

Scientific program as at 16 August 2018

Tuesday 21 August 2018

Satellite Symposia – Boulevard Level, Brisbane Convention and Exhibition Centre, South Bank, Brisbane

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08:30-12:00	Satellite Symposium – Boulevard Auditorium: COST Action FA1401 – PiGutNet: Factors affecting the	
	gastro-intestinal microbial balance and the impact on the health status of pigs	
08:30-12:00	Satellite Symposium – Room B1&B2: Evonik: Trends in Feeding Concepts for Optimal Swine	
	Production	
13:00-16:30	Satellite Symposium – Boulevard Auditorium: DSM Nutritional Products: Gastro-Intestinal	
	Functionality and Health	
13:00–16:30	Satellite Symposium – Room B1&B2: Riddet Institute: The Pig as a Nutritional Model for the Human	
16:30-18:30	Welcome reception, Boulevard Auditorium Foyer, Brisbane Convention and Exhibition Centre	
18:30–19:30	ISC meeting, Room B1 (invitation only)	

Wednesday 22 August 2018

	Boulevard Auditorium, Brisbane Convention and Exhibition Centre, South Bank, Brisbane
08:00-08:15	Opening remarks
08:15-08:55	Keynote presentation:
	Nutrient-specific appetites and the ecology of diet balance – 100
	Prof Stephen Simpson, The University of Sydney
08:55–09:30	Asia-Pacific Nutrition Award presentation and Keynote presentation:
	Nutritional regulation of porcine intestinal development and weaning stress – 101
	Prof Yulong Yin, Institute of Subtropical Agriculture, Chinese Academy Of Sciences
	Session 1 – GIT nutrient sensing and the enteroendocrine system
09:30–10:30	Main presentation:
	Chemosensing of nutrients and non-nutrients in the human and porcine guts – 102
	Prof Inge Depoortere, KU Leuven and Assoc Prof Eugeni Roura, University of Queensland, Australia
10:30-11:00	Morning break and exhibition viewing
11:00-12:30	S1 – Short oral presentations
11:00-11:15	L-arginine modulates gut hormone release through the calcium sensing receptor in vitro and in vivo –
	103
	Suqin Hang, Nanjing Agricultural University, China
11:15–11:30	Duodenum and ileum respond to amino acids with increased CCK and GLP-1 release using an ex-vivo
	model in weaned pigs – 104
	Maximiliano Müller, The University of Queensland, Australia
11:30–11:45	Minor dietary supplementation with a protein hydrolysate improves ileal mucosal integrity and
	nutrient transport, potentially mediated by increased GLP-1/GLP-2 secretion – 105
11.45 12.00	Gemma Tedo, Lucta SAUAB Research Park, Spain Maternal conditioning with monosodium glutamate increases innate umami and sweet taste
11:45–12:00	sensitivity in piglets – 106
	Sergio A. Guzmán-Pino, Universidad de Chile, Chile
12:00-12:15	Upregulation of the GPR84 medium-chain fatty acid sensor in porcine ileum in pigs fed a high soluble
	fibre (inulin) diet – 107
	Nadia De Jager, The University of Queensland, Australia
12:15-12:30	Acceptability and palatability of garlic flavoured feed after social learning in nursery pigs – 108
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12:30-14:30	Lunch and poster session 1
	Session 2 – Gut health and intestinal immunity (challenges to gut health)
14:30-15:30	Main presentation:
	Linking intestinal immunity to applied approaches in pig nutrition – 109
	Dr Brooke Humphrey, Cargill, United States of America
15:30-16:00	Afternoon break and exhibition viewing
16:00-17:30	S2 – Short oral presentations
16:00–16:15	Impact of Porcine Reproductive and Respiratory Syndrome virus and reduced feed intake on jejunum function and integrity in pigs – 110
	Shelby Curry, Iowa State University, United States of America
16:15-16:30	Post-weaning diarrhoea in piglets in practice is associated with protein fermentation, but specific
	protein fermentation metabolites contribute differently – 111
	M. S. Gilbert, Wageningen University and Research, Netherlands
16:30-16:45	FeedOmics, an approach towards understanding gut-health influenced by dietary protein source in
	pigs – 112
	Soumya Kar, Wageningen University and Research, Netherlands
16:45-17:00	Early-life Lactoferrin intervention alleviates the diarrhea by modulating intestinal permeability and
	changing the microbiota in suckling piglets – 113
	Ping Hu, Wang Jing, National Center for International Research on Animal Gut Nutrition, Jiangsu Key
	Laboratory of Gastrointestinal Nutrition, China
17:00-17:15	Late gestation diet supplementation of resin acid-enriched composition increases sow colostrum IgG,
	piglet colostrum intake and modulates sow gut microbiota – 114
	Shah Hasan, University of Helsinki, Finland
17:15-17:30	Laminarin improves performance and intestinal health in post weaned pigs – 115
	Ruth Rattigan, University College Dublin, Ireland
19:00-22:00	DPP2018 Barbecue dinner
	Southbeach Social, South Bank

Thursday 23 August 2108

	Boulevard Auditorium, Brisbane Convention and Exhibition Centre, South Bank, Brisbane
09:00	Opening remarks
	Session 3 – Rate and extent of ingredient digestion in the small intestine
09:00-09:45	Main presentation: Rate and extent of macronutrient digestion in the small intestine: multiple mechanisms and consequences – 116 Prof Mike Gidley, The University of Queensland, Australia
09:45-10:15	Morning break and exhibition viewing

10:15-11:45	S3 – Short oral presentations
10:15-10:30	In vitro and in vivo starch digestion kinetics of diets varying in dietary fibre content and composition
	-117
	Knud E. Bach Knudsen, Aarhus University, Denmark
10:30-10:45	Adaptation of feed intake behaviour of pigs to diets differing in resistant starch – 118
	Rik van Erp, Wageningen University, Netherlands
10:45-11:00	Branched isomalto-oligossacharides increase nutrient digestibility enhancing microbial activity in
	ileal-cannulated pigs – 119
	Charlotte Maria Elisabeth Heyer, University of Alberta, Canada
11:00-11:15	Crystalline amino acids in diets do not influence calculated values for amino acid digestibility in feed
	ingredients fed to pigs - 120
	Maryane Oliveira S. F., University of Illinois at Urbana-Champaign, United States of America
11:15-11:30	Apparent amylase diffusion coefficient of milled grains determined in vitro is related to digestibility
	and the growth of pigs - 121
	Vishal Ratanpaul, The University of Queensland, Australia
11:30-11:45	The influence of physical properties of feed and digesta on gastric emptying in pigs – 122
	Bianca Martens, Wageningen University and Research Centre, Netherlands
11:45-12:15	International travel grant presentations
12:15-14:00	Lunch and poster session 2
	Session 4 - Metabolic health and brain activity modulated by the gut
14:00-	Main presentation:
15:00	Impact of food, gut-brain signals, and metabolic status on brain activity in the pig model: 10 years of
	nutrition research using in vivo brain imaging - 123
	Dr David Val-Laillet, Institut National de la Recherche Agronomique, France,
15:00–15:30	Afternoon break and exhibition viewing
15:30–17:00	S4 - Short oral presentations
15:30-15:45	Insulin resistant pig as a model for type 2 diabetes (T2D) in humans - 124
	Romuald Zabielski, Warsaw University of Life Sciences, Poland
15:45-16:00	Plasma metabolites related to nitrogen efficiency in low and high birth weight pigs - 125
	Lisanne Verschuren, Wageningen University and Research, Netherlands
16:00-16:15	FTO protein expression in gastrointestinal tract as a marker of nutritional status - 126
	Maria Sady, Warsaw University of Life Sciences, Poland
16:15-16:30	Relation between farm health status, immune stimulation, amino acid metabolism, and N-efficiency
	in growing pigs - 127
	Sonja de Vries, Animal Nutrition Group, Wageningen University and Research, Netherlands
16:30-16:45	Antibiotics-induced modulations of large intestinal microbiota altered bile acid profile and host lipid
	metabolism of piglets - 128
	Yu Pi, Nanjing Agriculture University, China
16:45-17:00	Carryover effect of prior fiber type consumed on metabolic markers and fecal microbiome in
	Ossabaw pigs - 129
	Kolapo Ajuwon, Purdue University, United States of America
19:00-23:00	Symposium gala dinner, UQ Customs House

Friday 24 August 2018

	Boulevard Auditorium, Brisbane Convention and Exhibition Centre, South Bank, Brisbane
9:00	Opening remarks
	Session 5 - Microbiome development and barrier function
9:00-10:00	Main presentation: Microbial endocrinology: Why the integration of microbiology, neurobiology and nutrition matters to overall health and behavior in pigs - 130 Prof Mark Lyte, Iowa State University, United States of America
10:00-10:30	Morning break and exhibition viewing
10:30-12:00	S5 - Short oral presentations
10:30–10:45	The effect of environmental challenge on gut microbiota composition in growing pigs - 131 Xiaonan Guan, Schothorst Feed Research / HMI Wageningen UR, Netherlands
10:45-11:00	Associations between birthweight, performance and faecal microbiota of piglets pre and post- weaning - 132 Clare Gaukroger, Newcastle University, United Kingdom
11:00-11:15	Early-life feeding accelerates gut microbiota colonisation patterns in piglets - 133 Raka Choudhury, Wageningen University and Research, Netherlands
11:15–11:30	Impacts of dietary fiber and carbohydrases on intestinal microbiota in ETEC challenged pigs - 134 Qingyun Li, Iowa State University, United States
11:30–11:45	Effect of dietary carbohydrase supplementation and soaking of cereals on intestinal microbiota in grow-finishing pigs - 135 Alberto Torres-Pitarch, Teagasc, Ireland
11:45–12:00	Dietary zinc oxide or Zn-Lysinate differentially modulate the colon microbiome, microbial activity and antibiotic resistance genes in weaned piglets – 136 Jürgen Zentek, Freie Universität Berlin, Germany
12:00-12:15	Announcement of best student papers and posters DPP2018 closing remarks
12:15-14:00	Lunch and farewell