



Dynamics of influenza infection in swine populations

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The main objective of this project is to understand the epidemiology of influenza viruses in swine, and to design optimal control and surveillance strategies at herd and regional levels.

Summary

During this project, the researchers will work to:

- determine the whole nucleotide sequence of influenza viruses that currently circulate in swine; this in order to understand large scale trends and the extent of influenza virus variability over time in representative production systems. This work includes:
 - evaluation of patterns of influenza transmission in multi-source all-in all-out nursery herds by barn,
 - evaluation of influenza virus transmission between sows and suckling piglets, and,
 - further assessment of influenza genotypes commonly circulating in swine populations.
- To develop a real-time statistical outbreak detection system, and test various surveillance and sampling systems

Collaborators

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