

Table 1

Ontario Genomics - Agriculture, Agri-Food and Aquaculture Projects			
Program		Title	Total Project Funding
Genomic Applications Partnership Program (GAPP)	1	Increasing Yield in Canola Using Genomic Solutions	\$3.7M
	2	Translating OMICS for competitive dairy products	\$1.3M
	3	Application of genomic selection in turkeys for health, welfare, efficiency and production traits	\$6M
	4	A genetic toolbox for tomato flavour differentiation	\$1.8M
	5	Genomics for a competitive greenhouse vegetable industry	\$2.4M
	6	Genomics Driven Engineering for Bio-Nylon	\$5.7M
	7	Commercial application of genomics to maximize genetic improvement of farmed Atlantic salmon on the East coast of Canada	\$3.8M
Pre-commercial Business Development Fund (PBDF)	8	New acquired immunity chemicals for soybean crops	\$200k
	9	Reducing boar taint in pigs through the use of genetic markers	\$364k
	10	Transgenic Plants with Enhanced Agronomic Traits	\$20k
	11	DNA probe identification and testing for use on 3D-biochip product	\$310k
SPARK Program	12	CRISPR/Cas9 conjugative plasmids for microbiome control	\$25k
	13	Discovery of the microbiome of corn silks: The entry point for fungal pathogens including Fusarium	\$25k
	14	Developing biosensors to promote healthy plant growth	\$25k
	15	Developing diverse chemical libraries	\$25k
	16	Methane to bioplastics: Bacterial strains for production of high value bioplastics on methane feedstock	\$30k
Large Scale Applied Research Project (LSARP) Competition	17	Increasing feed efficiency and reducing methane emissions through genomics: A new promising goal for the Canadian dairy industry	\$10.3M
	18	Sustaining and securing Canada's honey bees using 'omic tools	\$7.3M
	19	Towards a sustainable fishery for Nunavummiut	\$5.6M
Disruptive Innovations in Genomics (DIG) Competition	20	Development of advanced genetic toolbox for Sinorhizobium meliloti to enable genome scale engineering	\$250k
	21	A cell reporter system for the functional screening of insect odorant	\$234k
Bioinformatics and Computational Biology (B/CB) Competition	22	ePlants pipeline and navigator for accessing and integrating multi-level 'omics data for 15 agronomically important species for hypothesis	\$250k
	23	Applying genomic signal processing methods to accelerate crop breeding	\$220k
	24	Large Data Sets and Novel Tools for Plant Biology for use in International Consolidation-Tier Data Repositories	\$1M
	25	Metabolomics Profiling of Polyphenolics in Ice Syrup Grape Pomace	\$21k
Seed Funding	26	Development of a model system for crop development in monocots using Brachypodium distachyon	\$25k
	27	Microbial community analysis related to plant growth promotion by Spanish River Carbonatite	\$28k
	28	Understanding the Role of Microorganisms in a Highly Productive Corn	25k
	29	Development of Allele-specific Markers to Identify Compatibility of Hazelnut Varieties	\$25k
	30	Canada's Ten Thousand Genome Project	\$25k
	31	Development of Genetic Markers for Genetically-assisted Breeding of Mite-resistant Honey Bees in Ontario	\$26k
Competition II	32	Functional genomics of Arabidopsis	\$1.8M
	33	Functional genomic analysis of soil micro-organisms	\$5.8M
ABC	34	Genomics for Crop Improvement: Agricultural Pest Management (GAP-	\$6.4M

Projects include both Genome Canada and Ontario Genomics funding programs