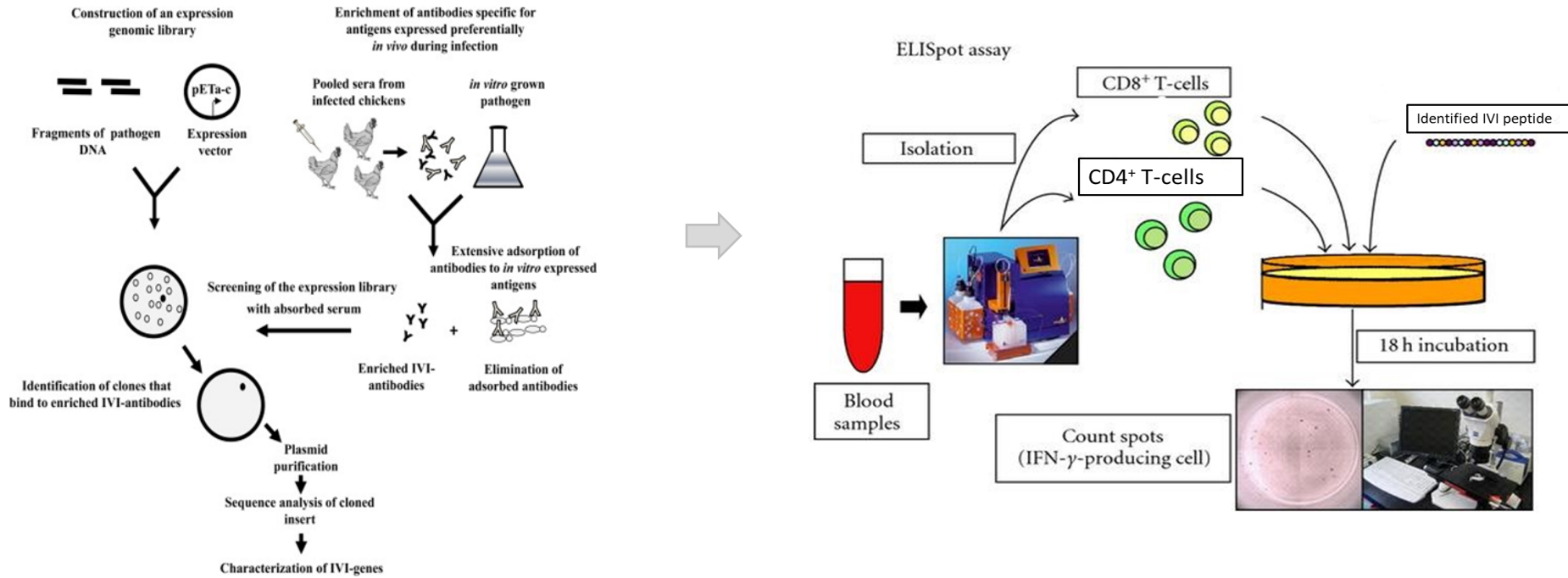


# Surveying Salmonella antigens for use in a bacteriophage-based vaccine enabling homologous and heterologous protection and colonization-inhibition effect in poultry.

December 2020-November 2021



## Objectives

- Identifying antigens targeting different *Salmonella enterica* serovars from different species of poultry such as broilers, layers and indigenous chicken.
- Displaying these antigens targeting the different serovars as part of a virus (bacteriophage) nanoparticle structure or vesicles in order to produce better sustainable multivalent vaccines that will elicit mucosal and systemic immune responses.
- Testing the oral route of administration as this is desirable because it offers a relatively simple means of mass vaccination.

**PIs:** Angela Makumi

### Mentors:

Dr. Nicholas Svitek: Local mentor (ILRI) and Dr. Andrea McWhorter: International Mentor (University of Adelaide)

**Funding:** IVVN and IDRC

## Highlight of 2020 achievements

- Conducted a meeting with international and local mentors on experimental plan and commencement.