

## **Proteomics Hands-on Training Course: Basics of Protein Sample Processing & Mass Spectrometry Analysis – Michaelmas Term 2018**

**DATES:** Monday, 12<sup>th</sup> November – Wednesday, 14<sup>th</sup> November, 2018

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

**REGISTRATION:** OPEN to 10 participants. Register by email [here](#).

**\*\*Please include your position, PI's name, department and the type of proteomics work you plan to use in your registration email.**

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 spectrometry. The course consists of 2 theoretical and 3 practical modules and is aimed at those with little or no background in proteomic workflows.

### **Programme:**

<b>Monday, 12<sup>th</sup> November</b>	
10:00 – 12:00	<b>Introduction to mass spectrometry-based proteomics:</b> How it works, experimental design and options for quantitative analysis
13:00 – 17:00	<b>Hands-on Sample Prep*:</b> in-solution or in-gel tryptic digest of your own sample (day 1)
<b>Tuesday, 13<sup>th</sup> November</b>	
10:00 – 12:00	<b>Hands-on Sample Prep*:</b> in-solution or in-gel tryptic digest of your own sample (day 2)
13:00 – 16:00	<b>Fundamentals of Data Analysis:</b> Using MASCOT for database searching, label-free quantitation and free alternatives for data analysis
<b>Wednesday, 14<sup>th</sup> November</b>	
10:00 – 12:00	<b>Analyse Your Own Data#:</b> database searching and interpretation of your MS results
12:00 – 1:00	<b>Basic Dataset Analysis:</b> common ways of exploring proteomic datasets using free resources

\* 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.

# Participants are asked to bring a laptop with them to use for the analysis portion of the Day-3 training.