

Congratulations!

Dr. Todd Duffield receives bovine welfare award

In recognition of his commitment to animal welfare through research, teaching, mentorship and extension, Dr. Todd Duffield has been awarded the 2018 Metacam 20 Bovine Welfare Award. Duffield is chair of the Department of Population Medicine at the University of Guelph's Ontario Veterinary College. The annual award is presented by the Canadian Association of Bovine Veterinarians and Boehringer Ingelheim.

[Full Article](#)

Father-daughter donate working ranch to University of Calgary

In the largest gift of a ranch ever made to a North American university, J.C. (Jack) Anderson and his daughter Wynne Chisholm have donated an entire working ranch - including 1,000 head of cattle, land and buildings - to the University of Calgary's Faculty of Veterinary Medicine. The gift opens the opportunity for real-life training for veterinary students and a world-class centre for beef cattle research and teaching.

[Full Article](#)

Making News

Good Food Institute opens grant program

The U.S.-based institute has launched a \$3 million competitive research grant program to advance knowledge on plant-based and clean meat. While the money will be awarded to projects around the globe, the Good Food Institute has identified the top 12 universities with the greatest potential to impact research on plant-based meat and clean meat.

[Full Article](#)

New Plant-Based Foods of Canada
Members of Canada's plant-based food



Research and Innovation Driving Livestock Sector Success

Research Snapshots

Smart Farming: Pasture reader monitors grass growth

A Dutch dairy farmer has a novel approach for determining when to fertilize the pasture where his cows are grazing. He's adapted Australian-based pasture reading technology that is mounted on his field mower to measure grass height and yield. The data creates a field map to indicate where fertilizer is required - preventing over fertilizing and saving money.

[Full Article](#)

Smart Farming: Understanding ag data ownership

Farmers in Canada need to know who owns the data that's collected by software systems they're using to increase farm productivity and profitability - and how it might be used - before signing on to data agreements. Canadian law, like in the U.S., does not consider data to be physical or intellectual property to which inherent data ownership is not guaranteed.

[Full Article](#)

Poultry: Integrating chickens into vegetable production

Iowa State University researchers are investigating what happens when broiler chickens are integrated into vegetable production to forage on leftover plant material and provide manure fertilizer for the soil. They are looking at whether this integrated approach can reduce off-farm inputs and provide producers with sustainable crop rotation options.

[Full Article](#)

industry have joined together to form Plant-Based Foods in Canada to support regulatory and market interests for food companies that make and market vegetarian products that are similar to animal protein products. The new organization will work with government and leading stakeholders on emerging issues that are shaping this sector.

[Full Article](#)

Ontario Regional Priorities Partnership Program (ON-RP3)

Ontario Genomics (OG) has partnered with Agricultural Adaptation Council (AAC) and Genome Canada (GC) to deliver the new Ontario Regional Priorities Partnership Program (ON-RP3). Funding through this program will support co-led industry-academic, proof-of-concept stage projects within Ontario's agriculture and agri-food sector. These projects will deliver genomics-driven technologies, tools, and processes for industry-identified challenges and opportunities.

[Click here for the project details](#)

An informational webinar will be held on October 12th, 2018 at 10:30 AM

[Webinar Details](#)

LRIC Update

Calls for Letters of Intent for Pork Research Currently Open Until October 25th.

Details on open calls for research proposals are available online. Log into LRIC's research management system by [clicking here](#)

Any questions can be directed to info@livestockresearch.ca

Coming events

Oct 10 - 11, 2018: Alberta Livestock Expo, Lethbridge AB,

[Details Here](#)

Poultry: Examining the role of genes in feather pecking

Feather pecking behaviour is the main reason for reduced survival in laying hens, and previous mortality studies due to feather pecking have indicated that genes play a substantial role in cannibalism. Dutch researchers and Hendrix Genetics have investigated the genomic regions association with survival time in laying hens.

[Full Article](#)

Swine: Improving sow contentment

Australian researchers have found that providing enrichment to sows before and after farrowing in traditional crates can reduce stillbirth rate, improve colostrum intake and improve sows' affective state. Enrichment treatments tested included providing straw or Lucerne hay to sows as well as offering hanging cotton rope. The studies were some of the first to explore contentment/affective state of sows in traditional farrowing crates.

[Full Article](#)

Swine: A phone app to detect fever

A Spanish researcher has developed a simple phone application that will help swine producers quickly detect animals with a fever - information that can lead to earlier, more precise treatment. The new app is not a diagnostic tool but uses an add-on thermographic camera to measure body temperature and indicate animals that need additional care.

[Full Article](#)

Swine: Testing the feeding behaviour of small piglets

Researchers at Wageningen University in the Netherlands looked into the factors that influence feed intake and feeding behaviour of suckling piglets. They presented piglets with feed that had various sensory properties to determine what factors stimulated pre-weaning feed intake - that in turn helps facilitate the weaning transition.

[Full Article](#)

Beef: Multidrug resistant E. coli isolated in U.S. retail meat

U.S researchers have found extended spectrum beta lactamase (ESBL) producing E. coli in cattle for food production and retail meat products that was resistant to at least three antimicrobial classes. The study provides alarming evidence of meat products contaminated by multidrug resistance E. coli and

Oct 15 - 16, 2018: Advancing Women in Agriculture Conference, Niagara Falls, ON
[Details Here](#)

Oct 17, 2018: Ag Lenders Conference, Stratford Festival Inn, ON,
[Details Here](#)

Oct 22 - 24, 2018: Pork 101, Iowa State University,
[Details Here](#)

Oct 23 - 27, 2018: IUFoST 19th World Congress of Food Science and Technology, Mumbai, India,
[Details Here](#)

Oct 25, 2018: Grazing your cover crops field day, Omeme, ON
[Details Here](#)

Oct 27, 2018: Grazing your cover crops field day, Neustadt, ON
[Details Here](#)

Oct 30, 2018: Managing the gut for health and productivity, LRIC and Arrell Food Institute, Guelph ON,
[Details Here](#)

Nov 1 - 2, 2018: Ontario Sheep Convention, Alliston ON,
[Details Here](#)

Nov 2 - 11, 2018: Royal Agricultural Winter Fair, Toronto ON,
[Details Here](#)

Nov 5, 2018: 45th Ontario Junior Swine Show (RAWF), Toronto ON,
[Details Here](#)

Nov 8 - 11, 2018: Dairy Sheep Association of North America symposium, Kansas City MO
[Details Here](#)

Nov 13, 2018: Atlantic Poultry Conference, Wolfville NS,
[Details Here](#)

Nov 13 - 15, 2018: Poultry Welfare Auditor Course (PAACO), Guelph, ON,
[Details Here](#)

Nov 13 - 16, 2018: Euro Tier 2018, Hannover, Germany,
[Details Here](#)

Nov 21, 2018: PIC Eastern Regional Poultry Conference, St Isidore ON,
[Details Here](#)

Nov 27, 2018: Healthy Calf Conference, Stratford ON,
[Details Here](#)

Nov 29, 2018: Healthy Calf Conference, Maxville ON,
[Details Here](#)

reinforces the seriousness of antimicrobial drug resistance
[Full Article](#)

Dairy: Managing lameness in automated milking systems

A Canadian study monitored 41 commercial dairy farms to observe the relationship between lameness and health disorders in cows milked in automated milking systems (AMS). Minimizing lameness when using AMS is crucial because cows must be fit enough to reach the AMS by themselves. By collecting data on cow behaviours, locomotion and body condition score, the study found lameness had a detrimental impact on the majority of variables analyzed, particularly those related to milk production and AMS visits.

[Full Article](#)

Dairy: Tracking dairy and alternative habits with consumers

A new U.S. consumer study by Cargill found that 50% of shoppers consume both real dairy and dairy alternatives. The study also revealed that dairy consumption is common in 90% of U.S. households, 67% consider real dairy part of a regular diet, while 48% believe a balanced diet doesn't require real dairy.

[Full Article](#)

Equine: Evaluating organic, non-GMO hay

The decision to feed organic, non-genetically modified or conventional hay to horses is a personal decision, according to a Montana State University professor and forage specialist. Research at the University of California, Davis analyzed more than a billion animals eating more than a trillion GMO meals and found no negative effects on animal health. Using either type of hay does not pose a problem for horses or the community as long as they are grown responsibly.

[Full Article](#)

Aquaculture: Insect meal for Atlantic Salmon

A team of Norwegian and Italian researchers looked at the effect of feeding insect meal and insect oil on the growth performance, body composition and nutrient digestibility of freshwater reared Atlantic salmon. Black soldier fly larvae protein meal did not impact the voluntary feed intake or palatability of an insect-based diet for the Atlantic salmon.

[Full Article](#)

Dec 4, 2018: Group sow housing and management seminar, Stratford ON,
[Details Here](#)

Dec 5, 2018: Poultry Industry Council Producer Updates, Belleville ON,
[Details Here](#)

Dec 12, 2018: Poultry Industry Council Producer Updates, Brodhagen ON,
[Details Here](#)

Jan 8 - 10, 2019: Banff Pork Seminar, Banff AB,
[Details Here](#)

Feb 6, 2019: Poultry Industry Council Producer Updates, Jordan ON,
[Details Here](#)

Feb 12 - 14, 2019: International Production and Processing Expo, Atlanta GA,
[Details Here](#)

Feb 19 - 22, 2019: 17th International Exhibition of Equipment & Technologies for Livestock Farming, Dairy and Meat Production, Moscow, Russia,
[Details Here](#)

Feb 20, 2019: Poultry Industry Council Producer Updates, Mount Brydges ON,
[Details Here](#)

Feb 20 - 22, 2019: Alberta Beef Industry Conference, Red Deer AB,
[Details Here](#)

Feb 26, 2019: Poultry Industry Council Producer Updates, Mount Forest ON,
[Details Here](#)

Apr 3 - 4, 2019: Canadian Dairy XPO, Stratford ON,
[Details Here](#)

Apr 4 - 5, 2019: National Poultry Show, London ON,
[Details Here](#)

Jun 19 - 20, 2019: Ontario Pork Congress, Stratford ON,
[Details Here](#)

Oct 5 - 9, 2019: Anuga, Cologne, Germany,
[Details Here](#)

Oct 8 -11, 2019: Process Expo, Chicago IL,
[Details Here](#)

Whatever next?!? A look at the weird and wacky

Feathers find a future in plastics

Chicken feathers are finding new life as a form of plastic that's stronger and more tear-resistant than plastics made from modified starch or plant protein. Chicken feather waste is 90% keratin - a tough fibrous protein - and a Spanish company is capitalizing on this content to transform feathers into a valuable resource.

[Full Article](#)

That insect bite might put you off meat

Chigger bites are the latest insect that allergists at Wake Forest Baptist Medical Center suspect may be responsible for a relatively rare allergic reaction to red meat known as alpha-gal. The medical community has known for several years that tick bites can cause this allergy that's a reaction to a carbohydrate molecule in mammalian meat called alpha-gal. The only cure is to avoid all mammalian meat.

[Full Article](#)

**Quick Links to Our Partners,
Friends & Members**

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[Ontario Pork](#)

[Poultry Industry Council](#)

[Agricultural Adaptation Council](#)

[Agricultural Research Institute of Ontario](#)

[Agriculture and Agri-Food Canada](#)

[OMAFRA](#)

[University of Guelph](#)

[Turkey Farmers of Ontario](#)

[Ontario Sheep Farmers](#)

[OBHECC](#)

[Chicken Farmers of Ontario](#)

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[Veal Farmers of Ontario](#)

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