



Oral Programme

Sunday 24th March 2019

11:30		Registration Desk Opens Aula	
		Opening Remarks Room: Bartok Session Chairs: TBC	
13:00 – 13:45	Presentation title to be confirmed Plenary Speaker: Roberto Ridolfi, <i>FAO, Food and Agriculture Organization of the United Nations, Italy</i>		
		Session 1: Modelling climate change and its application to agriculture Room: Bartok Session Chairs: TBC	
13:45 – 14:30	[KEY.01] Transformative innovation in agriculture and its role in mitigation of and adaption to climate change <i>Mario Herrero, CSIRO Agriculture and Food, Australia</i>		
14:30 – 14:50	[O1.01] Modelling impact of possible future changes in agro-climate and technology on wheat and maize yields around the globe <i>Reimund Rötter, University of Goettingen, Germany</i>		
14:50 – 15:10	[O1.02] Sensitivity analyses of simulated biomass yield and carbon-fluxes from Euro-Mediterranean grasslands <i>Renáta Sándor, Agricultural Institute CAR HAS, Hungary</i>		
15:10 – 15:30	[O1.03] The global gridded crop model inter-comparison project phase II: assessing response surfaces of crop yields to changes in temperature, water, carbon dioxide, and nitrogen <i>James Franke, University of Chicago, USA</i>		
15:30 – 15:50	[O1.04] A regional nuclear conflict has global implications for food security <i>Jonas Jägermeyr, NASA Goddard Institute for Space Studies</i>		
15:50 – 16:20	Coffee Break & Poster Session 1 Aula		
		Session 2: Climate change and increased agricultural uncertainty Room: Bartok Session Chairs: TBC	
16:20 – 17:05	[KEY.02] Climate change and uncertainty in future agricultural systems – AgMIP frameworks and integrated applications Keynote: <i>Alexander Ruane, NASA Goddard Institute for Space Studies, USA</i>		
17:05 – 17:25	[O2.01] Understanding uncertainty on farmer decision-making in the context of climate change and nutrient management <i>Jessica Rudnick, UC Davis, USA</i>		
17:25 – 17:45	[O2.02] Proximal and remote sensing to evaluate the impact of climatic inter-annual irregularity in montado Mediterranean ecosystems- a case study <i>Joao Serrano, Universidade de Évora, ICAAM, Portugal</i>		
17:45 – 18:05	[O2.03] Assessing the potential to upscale carbon sequestration in agricultural systems via sustainable intensification <i>Eamon Haughey, Trinity College Dublin, Ireland</i>		
18:05 – 18:25	[O2.04] Farming with alternative pollinators (FAP) increases climate change resilience and farmers' net incomes <i>Stefanie Christmann, ICARDA, Morocco</i>		
18:25 – 19:25	Welcome Drinks Reception & Poster Session 1 Aula		
Monday 25 th March 2019			
		Session 3A: Effects of CO₂ on plant growth Room: Bartok Session Chairs: TBC	Session 3B: Food security in developing countries Room: Lehar Session Chairs: TBC
09:00 – 09:45	[KEY.03A] Talk title TBC Keynote: <i>Stephen Long, University of Illinois, USA</i>	[KEY.03B] Transforming agri-food systems in lower- and middle-income countries to meet the SDGs	



		Keynote: Philip Thornton, <i>International Livestock Research Institute, UK</i>
09:45 – 10:05	[O3A.01] Differential effects of CO₂ elevation on the response of leaf gas exchange to soil drying in tomato and barley plants <i>Fulai Liu, University of Copenhagen, Denmark</i>	[O3B.01] Constrained by land or water? Contrasting conundrum of food security in Bangladesh and Pakistan <i>Mohammed Mainuddin, CSIRO Land and Water, Australia</i>
10:05 – 10:25	[O3A.02] Elevated CO₂ mitigates the effects of anomalous drought reducing the proportion of abnormal reproductive structures in Arabic coffee <i>Miroslava Rakocevic, Embrapa Environment, Brazil</i>	[O3B.02] Implications of climate change for food security in Papua New Guinea <i>Mike Bourke, The Australian National University, Australia</i>
10:25 – 10:45	[O3A.03] Yield responses of quinoa to a combination water deficit stress and O₃ under elevated CO₂ in an open-top chamber experiment <i>Jacques Berner, North-West University, South Africa</i>	[O3B.03] Adapting agriculture in Sub-Saharan Africa to climate change - effective adaptation prioritization informed by process-based crop modelling <i>Lisa Murken, Potsdam Institute for Climate Impact Research, Germany</i>
10:45 – 11:15	Coffee Break & Poster Session 1 Aula	
	Session 4: Abiotic stress Room: Bartok Session Chairs: TBC	
11:15 – 12:00	[KEY.04] Stress adaptation, memory, plasticity: Strategic thoughts on improving crops' coping ability Keynote: Michael Dingkuhn, <i>CIRAD, French Agricultural Research Centre for International Development, France</i>	
12:00 – 12:20	[O4.01] Modeling rice metabolisms for elucidating stress responses and guiding cereal crop improvement <i>Bijayalaxmi Mohanty, Temasek Life Sciences Laboratory, Singapore</i>	
12:20 – 12:40	[O4.02] Improving drought tolerance and water use efficiency of maize in a semiarid environment <i>Qingwu Xue, Texas A&M AgriLife Research, USA</i>	
12:40 – 13:00	[O4.03] Quantifying the impact of heat stress on milk production in eastern Australia to inform climate change adaptation <i>Rachelle Meyer, University of Melbourne, Australia</i>	
13:00 – 14:00	Lunch Aula	
14:00 – 14:30	Poster Session 2 Aula	
	Session 4: Abiotic stress (continued) Room: Bartok	
14:30 – 14:50	[O4.04] A novel approach to simulating crop stresses: application to nitrogen-limited maize in sub-Saharan Africa Keynote: S. Sinha, <i>University of Leeds, UK</i>	
14:50 – 15:10	[O4.05] Regulatory role of silicon in mediating differential stress tolerance responses in two contrasting tomato genotypes under osmotic stress <i>Seyed Abdollah Hosseini, Agro Innovation International Roullier, France</i>	
15:10 – 15:30	[O4.06] Rice grain quality in response to simulated nocturnal warming under open-field condition <i>Muhammad Ishaq Rehmani, Ghazi University, Pakistan</i>	
15:30 – 16:00	Coffee Break & Poster Session 2 Aula	
	Session 5A: Impacts of climate change on nutrition, quality and resource use efficiency Room: Bartok Session Chairs: TBC	Session 5B: Improving the efficiency of the food chain Room: Lehar Session Chairs: TBC



16:00 – 16:45	[KEY.05A] Changes in wheat grain quality during the last 170 years on the Broadbalk Wheat Experiment Keynote: Sinda Ben Mariem, <i>Agrobiotechnology Institute, Spain</i>	[KEY.05B] Use of system performance metrics to improve the efficiency of the food chain Keynote: Dave Gustafson, <i>International Life Sciences Institute Research Foundation, USA</i>
16:45 – 17:05	[O5A.01] Economic viability of cover crops under California's changing climate Alyssa DeVincentis, <i>University of California, Davis, USA</i>	[O5B.01] Effect of mulching on weeds management, soil carbon and productivity of spring maize (<i>Zea mays</i> L.) Muhammad Asif, <i>University of Sargodha, Pakistan</i>
17:05 – 17:25	[O5A.02] Effects of high temperatures and application of biostimulant on yield and fruit quality in contrasting tomato genotypes Maria Manuela Rigano, <i>University of Naples Federico II, Italy</i>	[O5B.02] TBC
17:25 – 17:45	[O5A.03] Warming increases biomass while high CO₂ and water deficit decreases forage quality of a C₄ grass grown under open-air elevated CO₂ and temperature Carlos Martinez, <i>University of São Paulo, Brazil</i>	[O5B.03] TBC
19.30 – 22.00	Gala Dinner (optional – ticket holders only) Udvarhaz Etterem	

Tuesday 26th March 2019

	Session 6A: Plant-microbe interactions and climate change Room: Bartok Session Chairs: TBC	Session 6B: Reducing the impact of agriculture on climate change Room: Lehar Session Chairs: TBC
09:00 – 09:45	[KEY.06A] Pieces of the phytobiome: Environmental influences on plant health Keynote: Jan Leach, <i>Colorado State University, USA</i>	[KEY.06B] Adoption of cover crops for climate change mitigation in Europe - new insights from farm surveys Keynote: Jonas Kathage, <i>European Commission Joint Research Centre, Spain</i>
09:45 – 10:05	[O6A.01] Effect of elevated CO₂ and pathogen infection on phytohormone levels and transcript expression of genes involved in defense signalling in <i>Brassica juncea</i> Piyush Mathur, <i>University of North Bengal, India</i>	[O6B.01]
10:05 – 10:25	[O6A.02] Assessing the impact of future climate on the interactions between wheat, viruses, aphids and their natural enemies Ana Moreno-Delafuente, <i>Technical University of Madrid, Spain</i>	[O6B.02] Modelling legume agriculture to mitigate climate change Diana Marco, <i>CONICET, Argentina</i>
10:25 – 10:45	[O6A.03] Endophytic bacteria alleviate drought stress in peanut and save precious irrigation water Kamal Krishna Pal, <i>ICAR-Directorate of Groundnut Research, India</i>	[O6B.03] The role of agricultural intensification in Brazil's Nationally Determined Contribution (NDC) on emissions mitigation Rafael Silva, <i>University of Edinburgh, UK</i>
10:45 – 11:15	Coffee Break & Poster Session 2 Aula	
	Session 7: Innovative breeding practices Room: Bartok Session Chairs: TBC	



11:15 – 12:00	[KEY.07] The science, politics and challenges of improving wheat productivity under variable climates Keynote: Peter Langridge, <i>The University of Adelaide, Australia</i>
s	[O7.01] 4Gs for crop improvement Rajeev Varshney, <i>International Crops Research Institute for the Semi-Arid Tropics, India</i>
12:20 – 12:40	[O7.02] Understanding plant disease resistance genes to improve crop resilience Jacqueline Batley, <i>University of Western Australia</i>
12:40 – 13:00	[O7.03] Enhancing flowering period heat tolerance in pearl millet through shuttle breeding S.K. Gupta, <i>ICRISAT, India</i>
13:00 – 14:00	Lunch Aula
14:00 – 14:30	Poster Session 2 Aula
Session 8: New crops for a new climate Room: Bartok Session Chairs: TBC	
14:30 – 15:15	[KEY.08] Oil Crops for the Futures Keynote: Rodomiro Ortiz, <i>Swedish University of Agricultural Sciences, Sweden</i>
15:15 – 15:35	[O8.01] Genetic resources for climate change adaptation in West Africa Michael Abberton, <i>IITA, Nigeria</i>
15:35 – 15:55	[O8.02] BEAN ADAPT: The Genomics of Adaptation during Crop Expansion of Common Bean Roberto Papa, <i>Università Politecnica delle Marche, Italy</i>
15:55 – 16:15	[O8.03] Molecular breeding for the development of novel inter-specific hybrid sesame to combat changing climate Debabrata Dutta, <i>Bose Institute, India</i>
16:15 – 16:35	[O8.04] Domesticating new species and capturing the diversity of wild crop relatives Robert Henry, <i>University of Queensland, Australia</i>
16:35 – 16:45	Closing Remarks
16:45 – 17:15	Coffee Break Aula
17:15	End of Conference