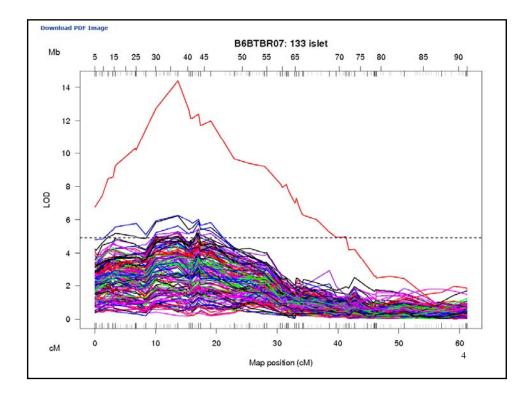
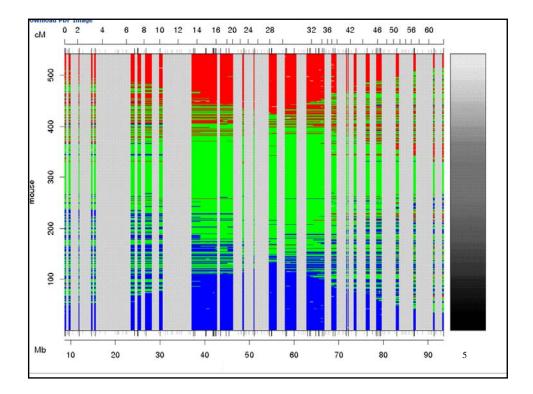
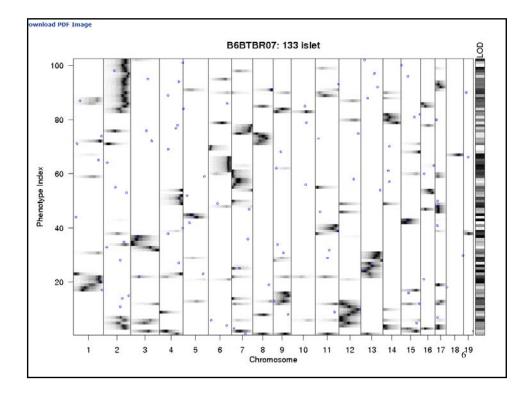


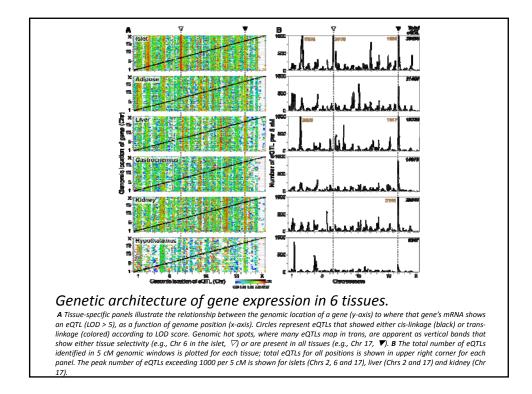
Why study hotspots?

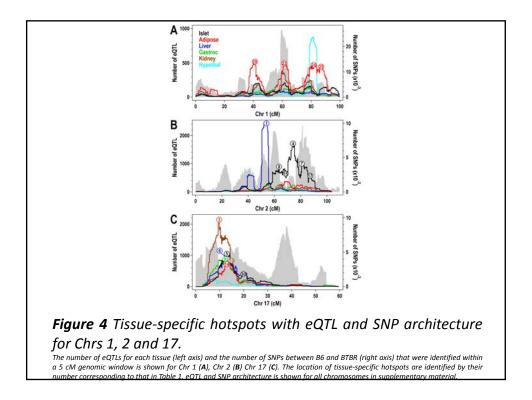
How do genotypes affect phenotypes? genotypes = DNA markers for an individual phenotypes = traits measured on an individual (clinical traits, thousands of mRNA expression levels) QTL hotspots = genomic locations affecting many traits common feature in genetical genomics studies biologically interesting--may harbor critical regulators But are these hotspots real? Or are they spurious or random? non-genetic correlation from other environmental factors

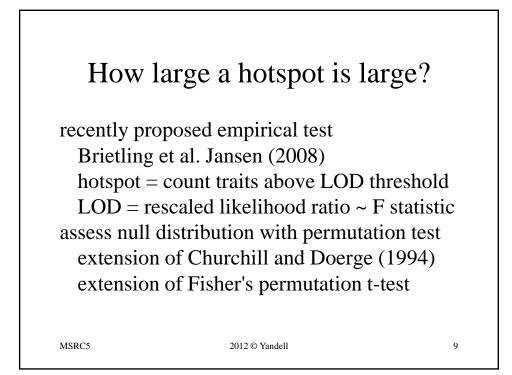


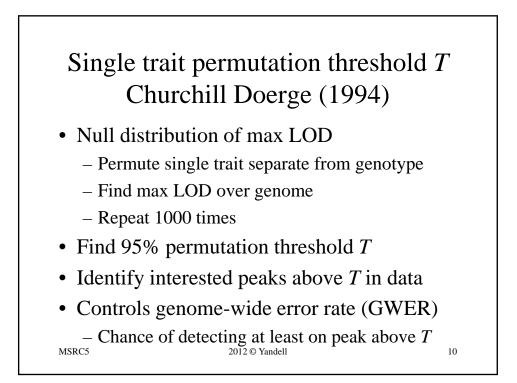


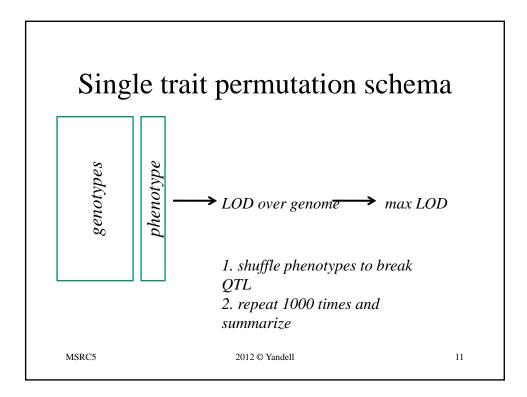


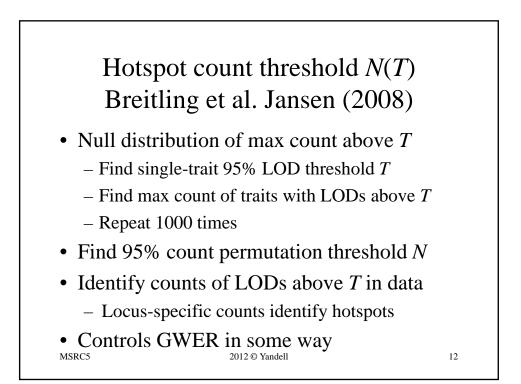


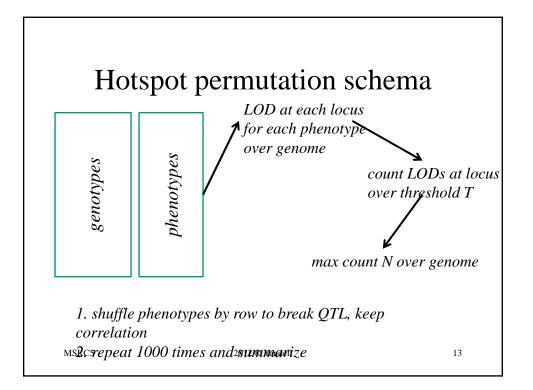


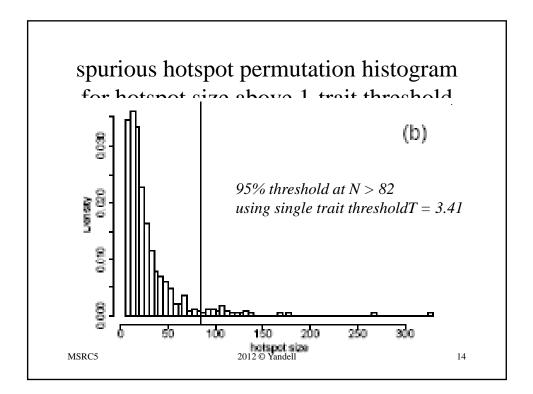


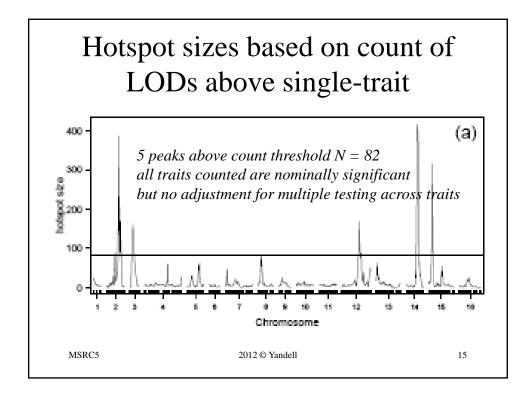


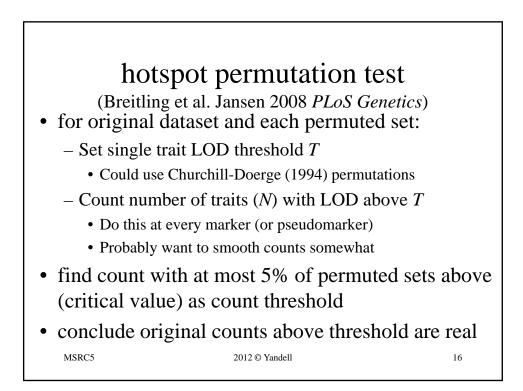


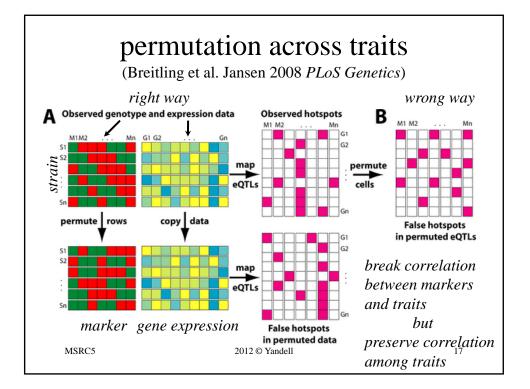


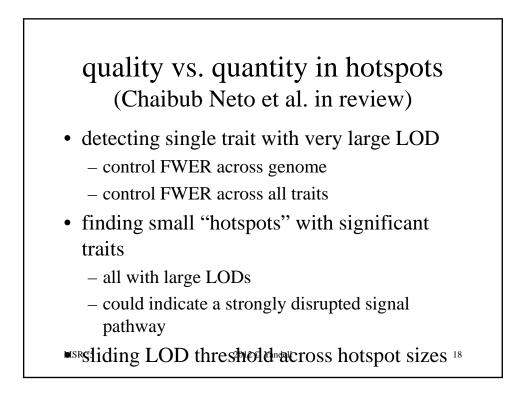


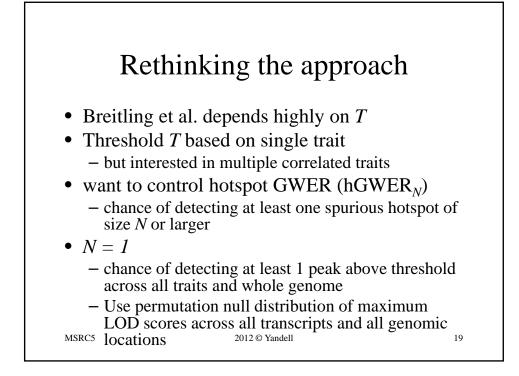


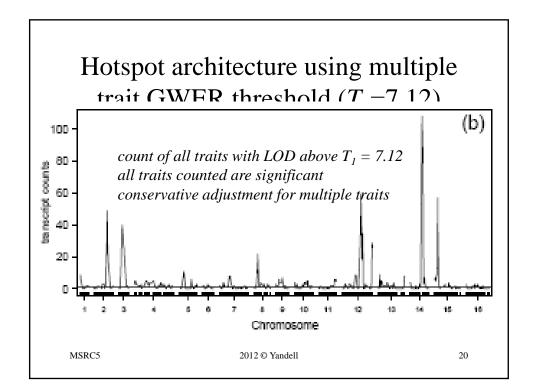


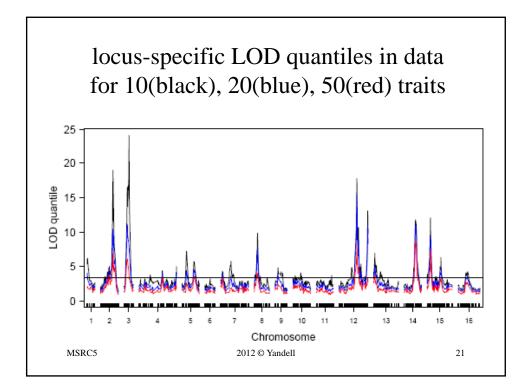


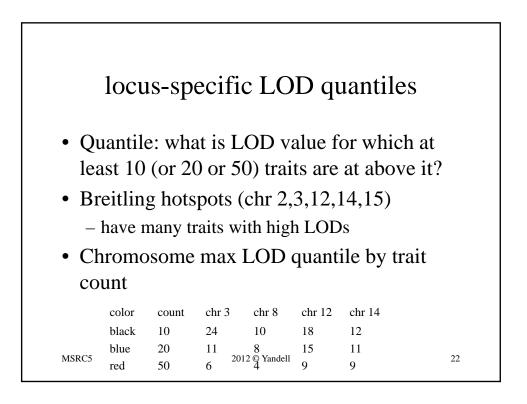


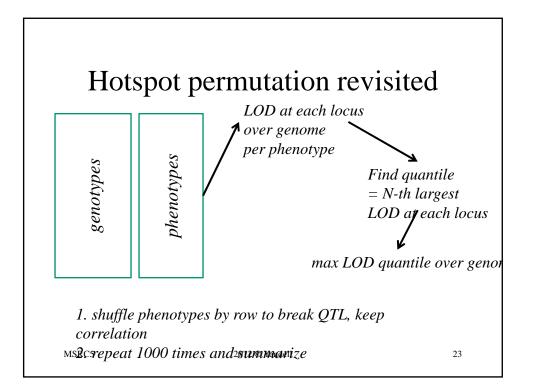


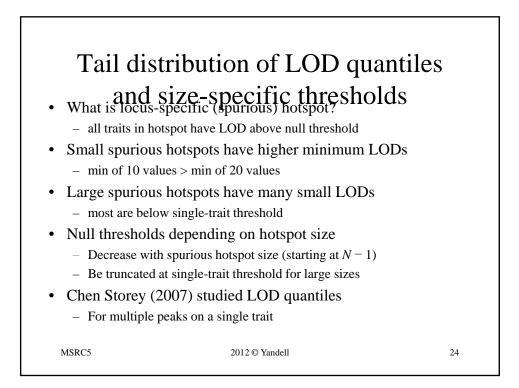


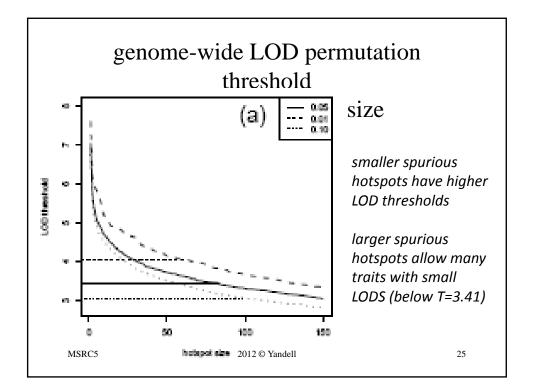


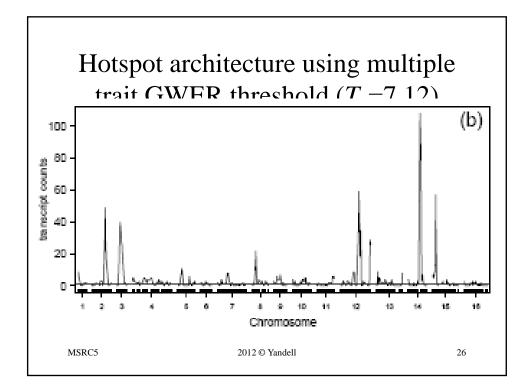


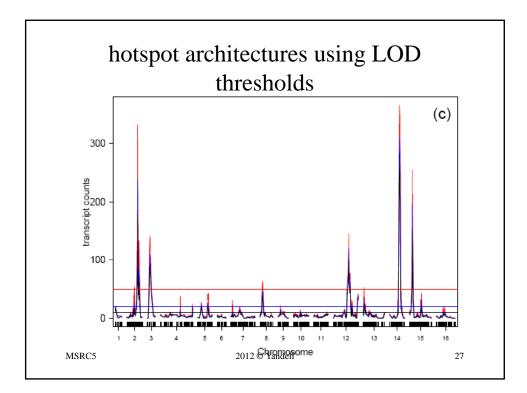


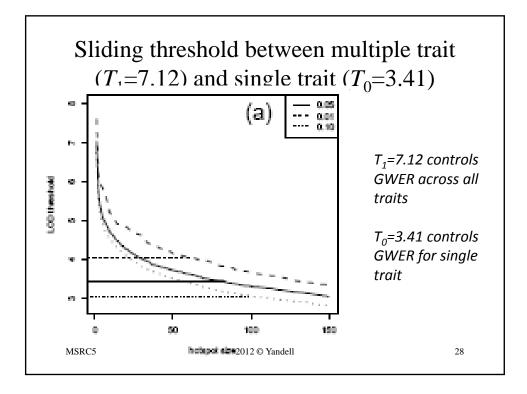


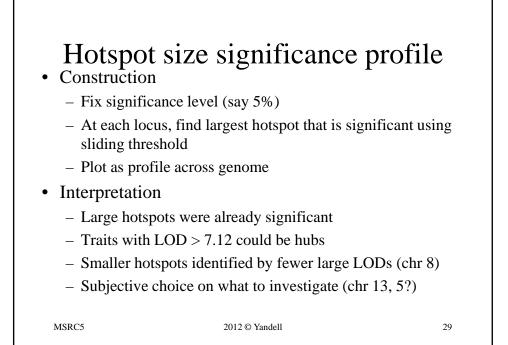


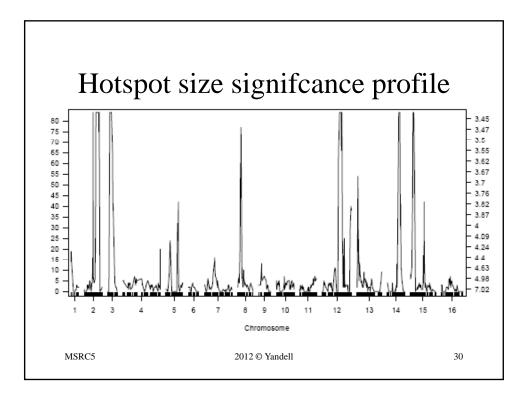


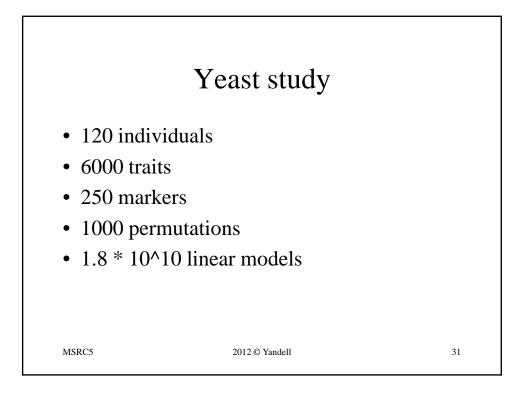


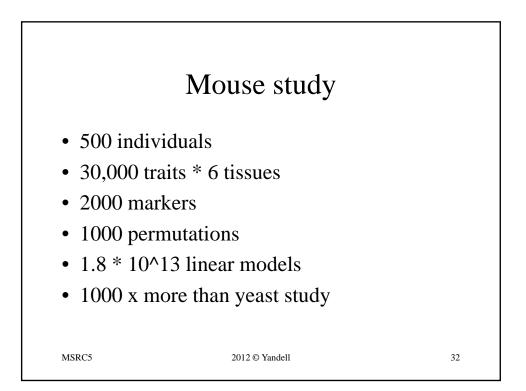


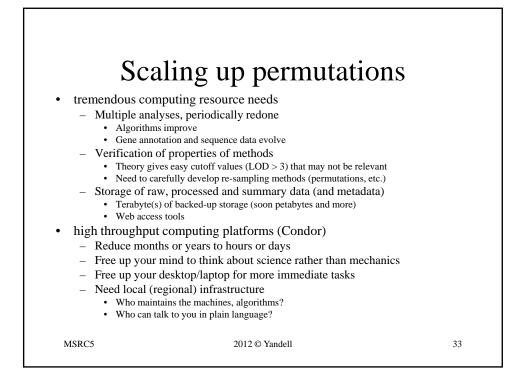


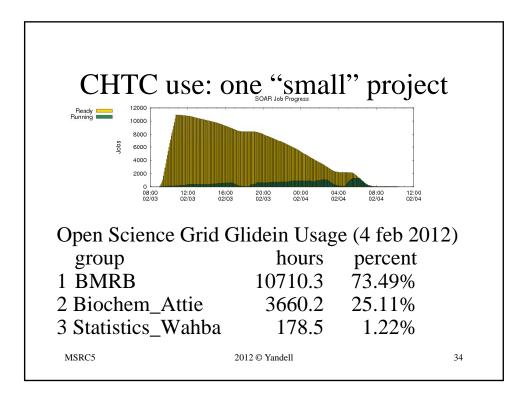


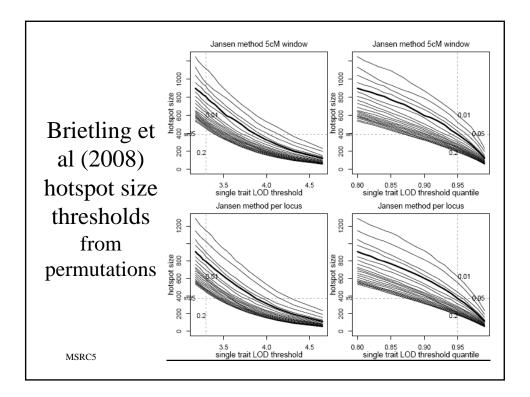


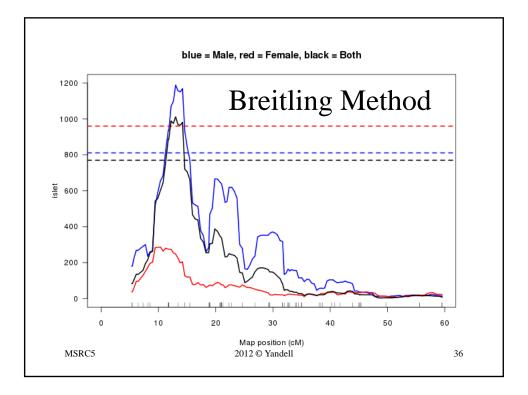


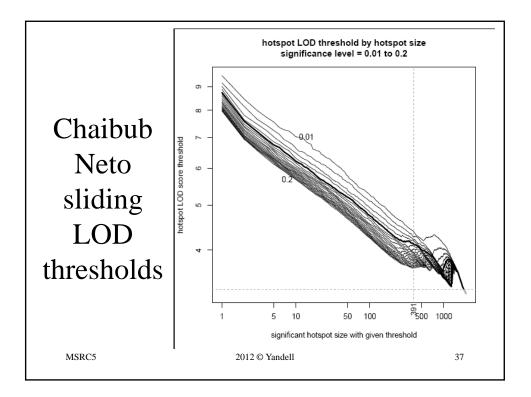


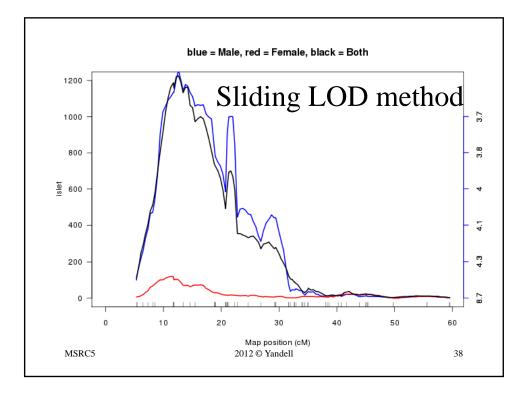












What's next?

- Further assess properties (power of test)
- Drill into identified hotspots
 - Find correlated subsets of traits
 - Look for local causal agents (*cis* traits)
 - Build causal networks (another talk ...)
- Validate findings for narrow hotspot
- Incorporate as tool in pipeline
 - Increase access for discipline researchers
 - Increase visibility of method MSRC5

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