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September 1, 2015

The Alberta Innovates Bio Solutions (AI Bio) quarterly e-newsletter is for stakeholders in Alberta's research and innovation system and the agriculture, food and forest sectors. It offers information about the research and innovation activities at AI Bio and in the global bio sectors. The e-newsletter aims to advance knowledge in Alberta's bio community and stimulate new project ideas, connections and collaborations. Click on a business line category in row above to skip down to that section.

General

Alberta Innovates Bio Solutions opens office in Lethbridge

[University of Lethbridge](#) - August 17, 2015

The shingle is out and Dr. Christine Murray is eager to let the University of Lethbridge campus know that Alberta Innovates Bio Solutions is ready to support innovation in southern Alberta's agriculture, forestry and life sciences sectors. Murray, who has set up shop in Markin Hall (M4009), urges U of L faculty and staff to contact her with any questions or ideas that may be related to AI Bio funding and programming. She will be visible on campus and can be contacted at 403-382-7188 or christine.murray@albertainnovates.ca.

Letters of Intent wanted for 2015-16 Agriculture Funding Consortium research call by September 24, 2015

[Alberta Innovates Bio Solutions](#) - July 28, 2015

Opening its call for LOIs on June 1, 2015, the agriculture funding consortium is focused on supporting curiosity-driven basic or applied research projects in any of the priority areas of the 13 consortium members. The consortium is an informal alliance among Alberta's agricultural research funding agencies, including Alberta Innovates Bio Solutions. The consortium is designed to align and coordinate an annual research application process using a one-window online approach. The 2015-16 call for LOIs closes at noon on Thursday, September 24, 2015.

You're Invited to December 11, 2015 Open House at Alberta Innovates

[Alberta Innovates Bio Solutions](#) - August 14, 2015

On Friday, December 11, 2015 from 1 to 3 p.m., join our colleagues in Alberta Innovates, government, industry and academia at the joint Alberta Innovates Bio Solutions and Alberta Innovates Energy and Environment Solutions Open House. Celebrate the holiday season at our informal, drop-in mixer to meet our leadership and staff and make connections with others in Alberta's research and innovation system.

Alberta Innovates Bio Solutions' 2014-15 Annual Report outlines key achievements in the last year



[Alberta Innovates Bio Solutions](#) - July 28, 2015

With a focus on the agriculture, food and forest sectors, AI Bio's research and innovation activities are helping to grow Alberta's bioindustries. During the last fiscal year, AI Bio was managing 174 active multi-year grant agreements

representing investments of \$67.0 million over the lifetime of the projects and cash leveraging of \$158.1 million from other partners. As a result of the 39 projects closed in 2014-15, 70 new or improved products, processes or services may be entering the market in coming years.

Impact Innovation 2015 attracted a full house

Alberta Innovates Bio Solutions - July 28, 2015

More than 200 representatives from academia, industry and government attended AI Bio's fifth annual Impact Innovation public lecture at Edmonton's Citadel Theatre. Another 200 watched the livestream. The three-hour program on May 13, 2015, featured six researchers whose important work is supported by AI Bio. The speakers presented on a wide range of interesting topics, including remediation of contaminated sites, effect of climate change on Alberta's forest fire season and Alzheimer's research. Presentations are now available online.

SAVE THE DATE May 11, 2016 is Impact Innovation 2016

Alberta Innovates Bio Solutions - July 28, 2015

Come to Alberta Innovates Bio Solutions' Impact Innovation 2016 public lecture in Edmonton on Wednesday, May 11, 2016. It is free and open to the public. Attendees at past lectures have said the speakers gave presentations that were of high quality, short, in plain language and interesting. Attendees also liked the networking and cross-research thinking.

Sustainable Agriculture and Forestry Production

Alberta Innovates Bio Solutions supports six projects from 2014-15 Agriculture Funding Consortium call

Alberta Innovates Bio Solutions - July 28, 2015

The 2014-15 Agriculture Funding Consortium call for research proposals, which closed in September 2014, was completed with an AI Bio investment of \$792,000 in six innovative projects with a total project value of \$4.5 million. Four of these projects aim to accelerate crop improvements in wheat, barley, and potatoes. Two of the projects aim to develop new products and technologies in food innovation.

DuPont Pioneer opens new corn facility

Prairie Post - July 15, 2015

...Alberta Government, the Alberta Crop Industry Fund as well as **Alberta Innovates** Bio solutions. Getting the funding helped DuPont Pioneer get...

A prepartum diet supplemented with oilseeds high in oleic or linoleic acid reduced GnRH-induced LH release in dairy cows during second week postpartum

Reproductive Biology and Endocrinology - July 02, 2015

Abstract Background The objective was to determine the effect of prepartum diets supplemented with rolled canola seed (high in oleic acid) or sunflower seed (high in linoleic acid) on luteinizing hormone (LH) pulsatility and gonadotropin releasing hormone (GnRH)-induced LH release during

Acknowledgements Research supported by Alberta Livestock and Meat Agency, **Alberta Innovates** BioSolutions, Alberta Milk, and Livestock Research Branch,

Bioindustrial Innovation

Bio-on and Cristal Union to open 'World first' advanced biopolymer plant as TerraVerdae BioWorks scales up commercial production of its PHA Bioplastics

FoodProductionDaily.com - August 02, 2015

Bio-on and Cristal Union have partnered to create France's first facility for the production of PHAs bioplastic from sugar beet co-products, in the same week TerraVerdae BioWorks announced it will scale-up production of its biodegradable PHA bioplastics from

In North America, TerraVerdae BioWorks, based in Canada and **Alberta Innovates Bio Solutions** have scaled-up optimization of the bioprocess for...

Letters of Intent invited by September 2, 2015 to Alberta Bio Future Product and Technology Commercialization funding program

Alberta Innovates Bio Solutions - July 28, 2015

Companies wanting financial support in development of a new pre-commercial or commercial bioindustrial product or technology are invited to apply by September 2, 2015 to Alberta Innovates Bio Solutions' funding program the "Alberta Bio Future Product and Technology Commercialization program." This program is one of three funding streams under the main Alberta Bio Future program. The other streams are grants for equipment utilization (no deadline - continuous intake of applications) and for research and Innovation (launching in fall 2015).

REGISTER NOW - Nov 23-25, 2015 Bioindustrial Innovations-Unlocking Value and Tackling Climate Change

Alberta Innovates Bio Solutions - July 28, 2015

Hosted by Alberta Innovates Bio Solutions and the Biorefining Conversions Network, this conference at Edmonton's Shaw Conference Centre will draw together more than 300 representatives from industry, investment, academia, and government. The conference aims to stimulate new discussions, projects and collaborations, and advance knowledge in Alberta's bioindustrial community. Presentations will focus on the conference themes of biomass value-add, greenhouse gas reduction, environmental sustainability, social licence to operate, the oil and gas interface with agriculture and forestry, and building government-industry-academia research partnerships.

Refinery to turn fat and vegetable oil into renewable fuels

The Province - July 06, 2015

...pilot plant received financial support and assistance from partners including **Alberta Innovates Bio Solutions**, the City of Edmonton, the Edmonton...

Food Innovation

Ingredients for Success, The Conference on Food Innovation 2015, revealed new trends to food processing community

Alberta Innovates Bio Solutions - July 28, 2015

Hosted by Alberta Innovates Bio Solutions, more than 160 representatives from food processing businesses, commodity associations, research and government attended the conference held May 26 and 27, 2015 at the Deerfoot Inn & Casino, in Calgary. Over the day and a half conference, attendees learned that telling your food safety story can be your competitive advantage, a deprivation branding strategy worked very well in promoting milk consumption, Alberta's food value-added industry has potential to double but agriculture and food businesses are not seen as exciting, and innovation is the key to staying ahead of changing industry demands. Held in conjunction with the conference were the Alberta Food Awards hosted by the Alberta Food Processors Association. Photos, videos and the

speakers' powerpoint presentations are available online.

Mountain Meadows Food Processing Ltd. wins Alberta Innovates Bio Solutions award at Alberta Food Awards

Alberta Innovates Bio Solutions - July 28, 2015

Winner of the AI Bio-sponsored award of "Most Innovative food ingredient, food product or beverage with Alberta grown/raised ingredients" was Mountain Meadows Food Processing Ltd. from Sturgeon County, Alberta (www.peabutter.ca). Owners, Caryll and Norman Carruthers, have developed "No Nuts Chocolate Peabutter portion paks." Products were judged on: a) quality of the product, innovative use of Alberta Ingredients, unique selling features, innovative packaging, the potential for a solution to a challenge or market opportunity, and potential business, social and economic impact. The Alberta Food Awards are held annually by the Alberta Food Processors Association. The 2015 awards on May 26, 2015 in Calgary were held in conjunction with Alberta Innovates Bio Solution's Ingredients for Success: the Conference on Food Innovation 2015.

Research LOIs wanted for Phase II of the AI Bio Accelerating Food Innovation Applied Research and Product Development program by September 3, 2015

Alberta Innovates Bio Solutions - July 28, 2015

Alberta Innovates Bio Solutions' new food innovation program focuses on research and development leading to new ingredients or food and beverage products. These products must be derived or add value to Alberta's most relevant livestock and/or crop commodities, and respond to domestic and/or international consumer demand. Researchers may apply for up to \$150,000 for eligible projects. Deadline for submission of letter of intent is September 3, 2015.

Ecosystem Services and Biodiversity

REGISTER NOW Ecosystem Services and Biodiversity Science Symposium - September 16, 2015 in Edmonton

Alberta Biodiversity Monitoring Institute - July 28, 2015

The symposium is hosted by Alberta Biodiversity Monitoring Institute and sponsored by Alberta Innovates Bio Solutions. This event is for government, industry and academia to share emerging knowledge, and specific application to challenges and opportunities in Alberta including trade-off analysis for land use planning, design and implementation of conservation offsets and other market-based approaches, and assessments of sustainability for natural resource sectors.

ABMI White Paper: 'Opportunities to Move Forward with Conservation Offsets in Alberta'

Alberta Biodiversity Monitoring Institute - July 28, 2015

This spring, the Alberta Biodiversity Monitoring Institute (ABMI) commissioned a discussion paper, with support from Alberta Innovates Bio Solutions, to identify and address barriers and opportunities to move forward with the use of conservation offsets in the province. Authored by Morris Seiferling, "Opportunities to Move Forward with Conservation Offsets in Alberta," offers a summary and recommendations for a successful conservation offset program in Alberta based on an extensive review of international, national and provincial conservation initiatives, support mechanisms, stakeholder input and the author's considerable experience and knowledge as the former Stewardship Commissioner for the Alberta Land-Use Secretariat.

Project Update on Development of Information and Science to Support the Provision of Ecosystem Services on Agricultural Lands

Alberta Innovates Technology Futures - July 28, 2015

The South Saskatchewan Regional Plan identifies opportunities for producers to supply ecosystem services (ES) on agricultural lands. A strong science base is needed to enable innovative ES programs and market based approaches. The objective of this project, supported by Alberta Innovates Bio Solutions and other partners, is to develop and test integrated science and decision support tools to support the design and evaluation of ES programs for biodiversity, water quality and quantity; and carbon; and wetlands for one watershed in the South Saskatchewan River Basin. Since the project launched in April 2015, activities have included development of partner agreements, hiring of Highly Qualified Personnel (HQP) to work on the project, initiation of a literature review on livestock BMP adoption costs (supervised by Dr. Scott Jeffrey, Department of Resource Economics and Environmental Sociology, University of Alberta). Read the newsletter for further details.

Biological Greenhouse Gas Management

Biological GHG Management program invites project concepts

Alberta Innovates Bio Solutions - August 25, 2015

The Biological Greenhouse Gas Management Program is a program of the Climate Change Emissions Management Corporation (CCEMC) collaboratively delivered by Alberta Innovates Bio Solutions. It offers targeted funding for projects that can significantly reduce GHG emissions from agriculture, forestry or municipal waste systems. Projects require matching support from industry or municipalities, and should deliver quantifiable reductions within the project period. If you would like to discuss a project concept, please contact Executive Director Susan Wood-Bohm at susan.wood-bohm@albertainnovates.ca.

Obama Administration Takes Historic Action on Climate Change/Clean Power Plan to protect public health, spur clean energy investments and strengthen U.S. leadership

EIN Presswire - August 03, 2015

Contact Information: Enesta Jones (National and Trade Press Only) jones.enesta@epa.gov (202) 564-7873 Julia
Obama Administration Takes Historic Action on Climate Change/**Clean Power Plan** to protect public health, spur clean energy investments and strengthen...
 asdlkjff

Alberta Prion Research Institute

Research applications invited by November 30, 2015 to APRI Explorations Program

Alberta Innovates Bio Solutions - August 28, 2015

Applications for the fourth round of the Explorations Program are now being accepted. The Explorations Program allows Alberta-based investigators to seek funding for research directly related to prion diseases and prion-like human neurodegenerative diseases and dementias. The Alberta Prion Research Institute offers two tiers of funding for the Explorations competition: grants of up to \$200,000 for a maximum of two years, and grants of up to \$500,000 for a maximum of three years.

Research applications invited by October 26, 2015 to new Alberta Alzheimer Research Program

Alberta Innovates Bio Solutions - August 20, 2015

The Alberta Prion Research Institute (Prion Institute) and the Alzheimer Society of Alberta and Northwest Territories (ASANT) present the Alberta Alzheimer Research Program IV (AARP). The AARP IV allows qualified Alberta investigators to seek funding for research directly related to Alzheimer's disease in areas related to understanding the fundamental mechanisms of the disease and improving the quality of life of those with Alzheimer's disease. The

deadline for submission of applications is Monday, October 26, 2015.

Government of Alberta Committed to Prion Research

Alberta Innovates Bio Solutions - August 20, 2015

The Government of Alberta continues to show its commitment to prion and protein misfolding research by providing \$27.5 million to the Alberta Prion Research Institute through March 2020. Since inception in 2005, the Alberta Prion Research Institute, a business line in Alberta Innovates Bio Solutions, has funded more than 100 projects led by 50 top researchers, 11 of them recruited from outside of Alberta. Alberta is now the epicentre for prion research in Canada and one of the top research locations globally.

You are receiving this email from Marie Cusack, Communications Director at Alberta Innovates Bio Solutions, 1800, 10020-101A Avenue, Edmonton, Alberta, T5J 3G2, 780-638-4060, www.bio.albertainnovates.ca.

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