

Programme

1st Cologne Conference on Food for Future

5-7 September 2018

Rautenstrauch-Joest-Museum, Cologne

Wednesday 05 September

- 12:00 – 1:45 pm Registration, Welcome Snack
- 1:45 – 2:00 pm **Welcome Address**
- 2:00 – 5:40 pm **Session I: Orphan Crops**
Chair: Timothy Jobe, University of Cologne
- 2:00 – 2:40 pm **Allen Van Deynze, University of California - Davis, USA**
Plant breeding is essential for nutritional security
- 2:40 – 3:20 pm **Uwe Sonnewald, University of Erlangen-Nuremberg, Germany**
Metabolic engineering of carbon pathways to enhance cassava root yield
- 3:20 – 4:00 pm **Coffee Break**
- 4:00 – 4:40 pm **Paul K. Kimurto, Egerton University, Kenya**
Genetic Improvement of Finger Millet (*Eleusine coracana*) for enhanced productivity and nutrition for increased food-nutritional security in Kenya
- 4:40 – 4:55 pm **Florence Opondo, Laikipia University, Kenya**
Can commercialization of orphan crops be a solution to the perennial food insecurity in sub-Saharan Africa?
- 4:55 – 5:10 pm **Lucie Temgoua, University of Dschang, Cameroon**
Socio-economic importance of *Dacryodes edulis* (Safou) in Western Cameroon
- 5:10 – 5:25 pm **Rebecca Jerop, Egerton University, Kenya and University of Cologne**
Agricultural innovations adoption and its effects on finger millet yields among smallholder farmers in Kenya
- 5:25 – 5:40 pm **Marie Avana-Tientcheu, University of Dschang, Cameroon**
Contribution to the domestication potential of yam (*Dioscorea* spp.) in Cameroon
- 5:40 – 7:30 pm **Poster Session and get-together**
- 7:30 – 9:00 pm **Public Lecture by Simone Dohle, University of Cologne**
"Why Do We Eat What We Eat? The Psychology of Eating"

Thursday 06 September

- 9:00 – 10:35 am **Session I: Orphan Crops**
Chair: Timothy Jobe, University of Cologne
- 9:00 - 9:40 am **Ian A. Graham, University of York, UK**
Mutation breeding in the genomics era - developing bespoke medicinal crops
- 9:40 – 10:20 am **Zerihun Tadele, University of Bern, Switzerland**
Orphan crops improvement: the need for concerted efforts
- 10:20 – 10:35 am **Opeyemi Esther Alabi, Federal University of Technology, Akure, Nigeria**
Effect of drying techniques, harvest seasons and their interaction on the functional properties of instant yam flour
- 10:35 – 11:00 am **Coffee Break**
- 11:00 – 12:20 am **Session II: Functional Food**
Chair: Richard Jacoby, University of Cologne
- 11:00 – 11:40 am **Mikhaela Neequaye, Quadram Institute, UK**
Better Brassicas for Better Health?
- 11:40 – 12:20 pm **Hiroshi Maeda, University of Wisconsin - Madison, USA**
Harnessing natural enzyme variants to build plant chemical platform for efficient production of nutraceuticals and pharmaceuticals
- 12:20 – 2:00 pm **Lunch**
- 2:00 – 3:35 pm **Session II: Functional Food**
Chair: Richard Jacoby, University of Cologne
- 2:00 – 2:40 pm **Johnathan Napier, Rothamsted Research, UK**
Making fish oils in plants – using metabolic engineering to produce healthy oils for direct and indirect human nutrition
- 2:40 – 3:20 pm **Cathie Martin, John Innes Centre, UK**
The future for food may be in our past: the importance of plants in our diets
- 3:20 – 3:35 pm **Hilaire Macaire Womeni, University of Dschang, Cameroon**
Plant as antioxidant in food: case of oxidative stability of oil
- 3:45 – 4:00 pm **Coffee Break**
- 4:00 – 5:30 pm **Public Plenary Discussion:**
"Food Security and Future of Plant Breeding - Are we able to ensure global food security based on the current status of plant sciences?"
Moderator: Svenja Rausch, University of Cologne
Keynote Speech: Lars Niehaus, University of Cologne
Panellists:
Dieter Birnbacher, University of Dusseldorf
Uwe Sonnewald, University of Erlangen/Nuremberg
Zerihun Tadele, University of Bern
Sabine Dorlöchter-Sulser, Misereor
Frank Röber, Corteva Agriscience

6:30 pm

Conference Dinner

Friday 07 September 2018

- 9:00 – 12:45 am **Session III: Innovative Food Sources & Production Systems**
Chair Antonella Succurro, University of Cologne
- 9:00 – 9:40 am **Arnold van Huis**, Wageningen University & Research, Netherlands
Edible insects to assure food security
- 9:40 – 10:20 am **Christopher Zeppenfeld**, Swarm Nutrition, Germany
Insect-based Food – Biblical Plague or Modern Superfood?
- 10:20 – 10:35 am **Sabine Bonneck**
Deliberations on entomophagy and animal welfare
- 10:35 – 11:00 am **Coffee Break**
- 11:00 – 11:40 am **Alison G. Smith**, University of Cambridge, UK
The potential of algae to provide nutritious feedstocks
- 11:40 – 12:20 pm **Michelle Watt**, Forschungszentrum Jülich, Germany
Roots to food security
- 12:20 – 12:35 pm **Fiona Wanjiku Moejes**, Bantry Marine Research Station, Ireland
Sea vegetables: a story of farmed seaweed in Ireland
- 12:35 – 12:50 pm **Marine Przybyl**, Max Planck Institute for Plant Breeding Research, Germany
New ways of fertility control: the investigation of a male sterile mutant collection of barley to improve hybrid seed production
- 12:50 – 2:00 pm **Lunch**