### Proteomics Hands-on Training Course: Basics of Protein Sample Processing & Analysis – Hilary Term 2018

**DATES:** Monday, 5th March – Thursday, 8th March, 2018

**VENUE:** [Target Discovery Institute](http://www.tdi.ox.ac.uk/_asset/file/old-road-campus-map.pdf), Old Road Campus (Building 6)

**REGISTRATION:** OPEN to 10 participants. Register by email [here](mailto:jillian.simon@cardiov.ox.ac.uk?subject=Hands-on%20Training%20).

\*\****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:**

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| **Monday, 5th March** | |
| 10:00 – 12:00 | **Introduction to mass spectrometry-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, 6th March** | |
| 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, 8th March** | |
| 10:00 – 12:00 | **Analyse Your Own Data:** database searching and interpretation of your MS results |
| 12:00 – 1:00 | **Basic Statistical Analysis using MeV:** common ways ofexploring 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 statistical analysis portion of the Day-3 training.