

Proteomics Hands-on Training Course: Basics of Protein Sample Processing & Analysis – Michaelmas Term 2016

DATES: Monday, 31st October – Tuesday, 1st November & Thursday, 3rd November

VENUE: [Target Discovery Institute](#), Old Road Campus (Building 6)

REGISTRATION: OPEN to 8 participants. Register by email [here](#).

In this 3-day training workshop participants will be provided an introduction on how to use proteomics techniques to address their biological questions and learn how to process and analyse samples using mass spectroscopy. The course consists of 2 theoretical and 3 practical modules and is aimed at those with little or no background in proteomic workflows.

Programme:

Monday, 31st October	
10:00 – 12:00	Introduction to mass spectroscopy-based proteomics: How it works, experimental design and options for quantitative analysis
13:00 – 17:00	Hands-on Sample Prep*: in-solution or in-gel tryptic digest of your own sample (day 1)
Tuesday, 1st November	
10:00 – 12:00	Hands-on Sample Prep*: in-solution or in-gel tryptic digest of your own sample (day 2)
13:00 – 16:00	Fundamentals of Data Analysis: Using MASCOT for database searching, label-free quantitation and free alternatives for data analysis
Thursday, 3rd November	
10:00 – 12:00	Analyse Your Own Data: database searching and interpretation of your MS results

* Participants are asked to bring their own sample for use in the practical modules. This can be either a protein or protein mixture in solutions, or an SDS-PAGE gel band. Alternatively, we will provide a total cell lysate for processing.