



Association analysis

- Genotyped using Sequenom MALDI-TOF mass spectrometry

Normal
n = 592

- Healthy
- Market weight
- Sourced at slaughter

Diseased
n = 421

Diseases

- Pneumonia
- Enteritis

Agents

- *E. coli*
- *Salmonella*
- *APP*
- *H. parasuis*

- Serositis
- Septicemia
- *Mycoplasma*
- *S. suis*
- Influenza
- PRRS
- PCV2

Linkage disequilibrium

- “A nonrandom association of alleles at two or more loci” Slatkin, 2008. Nat Rev Genetics, 9:477
 - Can you predict allele 1 if you know allele 2?
- Performed using Haploview v.4.2
 - Excluded variants present in $< 50\%$ of samples
 - Excluded animals missing $> 50\%$ of queried loci

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