



Workshop Programme

The NERC Biomolecular Analysis Facility - Birmingham and the Birmingham Metabolomics Training Centre present

Introduction to Metabolomics for the Environmental Scientist

Instructors:

Prof Mark R. Viant Dr Ulf Sommer Dr Jasper Engel

Monday 21st September 2015

Time	Session
12.30 - 12.45	Registration
12.45 - 13.00	Welcome, introduction to the NERC Biomolecular Analysis Facility –
	Birmingham & to the Birmingham Metabolomics Training Centre
13.00 - 13.45	Lecture: Introduction to environmental metabolomics with case studies
13.45 – 14.15	Break
14.15 – 15.00	Lecture : Importance of experimental design, sample collection, and quality
	control
15.10 - 15.45	Lecture: Overview of sample preparation techniques
15:45-16:10	Lab: Sample prep demonstration (including tour of robotics facility)
16:15 – 17:00	Lecture: Overview of analytical technologies for metabolomics: mass
	spectrometry and NMR spectroscopy
17.00 – 17.30	Q&A session

Tuesday 22nd September 2015

Time	Session
09.00 - 9.50	Lecture: Overview of data processing for metabolomics
10.00 - 11.00	Lecture: Overview of statistics for metabolomics
11.00 – 11.15	Break
11.15 – 12.00	Lecture: Challenges for metabolite identification
12:00 - 13:00	Lunch (provided)
13.00 - 14.15	Lab: Tour of mass spectrometry instrumentation and NMR facility
14.15 – 15.15	Discussion about proposed metabolomics studies; Q&A session
15.15-15:30	Summary and wrap up

http://www.birmingham.ac.uk/facilities/metabolomics/masterclass/index.aspx



