Association analysis

 Genotyped using Sequenom MALDI-TOF mass spectrometry

Normal n = 592	
 Healthy Market weight Sourced at slaughter 	

Diseases Pneumonia

Enteritis

<u>Agents</u>

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

Serositis

Diseased

n = 421

- 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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Normal Diseased n = 592n = 421 Serositis <u>Diseases</u> Pneumonia Septicemia Healthy Enteritis Market weight Sourced at Mycoplasma <u>Agents</u> slaughter • E. coli • S. suis Influenza Salmonella APP PRRS • H. parasuis PCV2