



The world's leading experts in metabolic science are proud to announce a new, state-of-the-art laboratory training facility:

The Imperial International Phenome Training Centre

in association with

The MRC-NIHR National Phenome Centre

Introducing

Hands-on NMR Spectroscopy for Metabolic Profiling

2nd-6th June 2014

**Sir Alexander Fleming Building 660B
Imperial College London, Imperial College Road
South Kensington SW7 2AZ London UK**

CONTENT

- Overview of NMR-based metabonomics
- NMR Theory
- Experimental Design
- Software (TopSpin, MATLAB, SIMCA)
- Hands-on practical sessions
 - Sample preparation
 - Instrument set-up
 - Sample analysis
 - Spectral processing
- Data Pre-processing
- Statistical Data Analysis
- Metabolite Identification
- Troubleshooting
- Problem-based Learning