Influenza Virus in pigs

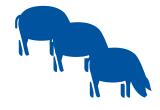


- Swine Influenza Virus is a BSL-2 organism
- Human Influenza strains can originate from swine
- Pigs relevant host to study swine
 Influenza as well as human
 Influenza outbreaks
- Vaccination challenge studies
- Pathogenesis / Virulence studies
- Transmission studies





Study design: Influenza Virus in pigs



- High health or SPF pigs
 - 9 weeks old
 - No (maternal) antibodies against Influenza



- Several groups of up to 10 animals
- Intranasal inoculation by nebulization
- Several virus strains available
 - H_1N_1 , pH_1N_1 , H_3N_2 , H_1N_2
 - Different geographical locations



- Clinical observations
 - Clinical symptoms: signs of illness
 - Rectal body temperature





Parameters: Influenza Virus in pigs

- Virological assays
 PCR detection, virus titration,
- Serological assays

Virus neutralization, haemagglutination inhibition, seroconversion

Samples

Oropharyngeal & nasal swabs, tissue samples, blood, broncho-alveolar lavage, air samples

Pathology

Gross pathology, (immuno)histology



