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Area of Expertise:

- Biology of economically important animal viruses
- Viral diseases of poultry
- Vaccine development

Focus of Research:

- Molecular biology of Newcastle disease virus
- Understanding the mechanisms how Newcastle disease virus causes disease in chickens
- Effective vaccine development of Newcastle disease virus, infectious laryngotracheitis, infectious bursal disease, infectious bronchitis virus and avian influenza
- Use of Newcastle disease virus as a vaccine vector for human diseases

Current Funded Projects (Source):

- Newcastle Disease Virus Vected Vaccines for Poliovirus Infection (NIH)
- Newcastle Disease Virus Vected Vaccines for Human Immunodeficiency Virus (NIH)
- Generation and evaluation of avian paramyxovirus vectored vaccine candidates for poultry pathogens ILTV, IBV, HEV and NDV (Elanco)