



# Development of a multiplex Luminex immunoassay for serologic diagnosis and subtyping of swine influenza virus (SIV) infections

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The main objective of this project is to develop a multiplex immunoassay to identify antibody response to SIV infections rapidly and identify the influenza hemagglutinin (HA) and neuraminidase (NA) subtype.

## Summary

The recent 2009 H1N1 flu pandemic that emerged in Mexico highlighted the importance of pigs as intermediate hosts through which avian viruses adapt to mammals before emerging in humans.

**During this project, the researchers will develop:**

- serological tests for SIV antibody detection and subtyping using the Luminex suspension microarray.
- a single test that will differentiate between antibodies produced in response to SIV vaccination and those produced in response to natural SIV infection.

### Collaborators

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