

Appendix C: Milestones 2019-2024

Based on different units' research commitments we can now anticipate the outcomes listed for the following project objectives

NC229	2019 (4 mos)	2020 (12 mos)	2021 (12 mos)	2022 (12 mos)	2023 (12 mos)	2024 (8 mos)	Projected major outcome for each objective
Objective 1 (PRRS)							
1.1 PRRSV immunity and vaccinology	→						<p>Cross protection amongst PRRSV strains becomes feasible Cross protection amongst PRRSV strains and alternative or combinatorial methods of prophylaxis becomes feasible</p> <p>Useful host genetic resistance and vaccine response markers identified</p> <p>Cost benefit vaccination programs for farm and regional shedding impact completed</p>
1.2 PRRSV epidemiology	→						<p>Full understanding of contemporary PRRSV strains for optimal herd stability time</p> <p>Effective biosecurity barriers perfected and completely understood</p> <p>Better data analytics to manage, predict and prevent new infections and the disease</p>
1.3 PRRSV surveillance and Diagnostics	→						<p>Testing and surveillance strategies developed to support reducing impact of PRRS by 20% on 2020/2021</p>
	→						<p>Increased capacity to achieve accurate assessment of infection status of a site as incidence of PRRS decreases</p>
Objective 2 (Other-than-PRRS swine emerging viral diseases)							
2.1 ASFV	→						<p>ASFV strain variation understood</p> <p>Feasibility of vaccination continuous & actively investigated</p>
	→	→	→	→	→	→	<p>Permanent updating of domestic ASFV surveillance and testing</p>

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<p>2.2 Swine Influenza V</p>							<p>Heterologous protection X swine influenza achieved</p> <p>More complete understanding of swine influenza epidemiology achieved: emergence, maintenance, transmission and spread of influenza viruses within and between swine populations and between pigs and people</p> <p>More comprehensive biosecurity programs directed at decreasing influenza prevalence and incidence</p>
<p>2.3 Porcine Circovirus</p>							<p>Complete understanding of PCV3 molecular genetics, pathogenesis and vaccinology</p>
<p>2.4 Swine pestiviruses</p>	 						<p>Complete understanding of pathogenesis of swine atypical pestivirus is achieved</p> <p>A perfected DIVA test for CSFV developed</p>
<p>2.5 Senecavirus</p>							<p>Full understanding of pathogenesis and prevention of Senecavirus in swine is achieved</p>
<p>2.6 Sapelovirus</p>							<p>Full understanding of pathogenesis and prevention of apelovirus is achieved</p>
<p>2.7 New swine viruses of interest for xeno-transplants or public health</p>							<p>Role of Torquetenovirus in swine and public health is attained</p>