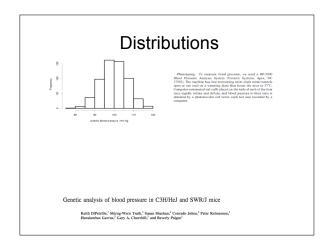


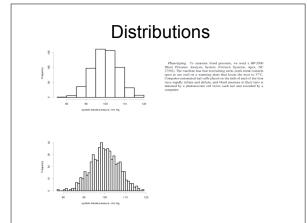


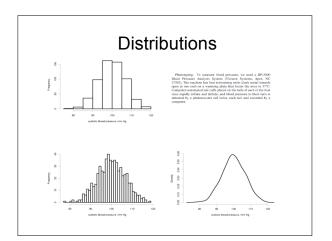
www.jax.org/staff/churchil/labsite/pubs/qtl.pdf

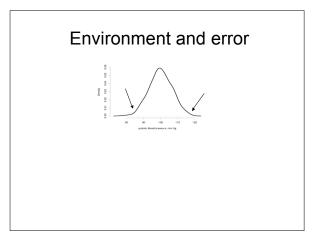
Unlike cystic fibrosis and Huntington's disease, most traits are not yes-or-no.

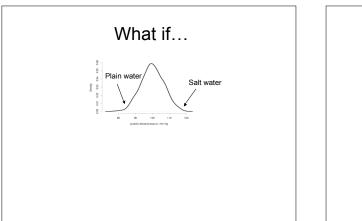
E.g. blood pressure.

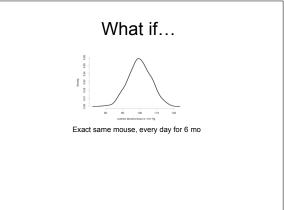


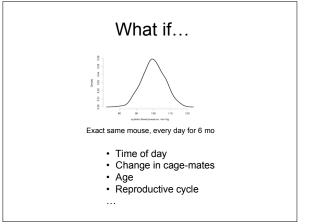


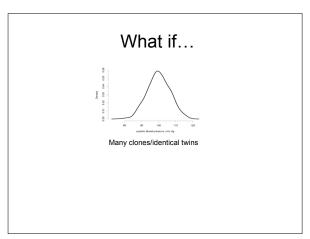


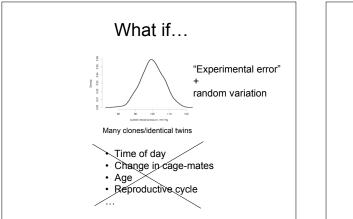


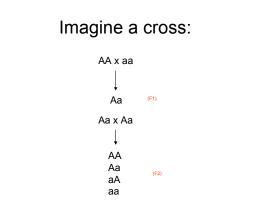


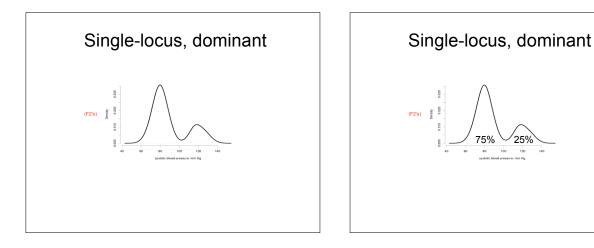


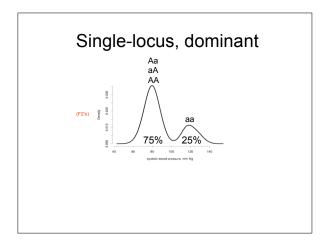


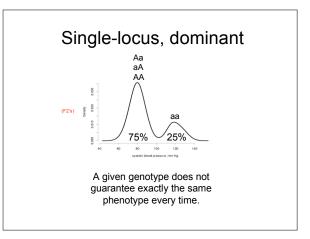


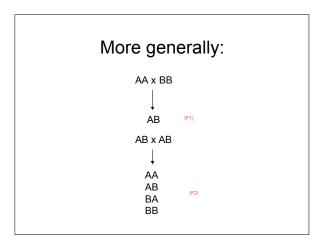


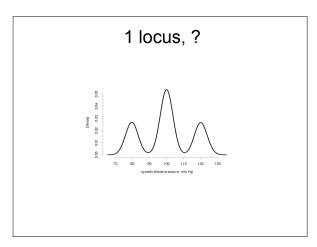


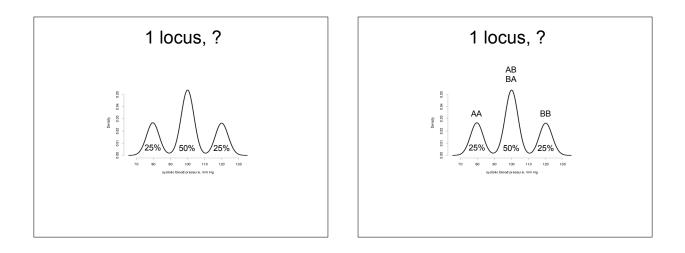


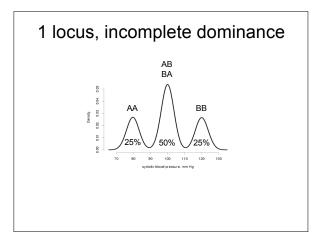


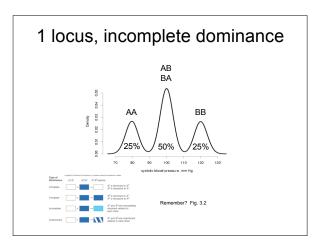


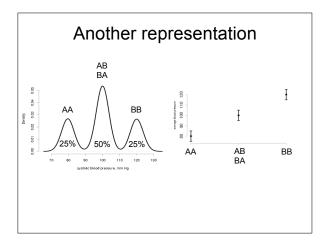


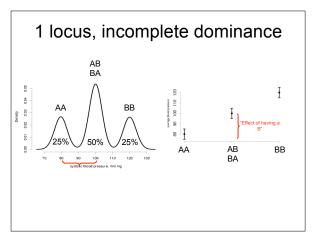


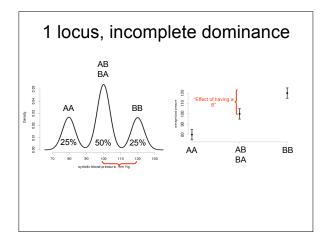


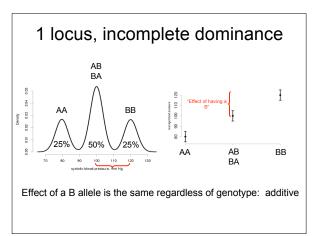


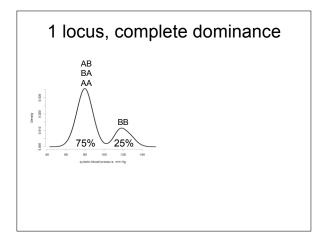


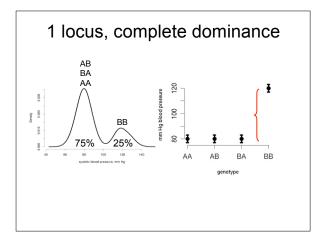


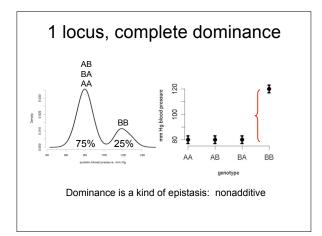


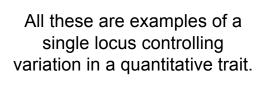




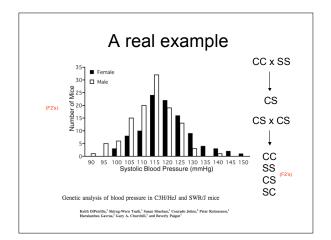


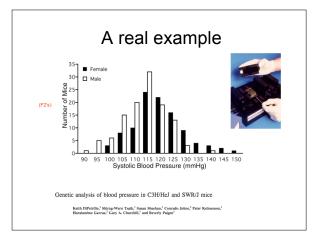


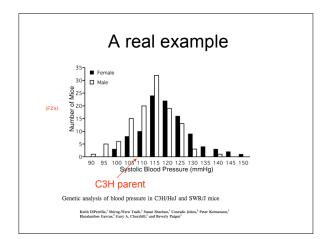


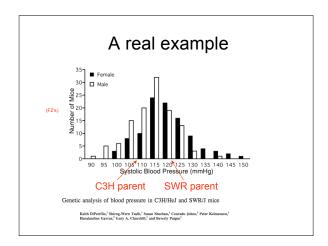


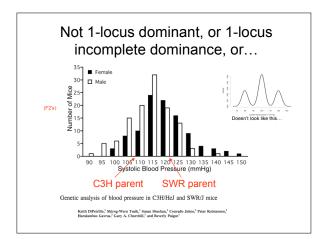
But usually...more complicated.







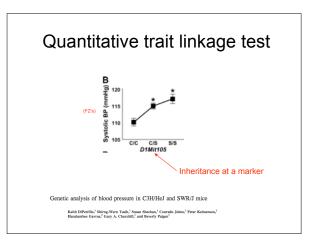


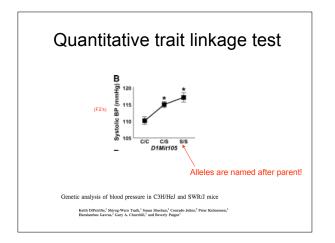


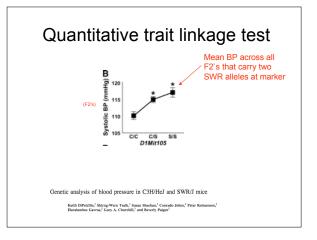
Test for linkage to markers, to find unknown genetic determinants, as before.

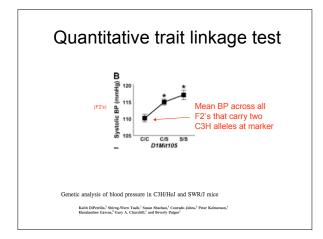
Test for linkage to markers, to find unknown genetic determinants, as before.

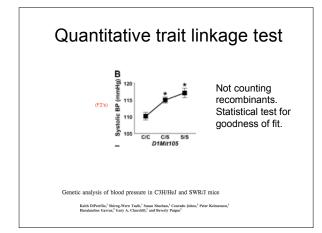
Mechanics of test are different.

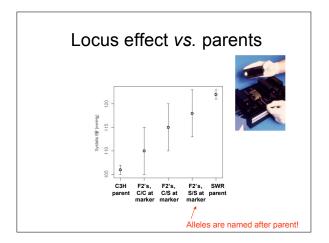


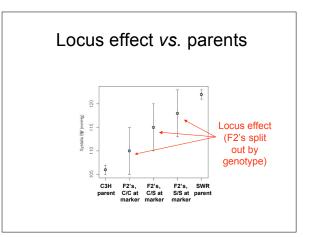


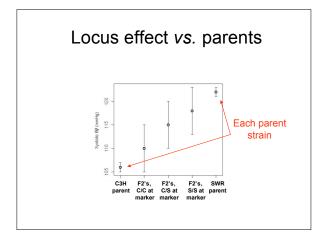


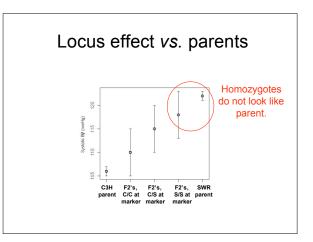


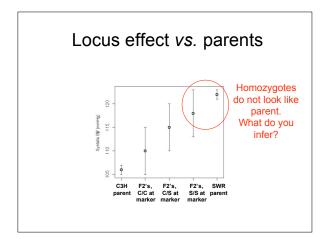


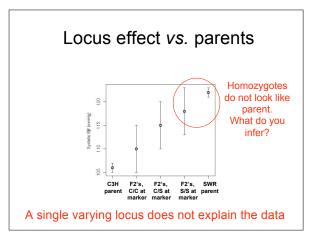


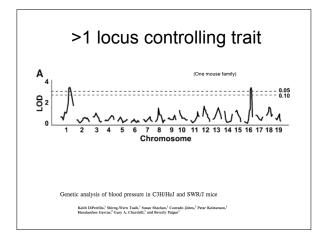


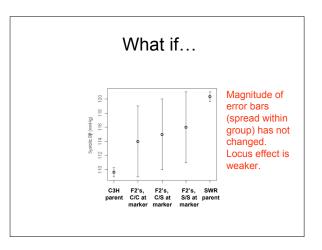


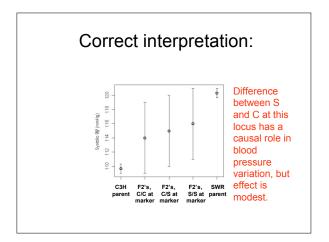


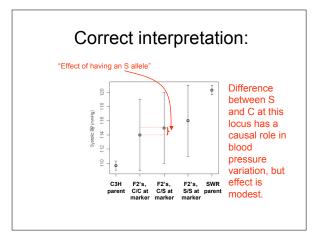


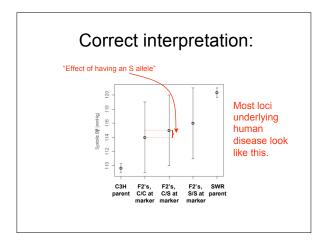


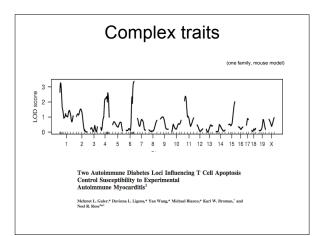


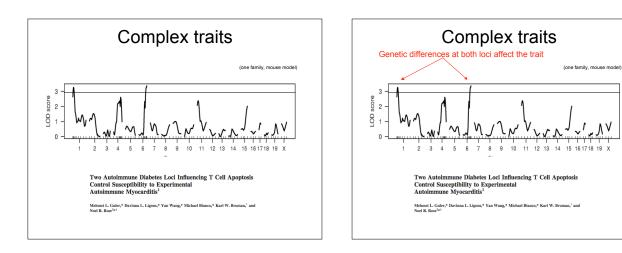


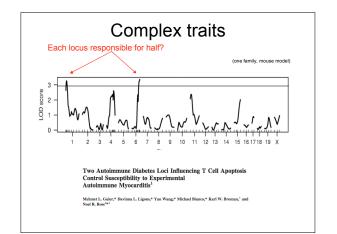


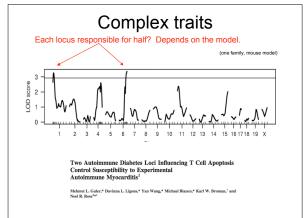


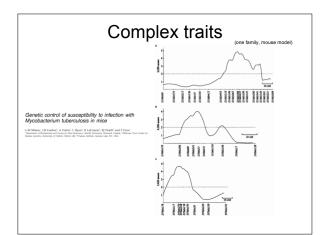


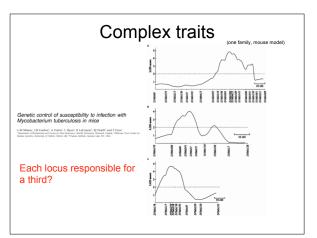












Complex traits

If 5 loci, each responsible for a fifth? 10 loci? ...

The more loci, the smaller the effects and the harder to detect.

Complex traits

One common result of a linkage study is no significant linkage anywhere.

Genetic complexity is the rule; simple 1or 2-locus models are the exception

We haven't talked about humans lately...

With model organisms, can always study a single cross/family with lots of progeny, so better statistical power to detect weak loci.

And less chance of locus heterogeneity.

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