

A3GP Summary of Successful LOIs

#	Project Leader		Project co-leader(s)		Lead institution	Project Title
	Last name	First name	Last name	First name		
6	Chatterton	Syama			Agriculture & Agrifood Canada	Multi-pathogen, multi-crop disease forecasting network for Alberta
10	Cribb	Alastair	Basarab	John	University of Calgary	Association of Genomic Retained Heterozygosity and Proportion of Heterozygosity with Health Outcomes in Crossbred Beef Cattle
11	Croxen	Matthew	Willing	Ben	ProvLab	Metagenomic assembly of microbes from the pig intestinal microbiome
13	De Buck	Jeroen	Barkema	Herman	University of Calgary	Development of an alternative therapeutic for controlling mastitis in dairy cows
16	Facchini	Peter	Tucker	Joseph	University of Calgary	Development of a fermentation-based opiate production platform using plant genomics
18	Foroud	Nora	Laroche	Andre	Agriculture & Agrifood Canada	A functional genomics platform to characterize pathogenicity factors
25	Guan	Leluo	McAllister	Tim	University of Alberta	Bovine genotypes associated with the rumen microbiome: future strategies to breed for a more efficient rumen
37	Li	Changxi	Basarab	John	Agriculture & Agrifood Canada	Development of functional genomic prediction platform for industry application
38	McAllister	Tim	Guan	Leluo	Agriculture & Agrifood Canada	An "omics" approach to the identification of new therapeutic targets for the prevention of liver abscesses in feedlot cattle
42	Niu	Dongyan	Wasmuth	James	University of Calgary	Simultaneous identification and virulence profiling of pathogens in food products and processing environments: proof-of-concept using Nanopore metagenomic sequencing
44	Otto	Simon	Dorin	Craig	University of Alberta	Distributed genomic diagnostic network to inform prescribing of antimicrobials in food-production animals
45	Plastow	Graham	Doeschl-Wilson	Andrea	University of Alberta	Investigating infectiousness of pigs selected for multi-factorial resilience or increased resistance to PRRS.
47	Plastow	Graham	Harding	John	University of Alberta	Is PRRSV-induced fetal death associated with thyroid disruption predicted by DRGA0008048 on SSC7?
49	Rahman	Habibur	Uhrig	Richard Glen	University of Alberta	Fine mapping, identification and characterization of the candidate genes controlling clubroot resistance in Brassica through whole genome re-sequencing and RNA-seq approaches for use in B. napus canola breeding
52	Ro	Dae-Kyun	Samuel	Marcus	University of Calgary	Genome-enabled identification of mutant alleles for improved canola meals
53	Samuel	Marcus			University of Calgary	Genomics driven development of drought tolerant wheat cultivars
59	Stothard	Paul	Plastow	Graham	University of Alberta	Using machine learning to identify pigs with superior disease resilience to improve animal health and the sustainability of pork production
60	Taboada	Eduardo	Inglis	G. Douglas	Public Health Agency of Canada	Comparative genomics of Campylobacter strains prevalent in Canadian poultry production associated with human disease: identification of biomarkers relevant to the development of targeted mitigation strategies.
64	Willing	Benjamin	Dyck	Michael	University of Alberta	Manipulating the early life microbiome to support disease resilience in pigs
68	Zantinge	Jennifer	Capettini	Flavio	Alberta Agriculture & Forestry	The deployment of next generation genotyping (NGG) tools for accelerating genomics-assisted breeding.
69	Zantinge	Jennifer	Capettini	Flavio	Alberta Agriculture & Forestry	Development and genetic characterization of advanced Nested Association Mapping (NAM) genetic populations based on Alberta adapted germplasm.