for logical aggregate analyses (e.g., infected vs control, animal studies, etc) Perform QC and Run aggregate analyses using BSCE visualization : Cluster & Meta-Analysis app for normalized, rank PCA analyses based prioritization of biomarkers Generate Meta-Signatures: using bioset-specific normalized gene scores modified with fold change directionality, sum and take mean Perform compound analysis with BSCE Perform gene network Pharmaco Atlas: Identify candidate analysis using String compounds with potential to reverse dysregulated RNA expression patterns Perform Functional Enrichment in BSCE, GSEA, or Reactome: functionally related gene set analysis to Analyze/Validate with Perform gene perturbation analysis with prioritize and distinguish biological activities published nonRNA BSCE Knockdown Atlas: identify expression data ?? candidate genes with potential to reverse dysregulated RNA expression patterns Generate novel in silico insights for further refinement and experimentation