

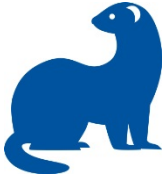
# Influenza virus in ferrets



- Highly pathogenic avian Influenza (HPAI) is a notifiable disease (BSL-3)
- Humans less susceptible to AI due to difference in receptor for HPAI
- Ferret similar receptor as humans
- Suitable for human pathogenesis studies on Influenza
  - Test mutants on virulence

# Study design:

## Influenza virus in ferrets



- Ferrets of variable age
- Housing facilities suitable for several groups and large numbers of animals



- Several HPAI or LPAI viruses available
- Intranasal / intratracheal inoculation under anaesthesia

- Monitoring clinical disease



- Clinical symptoms
- Body temperature
- Body weight

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# Parameters:

## Influenza virus in ferrets

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- Virology
  - Virus replication on throat swabs and organs (by titration or PCR)
- Immunology
  - Serological responses
  - Cell-mediated responses
- Pathology
  - Gross and histo-pathology

