

# OMAFRA – U of G Partnership Research Program - Approved Projects 2012/'13

DERIVED FROM APPENDIX A: 2012/13 OMAFRA – UOFG PARTNERSHIP RESEARCH PROGRAM, SUMMARY OF FULL PROPOSALS RECOMMENDED FOR FUNDING

## Table of Contents – Approved Projects 2012/'13

Agricultural and Rural Policy.....	2
Bioeconomy – Industrial Uses.....	2
Emergency Management.....	2
Environmental Sustainability .....	2
Food for Health .....	2
Products and Value Chains .....	3
Production Systems – Animals.....	3
Production Systems – Plants.....	3

## Agricultural and Rural Policy

Approved Projects 2012/'13

**No Call for this theme in Fall 2012**

## Bioeconomy – Industrial Uses

Approved Projects 2012/'13

**No Call for this theme in Fall 2012**

## Emergency Management

Approved Projects 2012/'13

1. **Mary Ruth McDonald** - Diseases threatening vegetable crops in Ontario
2. **Paula Menzies** - Prevalence and strain identification of *Coxiella burnetii* on dairy goat farms and in associated wildlife
3. **Zvonimir Poljak** - Efficacy and cost-effectiveness of control strategies for newly emerging forms of swine dysentery
4. **Alfons Weersink** - Optimal Design and Configuration of Detection Strategies for Foreign Pests and Diseases
5. **Cynthia Scott-Dupree** - Assessment of the Distribution and Natural Enemies of the Brown Marmorated Stink Bug in Southern Ontario
6. **Robert Friendship** - The effects of in-feed zinc oxide on methicillin-resistant *Staphylococcus aureus* and *Staphylococcus hyicus* colonization in piglets post-weaning
7. **John Lumsden** - Burkholderia-like bacterium and epitheliocystis in rainbow and lake trout
8. **Kari Dunfield** - Fate and Transport of Emerging Contaminants after Manure Application

## Environmental Sustainability

Approved Projects 2012/'13

**No Call for this theme in Fall 2012**

## Food for Health

Approved Projects 2012/'13

1. **Art Hill** - Omega-3 and Vitamin D3 and enriched dairy creams from butter oil and modified whey protein and their incorporation into Cheddar
2. **David Wright** - Grape pomace as a novel tool to treat insulin resistance and diabetes
3. **Gopi Paliyath** - Biological effects and roles of food matrix- derived nanomaterials in fruit juices and their potential impact on health
4. **John Cant** - Identification of anti-diabetic milk components
5. **Cezar Khursigara** - Look who's talking: mapping the molecular crosstalk between probiotics, gut microbiota, and their hosts

## Products and Value Chains

Approved Projects 2012/'13

**No Call for this theme in Fall 2012**

## Production Systems – Animals

Approved Projects 2012/'13

1. **Julang Li** - Toward commercialization of a novel fermented product for enhancing intestine development and productivity of early-weaned pigs
2. **Todd Duffield** - Strategies for early identification and prevention/treatment approaches to metabolic disease in dairy cows
3. **Bonnie Mallard** - Evaluating Genetic and Epigenetic Regulation of the Bovine Immune System to Improve Dairy Health and Wellbeing
4. **William Allan King** - Meeting the growing demand for Ontario Water Buffalo meat and milk products through the use of reproductive biotechnology
5. **Kees de Lange** - Controlled fermentation and steeping to enhance the feeding value of co-products for pigs
6. **Janet MacInnes** - Better control of Bacterial Cold Water Disease by the development of an effective *Flavobacterium psychrophilum* vaccine
7. **John Prescott** - Understanding and controlling necrotic enteritis in broiler chickens
8. **Eva Nagy** - Immune response of chickens for enhanced protection against viral infections
9. **Ira Mandell** - Evaluation of a Novel Alternative Feed Ingredient in Starter Pig Diets
10. **Tina Widowski** - Influence of rearing and housing of parent stock on offspring's phenotype in layer strains
11. **Keith Betteridge** - Combating infertility in mares

## Production Systems – Plants

Approved Projects 2012/'13

1. **Cheryl Trueman** - Optimizing management of *Cercospora* leaf spot of sugarbeet in the wake of pyraclostrobin fungicide resistance
2. **Mary Ruth McDonald** - Management of nematode pests of root vegetables
3. **Gale Bozzo** - Response of novel Ontario apple and pear cultivars to multiple storage technologies
4. **Bill Deen** - Long term field trials to examine yield, soil productivity and environmental impacts of Ontario corn, soybean and wheat production systems
5. **John Lauzon** - Yield and Quality Response of Alfalfa and Canola to Sulphur Fertilizer
6. **J. Alan Sullivan** - New Potatoes to Support the Ontario Consumer, Processor and Producer
7. **Manish N. Raizada** - Biological Control of *Fusarium* and Associated Mycotoxins in Ontario Cereal Using Endophytic Microbes from Ancient Corn and Millet
8. **John Hooker** - Re-evaluating Phosphorous and Potassium Management for Corn, Soybeans and Wheat in Ontario

9. **François Tardif** - Integration of Cultural Weed Management Methods as a Proactive Strategy to Reduce Herbicide Resistance Risks
10. **Bill Deen** - Yield and quality of winter and spring cereals planted for forage after winter wheat, soybean or corn silage
11. **Stephen Bowley** - Genetic improvement of red clover for underseeding to wheat