FONDAZIONE EDMUND MACH

METABOLOMICS SEMINAR

14 February, 2020
10:30AM - 11:30AM
Room 6302 PRC

Featured speakers:

Thomas Moritz

Professor at Swedish University of Agricultural Sciences (Department of Forest Genetics and Plant Physiology, Umeå) and since 2019 also at the Novo Nordisk Foundation Center for Basic Metabolic Research (University of Copenhagen, Denmark). He has more than 20 years' experiences in biological mass spectrometry. His research in Umeå is focused on studying metabolic control of shoot elongation and wood formation in plants, as well as method development in metabolomics and its application in biology. Since 2013 he is director for the Swedish Metabolomics Centre (SMC).
The aim in his research at SMC is to understand the mechanisms of metabolic control of shoot elongation and wood formation in the model plant Populus. In today lecture he will present how plant hormones and other metabolites are involved in the control of plant development, with focus on wood formation, and how that can be studied by using mass spectrometry based metabolomics. He will also present development of metabolomics strategies at SMC.

Kajetan Trošt

Staff scientist at Novo Nordisk center for basic metabolic research, Copenhagen University. He started as a postdoc at Fondazione Edmund Mach working on nutritional metabolomics. After that, he moved to Steno Diabetes Centre in Copenhagen where he was involved into clinical trials in the field of diabetes and associated complications.
Clinical metabolomics is applied as research tool in different model experiments such as cell cultures, animal trials and clinical trials, which can range from few persons in acute settings up to thousands in epidemiological studies. The approaches mainly focus in discovery of new biomarkers, which would improve disease diagnostics and treatment monitoring. The ultimate goal is to support personalized medicine. Today´s talk will focus on applications of metabolomics methods in metabolic syndrome related research trials.