



Co-organisers: Danish Society for Analytical Chemistry, BioPeople, Danish Biochemical Society; Danish Biotechnological Society

5th Danish Symposium on Metabolomics

Date: Thursday 13th November 8.30 – 16.30, Auditorium A2-70.03

Location: University of Copenhagen, Faculty Science, Thorvaldsensvej 40, Frederiksberg C

Organizers: Nikoline J. Nielsen and Jan H. Christensen, University of Copenhagen and Kim Højly-Larsen, Symphogen.

Metabolomics concerns the comprehensive characterization of small molecule metabolites in biological systems. It can provide an overview of the metabolic status and global biochemical events associated with a cellular or biological system.

The main topic of the 5th Danish Symposium on Metabolomics is metabolomics research in Denmark; peak annotation and identification. We encourage researcher from Danish institutions to submit an abstract for oral presentation of 15min duration. As last year we will include a poster session and we urge participants to bring posters with metabolomics related research. Oral presentation and poster abstracts should be submitted to jch@plen.ku.dk no later than 27th October.

Program

08.45 – 09.15 Registration, coffee and exhibition

09.15 – 09.20 Welcome

Session 1: METABOLOMICS RESEARCH IN DENMARK

09.20 – 11:00 **Five open slots for presenting Danish Metabolomics Research**

11.00– 12.30 *Poster session, exhibition and lunch*

Session 2: ANNOTATION AND (TENTATIVE) IDENTIFICATION, DATABASES AND IDENTIFICATION TRIALS

12.30 – 14.00 **Steffen Neumann**, Bioinformatics and Mass Spectrometry, Leibniz Institute of Plant Biochemistry, Germany.

Dr Neumann is heading the Bioinformatics and Mass Spectrometry at Leibniz Institute of Plant Biochemistry. He is trained as computer scientist and bioinformatician in Bielefeld. His research focus is on development of tools and databases for metabolomics and computational mass spectrometry and also addressing the most pressing bottleneck in metabolomics, the identification of unknowns in mass spectrometry data. His group has made several databases and tools, which allow the identification of compounds beyond the molecular formula, and for which no reference spectra are available.

14.00 – 15.00 *Poster session, exhibition and coffee break*

Session 3: NOVEL NMR BASED METHODS FOR IDENTIFICATION AND QUANTIFICATION

15.00 – 16.30 **John van Duynhoven**, Unilever Research and Development, Vlaardingen, the Netherlands.

Prof. Dr Duynhoven is heading the spectroscopy and microscopy group at Unilever R&D Vlaardingen and also holds a part-time professorship at Wageningen University. His current research activities are in application of NMR for resolving complex food compositions and structure and assessment of the metabolic impact of diet on humans. In these areas he has initiated and led a range of academic-industrial collaborative projects.

16.30 – 16.35 A few final words from the organizers.

Registration on-line: www.biopeople.dk. The symposium is free. Registration is required.