

Metabolic Phenotyping in Disease Diagnosis & Personalised Health Care

16th – 19th June 2015

Imperial College London

*Lecture Theatre 1.47, Royal School of Mines, Imperial College London,
South Kensington, SW7 2AZ, London, UK*

- ❖ Hands-on Workshops
 - ❖ NMR Spectroscopic Tools
 - ❖ Mass Spectrometry Approaches
 - ❖ Metabolite Identification
 - ❖ QC strategies and Study Design
 - ❖ Data Analysis and Interpretation
 - ❖ Panel Discussions
 - ❖ Tips and Tricks

Fee

Students: £375

Academics: £625

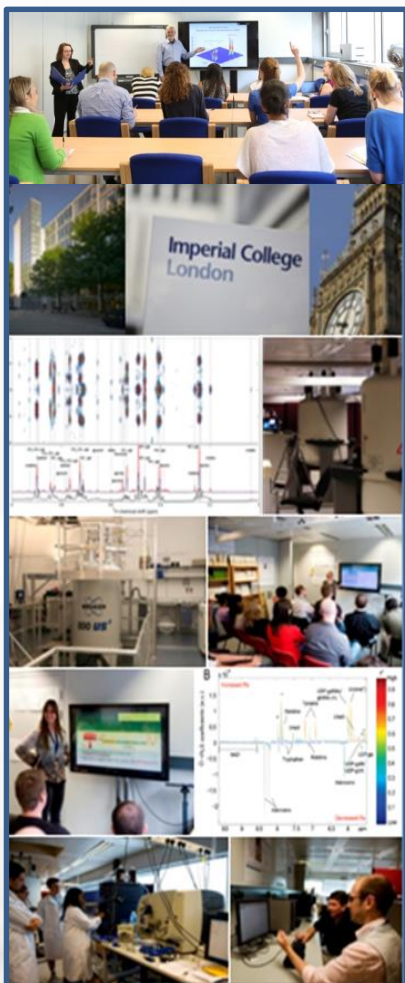
Industry: £1250

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Booking online: http://www5.imperial.ac.uk/medicine/coursebookings/metabolicprofiling_06_2015.html



DAY 1 Tues 16th June

| | | |
|------|-------------------------|---------------|
| 0930 | Registration and Coffee | |
| 1000 | Introductory Lecture | Elaine Holmes |
| 1115 | Coffee | |

SESSION 1: NMR for Metabolic Profiling

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|------|---------------------------------------|---------------------------|
| 1130 | NMR Background | John Lindon |
| 1230 | Lunch | |
| 1330 | NMR-based Metabonomics Pipeline | Beatriz Jimenez |
| 1430 | Application of NMR-based metabonomics | Jake Bundy |
| 1530 | Coffee | |
| 1545 | Metabolite Identification using NMR | Richard Barton |
| 1645 | Lab Tour | Jia Li/Maria Gomez Romero |
| 1730 | Close | |

DAY 2 Weds 17th June

| | | |
|------|--------|--|
| 0900 | Coffee | |
|------|--------|--|

SESSION 2: Mass Spectrometry for Metabolic Profiling I

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|------|--|--------------------|
| 0930 | Chromatography for Metabolic Profiling | Nicola Gray |
| 1030 | LC-MS for Metabonomics | Maria Gomez Romero |
| 1130 | Coffee | |
| 1150 | GC/CE-MS and Metabonomics | Coral Barbas |
| 1250 | Lunch | |

SESSION 3: Multivariate Statistical Data Analysis I

| | | |
|------|---|----------------------|
| 1350 | Introduction to PCA and PLS-DA | Marcelo Segura |
| 1450 | Data Analysis Demonstration | Marcelo Segura |
| 1530 | Coffee | |
| 1550 | HAND-ON DATA ANALYSIS EXERCISE: PCA & PLS-DA | Training Instructors |
| 1730 | Close | |

DAY 3 Thurs 18th June

| | | |
|------|--------|--|
| 0900 | Coffee | |
|------|--------|--|

SESSION 4: Multivariate Statistical Data Analysis II

| | | |
|------|---|----------------------|
| 0930 | Introduction to OPLS/O2PLS | Marcelo Segura |
| 1010 | DATA ANALYSIS WORKSHOP: O2PLS | Training Instructors |
| 1130 | Coffee | |
| 1150 | Tips, Tricks and Traps in Analysing Metabolic Profiles | Kirill Veselkov |
| 1250 | Lunch | |

SESSION 5: Mass Spectrometry for Metabolic Profiling II

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|------|--|----------------|
| 1400 | Sense and Nonsense in Global Meta- bolic Profiling by LC-MS | Ian Wilson |
| 1500 | Coffee | |
| 1530 | Metabolite Identification in MS | John Shockcor |
| 1630 | Application of MS-based metabonomics | Elizabeth Want |
| 1730 | Close | |

COURSE DINNER @ 7PM

DAY 4 Fri 19th June

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|------|--------|--|
| 0900 | Coffee | |
|------|--------|--|

SESSION 6: Applications

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|------|--|---------------|
| 0930 | Metabonomics Data and Pathways | Rachel Cavill |
| 1030 | Quantitative Genetics and Network Biology with Metabolic Data | Marc Dumas |
| 1130 | Coffee & Biscuits | |
| 1150 | Exploring & Exploiting the Metabolic Phenotype of Cancer | Hector Keun |
| 1250 | Lunch & Discussion | |
| 1350 | Close | |