3rd WURomics Symposium
Advances in Plant and Food Metabolomics

PLACE: lecture hall "Waaierzaal" (1005/2005/2006) in the Orion building nr. 103
Wageningen Campus, Bronland 1, Wageningen
DATE: Thursday December 12th, 2019, 8.30 – 18.00
REGISTRATION & CLOAK ROOM: room 0034, near the entrance on the east side/Atlas side of the Orion building
ORGANISED BY: Wageningen University & Research and Graduate School EPS

In recent years, exceptional progress has been made in the application of -omics based technologies in plant and food research. In the two previous symposia we tackled General Omics advances and then, Next Generation Sequencing. This time the topic is advances in metabolomics. Metabolomics is the technology focusing on the small molecules which are determinant in many important phenotypic aspects of plants and food – plant disease resistance, abiotic stress, food quality, shelf life, flavour and fragrance, health promotion, among others. Metabolomics is now in its 20th year and metabolomics-based approaches have become well established in the crop, food and seed industries as well as in the field of nutrition and medicine. This symposium on 12th December will focus on three main topics where metabolomics is making important inroads: i) crop breeding, ii) crop and food quality, and iii) environment and the circular economy. We have brought together a remarkable list of internationally-renowned expert speakers interspersed with local pitches to make this an unforgettable day!

PROGRAMME:

08:15	08:45	Registration at the entrance on the east/Atlas side of the Orion building
Session 1: Metabolomics: the technology challenges		
08:45	09:30	***Keynote:*** **Prof.dr. Wolfram Weckwerth** – Ecogenomics and Systems Biology, Vienna Metabolomics Centre, Austria Title: Metabolomics or multi-omics? - opportunities and challenges
09:30	09:40	*Flash presenter*: Dr. Ric de Vos – BU Bioscience, Wageningen UR
09:45	10:30	***Keynote:*** **Dr. Steffen Neumann** – Leibniz Institute of Plant Biochemistry, Germany Title: Metabolomics: the data challenges
10:30	10:40	*Flash presenter*: Dr. Justin van der Hooft – WU Bioinformatics, Wageningen UR
10:45	11:15	Coffee/tea break
Session 2: Metabolomics: crop applications		
11:15	12:00	***Keynote:*** **Dr. Annick Moing** – INRA Bordeaux, France Title: Food crop metabolomics – the quest for quality
12:00	12:10	*Flash presenter:* Dr. Roland Mumm – BU Bioscience Wageningen UR
12:15	13:15	Lunch Break
Session 3: Metabolomics: food and non-food applications		
13:15	14:00	***Keynote:*** **Prof.dr. Augustin Scalbert** – WHO, International Agency for Research on Cancer, Lyon, France Title: The food metabolome in nutritional epidemiology
14:00	14:10	*Flash presenter:* Dr. Doris Jacobs – Unilever Research, Wageningen Campus
14:15	15:00	***Keynote:*** **Dr. Jane Ward** – National Centre for Plant Metabolomics, Rothamsted Research, UK Title: Metabolomics and non-food crops for the bio-economy

15:00	15:10	*Flash presenter:* Dr. Johanna Molenaar – BU Horticulture, Wageningen UR
15:15	15:45	Coffee/tea break
Session 4: Metabolomics: plant and crop secondary metabolites		
15:45	16:30	***Keynote:* Prof.dr. Jörg-Peter Schnitzler** – Institute of Biochemical Plant Pathology, Helmholtz Zentrum, Munich, Germany Title: Volatilomics: metabolomics and plant ecology
16:30	16:40	*Flash presenter:* Dr. Paolina Garbeva – NIOO-KNAW, Wageningen
16:45	17:30	***Keynote:* Prof.dr. Lloyd Sumner** - Biochemistry Department, University of Missouri, USA Title: Metabolomics and plant secondary metabolites
17:30	17:40	*Flash presenter:* Dr. Iris Kappers – WU Plant Physiology, Wageningen UR
17:45	17:50	Wrap-up and closure

Participation is **free** and includes lunch and coffee breaks but **registration is mandatory** for attendance. In case of a no-show or a cancellation after 25 November 2019, there will be a fee of €50.

This symposium and the affiliated workshop have been made possible by our generous sponsors:

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Organisers / contact persons: Robert Hall & Justin van der Hooft

Metabolomics - Wageningen Omics Facility: http://www.metabolomics.nl/