

Alberta ACAAFF Advance

Advancing Canadian Agriculture and Agri-Food

Project List June 2009

Recent Alberta ACAAFF Projects Contracted March - June 2009

Applicant	Title	Description	ACAAFF Alberta Funding
PILLAR I			
AB0458 University of Alberta	Poultry embryonic metabolism, cell viability, and gene expression: The influence of egg storage	This research will focus on identifying the basic biological reasons why embryonic growth and hatchability are negatively affected. Ultimately this research may pave the way for solutions to the production inefficiencies created by egg storage.	\$84,341
AB0455 University of Alberta	The Use of Infrared Thermography to Assess the Health and Viability of Broiler Embryos and Broiler and Turkey Hatchlings	The goal of this research is to identify whether IRT can be used to identify diseases, omphalitis and red hock infections, and potential production issues in the hatchery and grow-out barns.	\$45,938
BC0127CO University of British Columbia	Biology and management of invasive species hoary alyssum (<i>Berteroa incana</i>)	Improve understanding of the biology and ecophysiology of hoary alyssum and provide information that could be exploited to develop effective management strategies for this weed.	\$8,025 (Collective Outcome Project - Investment Agriculture Foundation of BC lead)
BC0125CO University of British Columbia	<i>Apis mellifera</i> : Proteomics for Innate reSistance (APIS)	Identify protein expression patterns that accurately predict resistance to <i>Varroa destructor</i> (Varroa mite) and <i>Paenibacillus</i> larvae (American Foulbrood disease) in honey bee lines.	\$36,819.17 (Collective Outcome Project - Investment Agriculture Foundation of BC lead)
MB0261CO University of Manitoba	The Cultural and chemical treatments to synergize honey bee resistance mechanisms against the parasitic mite, Varroa destructor, and the diseases it vectors and minimize winter loss of bees.	The overall objective of this research is to develop effective and economical methods to reduce the impact of <i>Varroa destructor</i> on honey bees under Canadian honey bee management systems.	\$51,000 (Collective Outcome Project - Manitoba Rural Adaptation Council lead)

Recent Alberta ACAAFF Projects Contracted continued

Applicant	Title	Description	ACAAFF Alberta Funding
AB0545 University of Alberta	Exploring the health promoting components in laying hen eggs for the development of value-added egg components	This project aims to investigate the presence of unexplored health-promoting bioactive phytochemicals in eggs and production of health promoting bioactive peptides via bioconversion of egg proteins.	\$122,503
PILLAR II			
SK0365CO Prairie Swine Centre Inc.	The Development of the PorkInsight Database to Effectively Communicate with Pork Producers	Development of a new communications program (database, CD-rom, electronic newsletter and advertising campaign) that would better meet the current informational and time sensitive requirements of the pork industry.	\$16,758 (Collective Outcome Project - Agriculture Council of Saskatchewan lead)
AB0532 Tahkine Energy Solutions Inc.	Third Generation Feedstock Biorefinery - BioProcessing of H ₂ S, CO ₂ and Methane	To commercialize a manufacturing technology that uses acid gases (H ₂ S and/or CO ₂) as a feedstock that reduces energy costs while creating outputs capable of generating value, for instance, biomass for conversion to energy and bio-products.	\$314,339