

# 11th International Oat Conference - PROGRAM

## Day 1 - Tuesday, 11th October 2022

Time	Activity
0745	<b>Registration and coffee</b>
0830	<b>Plenary 1: Health trends in oats / Oat quality, products and innovation</b>
0830	<b>Welcome &amp; Conference opening</b> Dr. Pamela Zwer, OAT2022 Program Convenor, Australia  The Hon. Alannah MacTiernan MLC, Minister for Regional Development; Agriculture and Food; Hydrogen Industry, Western Australia ( <i>tbc</i> )
0900	<b>Getting oats on the menu for people with Coeliac disease</b> Assoc. Prof. Jason Tye-Din, Walter and Eliza Hall Institute, Royal Melbourne Hospital, Australia
0930	<b>Processing effects on functional nutrients and digestion characteristics of Chinese oat products</b> Prof. Xin-zhong Hu, Shaanxi Normal University, China
1000	<b>Synergistic effect of oat polar lipids and oat beta-glucans on postprandial blood glucose</b> Assoc. Prof. Lieselotte Cloetens, Lund University, Sweden
1030	<b>Morning tea</b>
1100	<b>Plenary 2: Health trends in oats / Oat quality, products and innovation</b>
1100	<b>Inhibition of the intestinal glucose transporter GLUT2 and SGLT 1 by oat derived avenanthramides</b> Dr. Sijo Joseph (Thandapilly), Agriculture and Agri-Food Canada
1120	<b>The genetic basis for the healthfulness of oats revealed through multi-omic analysis</b> Angéla Juhász, Edith Cowan University, Australia
1140	<b>Novel indicators of oat quality</b> Ulla Holopainen-Mantila, VTT Technical Research Centre of Finland
1200	<b>Towards low lipase oat</b> Sofia Marmon, Lund University, Sweden
1220	<b>Innovative oat foods: using Australian oats for noodles, rice and other products</b> Dr. Sabori Mitra, Australian Export Grains Innovation Centre (AEGIC), Australia
1240	<b>Lunch</b>

Day 1 - Tuesday, 11th October 2022 (continued)

Time	Activity	
1330	<b>Plenary 3: Crop physiology and stress tolerance - pushing the boundaries of oats for yield and quality</b>	
1330	<b>Paving the way for a sustainable oat production under Mediterranean environments</b> Dr. Elena Prats, Spanish Council for Scientific Research, Spain	
1400	<b>Improved oat yield under heat stress: a promising role for canopy cooling traits as breeding targets</b> Assoc. Prof. Walid Sadok, University of Minnesota, USA	
1420	<b>Stresses in the late stem elongation period generate the greatest grain yield reduction in oats</b> Juan Ignacio Dietz, La Plata National University, Argentina	
1440	<b>X-ray computed tomography imaging for rapid and automated phenotyping of oat panicle and spikelet architecture and grain traits</b> Dr. Haoyu (Mia) Lou, University of Adelaide, Australia	
1500	<b>Afternoon Tea</b>	
1530	<b>Concurrent A1: Oat Health Trends and Oat Products</b>	<b>Concurrent A2: Applied Crop and Grain Physiology</b>
1530	<b>Comparison of Canadian naked oat cultivars: Nutritional, phenolic compounds and antioxidant activity</b> Isabelle Germain, Agriculture and Agri-Food Canada	<b>A fast and automatic phenotyping and variety identification method for improving oat yield</b> Penghao Wang, Murdoch University, Australia
1550	5 minutes moving	
1555	<b>Characterization of a novel GH5_34 arabinoxylanase for the production of prebiotics from oat fibres</b> Siri Norlander, Lund University, Sweden	<b>Grain staining in oats: heritability and associations with phenotypic traits important to the industry</b> Mónica Mathias, Agricultural Research Institute (INIA), Chile
1615	5 minutes moving	
1620	<b>Variation of some physical and chemical quality traits of Moroccan domesticated tetraploid oat lines of A. murphyi Ladiz.</b> Dr. Nehza Saidi, National Institute for Agricultural Research, Morocco	<b>High-throughput method for screening fibre content in oat and other cereal crops</b> Hao Luo, Murdoch University, Australia
1640	5 minutes moving	
1645	<b>Antioxidative potential of natural oat extracts</b> Cecilia Tulberg, Lund University, Sweden	<b>Comparison of grain from two oat cultivars with variable levels of the soluble dietary fibre (1,3;1,4)-<math>\beta</math>-D-glucan</b> Assoc. Prof. Monika Doblin, La Trobe University, Australia
1705	<b>CLOSE</b>	

## Day 2 - Wednesday, 12th October 2022

Time	Activity
0800	<b>Registration and coffee</b>
0850	Welcome
0900	<b>Plenary 4: Oat genomics and bioinformatics</b>
0900	<b>Towards a pan-genome for hexaploid oat</b> Dr. Martin Mascher, Leibniz Institute of Plant Genetics and Crop Research, Germany
0930	<b>The mosaic reference genome of hexaploid oat marks a turning point in oat research and breeding</b> Dr. Nadia Kamal, Helmholtz Centre, Germany
0950	<b>A gene expression atlas for oat grain – from initiation to germination</b> Changyu Yi, La Trobe University, Australia
1010	<b>AABB oat tetraploid genomics from whole-genome assemblies of <i>A. barbata</i> and <i>A. abyssinica</i>.</b> Prof. Eric Jellen, Brigham Young University, USA
1030	<b>Morning tea</b>
1100	<b>Plenary 5: Oat breeding and genetics</b>
1100	<b>Genomic selection in oats and lessons from other crops</b> Dr. Lucia Gutierrez, University of Wisconsin – Madison, USA
1130	<b>How to combine genomic prediction and speed breeding to build a two-part breeding program in spring oats</b> Alf Ceplitis, Lantmannen Agriculture, Sweden
1150	<b>High-throughput field phenotyping of grain crops</b> Dr. Andrew Hennessy, University of Adelaide, Australia
1210	<b>Development of high yield potential dwarf milling oat varieties in Australia</b> Dr. Pamela Zwer, Australia
1230	<b>Lunch</b>

**Day 2 - Wednesday, 12th October 2022** (continued)

<b>Time</b>	<b>Activity</b>
1330	<b>Plenary 6: Global oat markets - production, trade and consumption</b>
1330	<b>Global oat market outlook</b> Randy Strychar, Oatinformation, Canada
1400	<b>Market outlook for Australian oats</b> Jason Craig, CBH Group, Australia (tbc)
1420	<b>Chilean oat industry - outlook</b> Alex Strodthoff, Empresas Agrotop, Chile
1440	<b>The PepsiCo Positive Approach - What it means for Australian oats: Working with farmers for shared value</b> Chris Maughan, Quaker Oats, Australia
1500	<b>Afternoon Tea</b>
1530	<b>Focus Session: Oat agronomy and global farming systems</b>
1530	Bill May, Agriculture and Agri-Food Canada
1545	Dr. Catherine Howarth, Aberystwyth University, Wales
1600	Garren Knell, ConsultAg, Australia
1615	Discussion facilitated by Ashley Wiese, oat grower, Australia
1700	<b>CLOSE</b>

<b>Conference Dinner</b>	
1830	Pre-dinner drinks
1900	<b>Conference Dinner</b>
2200	Evening ends

**Day 3 - Thursday, 13th October 2022**

Time	Activity	
0800	Registration and coffee	
0850	Welcome	
0900	<b>Plenary 7: Crop protection in oats - meeting weed, disease and pest challenges head on</b>	
0900	<b>Approaches to durable disease resistance – oat crown rust</b> Prof. Robert Park, University of Sydney, Australia	
0930	<b>Genome-wide association mapping of <i>Fusarium langsethiae</i> infection and mycotoxin accumulation in oat</b> Assist. Prof. Julio Isidro y Sánchez, Technical University of Madrid, Spain	
0950	<b>Identification of a major <i>Parastagnospora avenae</i> necrotrophic effector and its implication in the improvement of septoria leaf blotch of oats</b> Kar-Chun Tan, Curtin University, Australia	
1010	<b>Races of the oat stem rust pathogen identified from the alternate and accessory hosts in Spain</b> Jin Yue, US Department of Agriculture, USA	
1030	Morning tea	
1100	<b>Concurrent B1: Advances in breeding technologies</b>	<b>Concurrent B2: Oat agronomy and global farming systems</b>
1100	<b>Morphometric relationships and genome-wide associations of panicle, growth, and disease variables in a multiparent spring oat population</b> Dr. Craig H Carlson, US Department of Agriculture, USA	<b>Developing UK winter and spring oats growth &amp; development benchmarks and formulating the first UK Oats Growth Guide to help growers optimise yield and milling quality</b> Dr. Sarah Clarke, RSK ADAS Ltd, United Kingdom
1120	5 minutes moving	
1125	<b>May you live with interesting genomes - multiple domestication origins and other sources of diversity in cultivated oat</b> Tim Langdon, Aberystwyth University, Wales	<b>Managing oats for both grain and hay</b> Courtney Pierce, South Australian Research and Development Institute, Australia
1145	5 minutes moving	
1150	<b>Genomic prediction and training set optimization in a structured Mediterranean oat population</b> Assist. Prof. Julio Isidro y Sánchez, Technical University of Madrid, Spain	<b>Can grain yield and quality in oats be predicted from UAV analysis?</b> Sara Tudor, Aberystwyth University, Wales
1210	5 minutes moving	
1215	<b>Generation of functional genomics resources in oat using transposon mutagenesis and gene editing</b> Assoc. Prof. Jaswinder Singh, McGill University, Canada	<b>Assessing the impact of nitrogen supplementation in oats across multiple growth locations and years with targeted phenotyping and high-resolution metabolite profiling approaches</b> Will Allwood, Aberystwyth University, Wales
1235	<b>Lunch</b>	

**Day 3 - Thursday, 13th October 2022** *(continued)*

<b>Time</b>	<b>Activity</b>	
1330	<b>Concurrent C1: Oat breeding and genetics</b>	<b>Concurrent C2: Crop protection</b>
1330	<b>New oat cultivars in Argentina</b> Liliana Wehrhahne, National Institute of Agricultural Technology, Argentina	<b>T-2 toxin and T-2 toxin producing Fusarium from Minnesota (USA) oats</b> Mark Busman, US Department of Agriculture, USA
1350	5 minutes moving	
1355	<b>Global network for fodder and forage oat improvement: Breeding oats for environmental and social change</b> Dr. John Stevens, Flexiseeder Ltd., New Zealand	<b>The impact of oat leaf (crown) rust on hay and grain yield and quality</b> Kylie Chambers, Department of Primary Industries and Regional Development, Australia
1415	5 minutes moving	
1420	<b>OatToxLess: Oats tolerant to Fusarium</b> Elisabeth Zechner, Saatzucht Edelhof, Austria	<b>A complete genome reference for the oat crown rust fungus</b> Eva Henningsen, Australian National University, Australia
1440	5 minutes moving	
1445	<b>Mega-environment delineation and genomic selection in oat multi-year and multi-location unbalanced historical variety trials</b> Pablo Sandro, University of Wisconsin - Madison, USA	<b>Red leather leaf is a damaging foliar disease of hay and milling oats in south-eastern Australia</b> Mark Mclean, Agriculture Victoria, Australia
1505	<b>Afternoon Tea</b>	
1530	<b>Closing Plenary</b>	
1530	<b>Oat models of industry, science and global innovation</b> <i>Guest speaker to be announced</i>	
1600	<b>Closing review</b> Dr. Nick Tinker, Agriculture and Agri-Food Canada, International Oat Committee Chair	
1630	<b>International Oat Committee Meeting and Closing Drinks</b> <i>(all welcome)</i>	
1630	<b>Fostering an international oat community - a multichannel approach</b> Charlene Wight, Agriculture and Agri-Food Canada, Oat Newsletter and Speaking of Oats coordinator	
1650	<b>IOC Business</b>	
1730	Conference Close	