

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

Course Programme

Date	Time	Session	
Day 1	09.00 – 09.15	Registration	
	09.15 – 09.30	Lecture : Introduction to the course and Birmingham Metabolomics Training Centre <i>Dr Cate Winder</i>	
	09.30 – 11.00	Lecture : Introduction to metabolomics and analysing complex biological samples <i>Professor Warwick Dunn</i>	
	11.00 – 11.15	Break	
	11.15 – 12.00	Lecture : Sample preparation strategies <i>Dr Cate Winder</i>	
	12.00 – 12.45	Lunch	
	12.45 – 15.00	Group 1 : Lab session : Sample preparation (tissue, biphasic) <i>Dr Andy Southam</i>	Group 2 : Lab session UHPLC-MS set-up, familiarization and instrument set-up <i>Dr Cate Winder</i>
	15.00 – 15.15	Break	
	15.15 – 17.30	Group 1 : Lab session UHPLC-MS set-up, familiarization and instrument set-up <i>Dr Cate Winder</i>	Group 2 : Lab session : Sample preparation (tissue, biphasic) <i>Dr Andy Southam</i>

Day 2	09.00 – 10.00	Lecture : Challenges in tissue sample preparation <i>Professor Warwick Dunn</i>	
		10.00 – 11.30 Group 1 : Lab session : Sample preparation (biofluids and QC preparation) <i>Dr Andy Southam</i>	10.00 – 11.15 Group 2 : Lab session : Data acquisition and sample reconstitution <i>Dr Cate Winder</i>
	10.00 – 13.00	11.30 – 11.45 Break	11.15 – 11.30 Break
		11.45 – 13.00 Group 1 : Lab session : Data acquisition and sample reconstitution <i>Dr Cate Winder</i>	11.30 – 13.00 Group 2 : Lab session : Sample preparation (biofluids and QC preparation) <i>Dr Andy Southam</i>
	13.00 – 13.45	Lunch	
	13.45 – 14.45	Lab session : Data acquisition and data review <i>Dr Cate Winder</i>	
	14:45 – 15:30	Lab session : Hands-on MS/MS <i>Dr Cate Winder</i>	
	15.30 – 15.45	Break	
	15.45 – 16.30	Lecture : Overview of data processing <i>Dr Ralf Weber</i>	
	16.30 – 17.30	Computer workshop : Hands-on data processing <i>Dr Ralf Weber</i>	
Day 3	09.00 – 9.45	Lecture : 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	Break	
	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	Lecture : Overview of metabolite identification <i>Professor Warwick Dunn</i>
14.15 – 15.30	Q&A : Tips and tricks from the experts and question session <i>Professor Warwick Dunn and Dr Cate Winder</i>
15.30 – 15.40	Feedback survey <i>Mr David Epps</i>