

Symposium on Environmental Proteomics

Wednesday 2 July 2014 (9.30am-4pm)

JESSOP WEST EXHIBITION SPACE

34 Gell Street, Sheffield, S3 7QY

Attendance is free of charge (lunch provided)

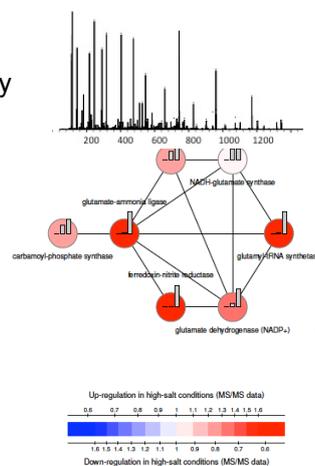
Contact: j.pandhal@sheffield.ac.uk

Registration: <https://www.eventbrite.co.uk/e/symposium-on-environmental-proteomics-tickets-11416819013>

Objectives

The objectives of this symposium are to provide a view into how the field of proteomics is being applied to answer questions related to the environment, ecology and engineering. There will be presentations in the following key areas:

- Metaproteomics of polluted aquatic environments
- Population proteomics biology
- Host-parasite interactions
- Proteomics in archaeology
- Bioinformatics
- Engineering biological systems
- Adaptation to climate change
- Post-translational modifications in social insects



Background

The popularity of omics technologies to answer fundamental questions in environmental science and ecology has grown rapidly in the last decade. The application of metagenomic tools to reveal what organisms are present and their potential function in specific environments is one such example.

However, we now know that genes do not reveal the full story of how an organism functions, highlighted by the fact that fruit flies contain a whopping 60% of the total number of genes as humans. Where is the difference in complexity coming from? This has led us to the post-genomic era- where fields such as proteomics are receiving further attention. Proteomics is the study of the final gene products, i.e. proteins, in cells, tissues, organs or environmental samples. Only a few years ago, this field received criticism related to the fact that only abundant proteins could be identified and mapped, but with rapid advancement in mass spectrometry and chromatographic technologies, combined with burgeoning databases of DNA sequences, does this disparagement still hold true?



If you want to learn more about environmental proteomics, and specifically how these fields tell us about what organisms are doing or how they are adapting or interacting, register for this free symposium held at Jessop West Exhibition Space on 2nd July 2014. Places are limited. Register at:

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Posters

It'll be great if you can bring a poster to talk about your research or your interests. Posters should be A0 portrait and author(s) and title should be sent to Jags Pandhal (j.pandhal@sheffield.ac.uk)

Confirmed speakers

Professor Kenneth Reardon (Colorado State University, USA), Dr. Bernhard Renard (Robert Koch Institute, Germany), Dr. David Biron (LMGE, France).

