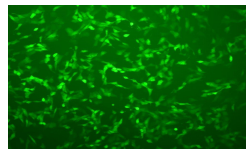
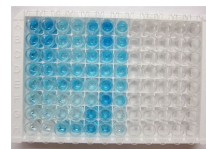


All ASFV-ORFs  
cloned into  
expression  
plasmids



Antigens  
expressed in  
mammalian cells



Tool for antibody  
reactivity screening.

## ASFV antigen screening using a plasmid DNA library

April 2020 – March 2021



International Veterinary  
Vaccinology Network



### Objectives

- 1) Screening of domestic pig anti-sera to ASFV to identify new protective antigens.
- 2) Screening of warthog anti-sera to ASFV to identify new protective antigens.
- 3) Generate new tools and reagents for routine ASFV work.

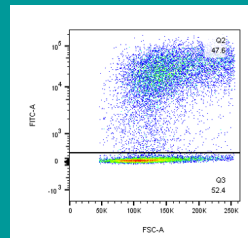
**PIs:** Anna Lacasta

**Partners:** Institut de Recerca i Tecnologia Agroalimentaries – Centre de Recerca en Sanitat Animal (IRTA-CReSA), Barcelona.

**Funding:** International Veterinary Vaccinology Network (IVVN).

### Highlight of 2020 achievements

- Development of a new infectivity assay using fluorescent virus, to be used in seroneutralization assays in future.



Around 50% of the cells infected after 48h infection (MOI 1).

- Acquisition of the first 16 ASFV ORFs cloned in plasmids expressing key surface antigens of the virus.