

Introduction to Metabolomics for the Microbiologist

School of Biosciences, University of Birmingham, UK

Course Programme

Date	Time	Session
Day 1	09.15 – 09.30	Registration
	09.30 – 09.45	Introduction to the course and Birmingham Metabolomics Training Centre, <i>Dr Cate Winder</i>
	09.45 – 10.30	Introduction to metabolomics, <i>Professor Warwick Dunn</i>
	10.30 – 11.15	Experimental design with case studies, <i>Professor Warwick Dunn</i>
	11.15 – 11.30	Break
	11.30 – 12.15	Analytical strategies applied in metabolomics to analyse complex biological samples, <i>Professor Warwick Dunn</i>
	12.15 – 13.00	Lunch
	13.00 – 13.45	Sample preparation strategies in microbial metabolomics, <i>Dr Cate Winder</i>
	13.45 – 16.30	Lab session : Sample preparation strategies, <i>Dr Cate Winder</i>
	16.30 – 17.00	Experimental design workshop, <i>Dr Cate Winder</i>

Day 2	09.15 – 12.00	Lab session : UHPLC-MS set-up, familiarization and data acquisition, <i>Dr Cate Winder</i>
	12.00 – 12.45	Lunch
	12.45 – 13.45	Data review, <i>Dr Cate Winder</i>
	13.45 – 14.45	Lab session : MS/MS data acquisition, <i>Dr Cate Winder</i>
	14.45 – 15.00	Break
	15.15 – 17.30	Computer workshop : Data processing and assessing data quality, <i>Dr Cate Winder</i>
Day 3	09.15 – 10.15	Introduction to data analysis, <i>Dr Gavin Lloyd</i>
	10.15 – 12.15	Computer workshop : Data analysis with example data using MetaboAnalyst, <i>Dr Gavin Lloyd</i>
	12.15 – 12.45	Lunch
	12.45 – 13.30	Introduction to metabolite annotation and identification, <i>Professor Warwick Dunn</i>
	13.30 – 14.45	Computer workshop : Metabolite Identification pipeline, <i>Professor Warwick Dunn</i>
	14.45 – 15.45	Q&A : Tips and tricks from the experts and question session, <i>Professor Warwick Dunn, Dr Cate Winder</i>
	15.45 – 16.00	Feedback session, <i>David Epps</i>