

Multiple Biofluids and Tissue Types, from Sample Preparation to Analysis Strategies for Metabolomics

School of Biosciences, University of Birmingham, UK

Course Programme

Date	Time	Session
	09.00 – 09.15	Registration
	09.15 – 09.30	Introduction to the course and Birmingham Metabolomics Training Centre, <i>Dr Cate Winder</i>
	09.30 – 11.00	Introduction to metabolomics and analysing complex biological samples, <i>Dr Warwick Dunn</i>
	11.00 – 11.15	Break
Day 1	11.15 – 12.00	Sample preparation strategies, <i>Dr Cate Winder</i>
	12.00 – 12.45	Lunch
	12.45 – 15.00	Lab session : Sample preparation (biofluids) and QC preparation, <i>Dr Cate Winder</i>
	15.00 – 15.15	Break
	15.15 – 17.30	Lab session : Sample preparation (tissue and non-polar extractions), <i>Dr Cate Winder</i>

Day 2	09.00 – 10.00	Challenges in tissue sample preparation, <i>Dr Warwick Dunn</i>
	10.00 – 12.15	Lab session : UHPLC-MS set-up, familiarization and instrument set-up and analysis, <i>Dr Cate Winder</i>
	12.15 – 13.00	Lunch
	13.00 – 15.30	Lab session : Data acquisition and data review, <i>Dr Cate Winder</i>
	15.30 – 15.45	Break
	15.45 – 16.30	Overview of data processing, <i>Dr Ralf Weber</i>
	16.30 – 17.30	Hands-on data processing, <i>Dr Ralf Weber</i>
Day 3	09.00 – 9.45	Introduction to data analysis, <i>Dr Ralf Weber</i>
	09.45 – 10.45	Computer workshop : Data analysis with example data from urine and tissue, <i>Dr Ralf Weber</i>
	10.45 – 11.00	<i>Break</i>
	11.00 – 12.30	Computer workshop : Data analysis with example data from urine and tissue, <i>Dr Ralf Weber</i>
	12.30 – 13.15	Lunch
	13.15 – 14.15	Overview of metabolite identification, <i>Dr Warwick Dunn</i>
14.15 – 15.30	Q&A : Tips and tricks from the experts and question session, <i>Dr's Dunn and Winder</i>	