

Hands-on NMR Spectroscopy for Metabolic Profiling

24th-28th April 2023

3rd floor Burlington Danes Building, Hammersmith Hospital Campus
Imperial College London

	Monday Introduction	Tuesday Analytical Platform	Wednesday Data Analysis	Thursday Met. ID	Friday Targeted Analysis and final
09:00-09:15	Registration				
09:15-09:45	Ice-Breaker				
09:45-10:15	Metabolic Profiling Applications and Workflow (1.5h)	Instrument Set-Up and Experiments (1.5h)	Introduction to Data Pre- processing	Met-ID strategies for NMR	Targeted Analysis Approaches (1h)
10:15-11:15				Computational Tools for Met- ID	Targeted Analysis Workshop (1.5h)
11:15-11:45	Coffee-Break				
11:00-11:30	NMR Theory I (1h)	Hands-on Experimental Set-Up (II)	Data Pre- processing Workshop	Coffee-Break	Coffee-Break
11:30-12:00				2D NMR applications for Met-ID	
12:00-12:30	Lunch				Case Study
12:30-13:00		Lunch			
13:00-13:30					
13:30-14:00	NMR Theory II (1h)	Experimental Design (1h)	Workshop Preparation	2D NMR analysis workshop	Case Study
14:00-14:30	Coffee-Break				
14:30-15:00	Sample Preparation (1h)	Coffee-Break	Introduction to Statistics		Final Review
15:00-15:30					
15:30-16:00		Analytical QC	Coffee-Break	Trouble Shooting/Tips and Tricks (1.5h)	
16:00-16:30	Hands-on Spec. Calib. (I) (1.5h)				
16:30-17:00		Hands-on 2D Experimental Set-Up (I)	Data Analysis Workshop		
17:00-17:15	Summary				
	Course Mixer 17:15-19:15			Course Dinner 18:00-20:00	

Lectures
Practical
Case study
Social
Breaks