Topical Areas

• High throughput screening
  – Small molecules
  – RNAi
• High content screening
• Combination screening
• Software development
Challenges

• Not always a big data problem
• Need to bring together many pieces of data
  – Structured & unstructured
  – Enable serendipity but also provide guidance
• Visualization is increasingly important
  – Scatterplots, bar charts still useful
  – e.g., how to efficiently visualize > 400 matrices representing drug combination experiments?
Software Development

• Integrate data sources and data types
• Enable interoperability
• Deploy algorithms and models
• In-house and collaborative
BioAssay Research Database