Analysis of Large Datasets

ISMB 2010 – Bioinformatics Cores
Workshop
Boston, Mass
July 11, 2010





Overview

• 2 Presentations

- ➤ Best practices working with large datasets Dawei Lin
- ➤ Integrating data and meta-analysis of publically available expression array data, looking for shared pathways *Vared Caspi*

Moderated question/discussion session

- Methods for QC
- > Triage of source data
- Open source software
- > Analysis methods
- > Developing software encapsulating new analysis methods

Data "Tsunami"



Hardware for Sequencing



Hardware for Genotyping









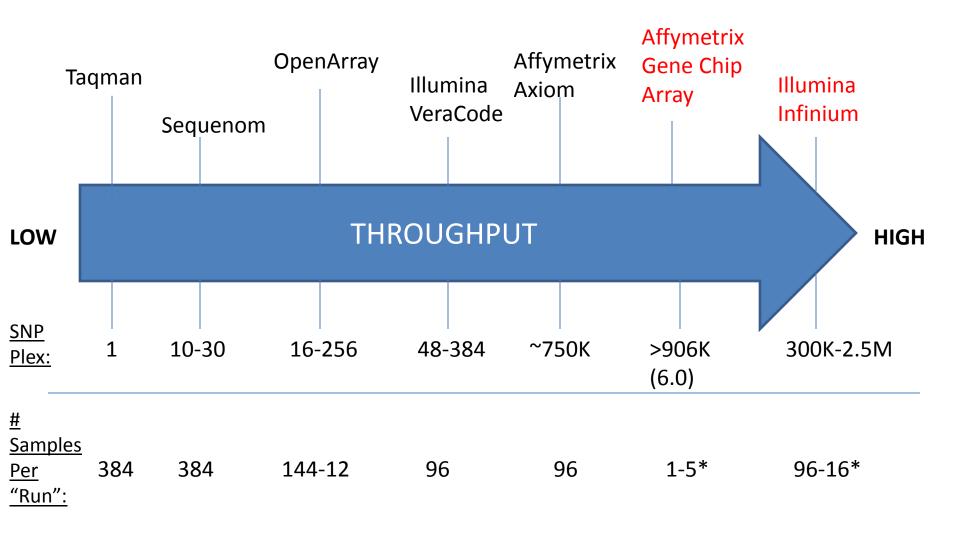








Instrument Throughput





Bioinformatic Challenges Abound

- How/What to store?
- How to process?
- How to analyze?
- How to assess quality?
 - What is quality?
 - How to QC?



Next Generation Sequence Data

