UNIVERSITY OF BIRMINGHAM | BIRMINGHAM METABOLOMICS TRAINING CENTRE | ThermoFisher SCIENTIFIC

Metabolite Identification with the Q Exactive and LTQ Orbitrap Elite

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** *Dr Cate Winder*	
	09.30 – 10.30	**Lecture : Introduction to metabolomics and analysing complex biological samples** *Professor Warwick Dunn*	
	10.30 – 10.45	Break	
	10.45 – 11.40	**Lecture : Overview of instrumentation and their potential in metabolite identification** *Professor Warwick Dunn*	
	11.40 – 12.45	**Lecture : Tools for mass spectral interpretation** *Professor Warwick Dunn*	
	12.45 – 13.30	Lunch	
	13.30 – 16.00	Group 1 : **Lab session : Q Exactive (Instrument set-up, DDA and DIA method set-up)** *Dr Cate Winder*	Group 2 : **Lab session : LTQ Orbitrap Elite (MS/MS, MS^n, optimizing methods for difficult structural elucidation)** *Dr Lukáš Najdekr*
	16:00 – 16:15	Break	
	16.15 – 17.30	**Computer workshop : Instrument software and searching mass spectral libraries** *Dr Ralf Weber*	

	09.15 – 10.45	Group 1 : **Lab session : LTQ Orbitrap Elite (MS/MS, MS^n, optimizing methods for difficult structural elucidation)** *Dr Lukáš Najdekr*	Group 2 : **Lab session : Q Exactive (Instrument set-up, DDA and DIA method set-up)** *Dr Cate Winder*
	10.45 – 11.00	Break	
	11.00 – 12.00	Group 1 : **Lab session : LTQ Orbitrap Elite (MS/MS, MS^n, optimizing methods for difficult structural elucidation)** *Dr Lukáš Najdekr*	Group 2 : **Lab session : Q Exactive (Instrument set-up, DDA and DIA method set-up)** *Dr Cate Winder*
	12.00 – 12.30	Lunch	
Day 2	12.30 – 13.30	Group 1 : **Lab session : Q Exactive (Instrument set-up, DDA and DIA method set-up)** *Dr Cate Winder*	Group 2 : **Lab session : LTQ Orbitrap Elite (MS/MS, MS^n, optimizing methods for difficult structural elucidation)** *Dr Lukáš Najdekr*
	13.30 – 15.00	Group 1 : **Lab session : LTQ Orbitrap Elite (MS/MS, MS^n, optimizing methods for difficult structural elucidation)** *Dr Lukáš Najdekr*	Group 2 : **Lab session : Q Exactive (Instrument set-up, DDA and DIA method set-up)** *Dr Cate Winder*
	15.00 – 15.15	**Lab session : Review identification of unknown metabolites** *Dr Cate Winder*	
	15.15 – 15.30	Break	
	15.30 – 16.30	**Computer workshop : Using Mass Frontier** *Professor Warwick Dunn*	
	16.30 – 17.15	**Q&A : Tips and tricks from the experts and question session** *Professor Warwick Dunn & Dr Cate Winder*	
	17.15 – 17.30	**Feedback survey** *Mr David Epps*	