**An Introduction to Omics**

**Thursday 2nd February and Friday 3rd February**

**West Medical Building Computer Cluster 515**

**Day 1**

0930 – 1000 Overview of Polyomics (Michael Barrett)

1000 – 1045 Genomics (Graham Hamilton, David Meltzer): Lecture

1045 – 1100 Tea/Coffee break (In Wolfson Link Courtyard)

1100 – 1230 Genomics (Graham Hamilton): Practical Session

1230 – 1330 Lunch (Wolfson Link Courtyard)

1330 –1415 Transcriptomics (Pawel Herzyk): Lecture

1415 – 1515 Transcriptomics (Pawel Herzyk): Practical Session

1515 – 1530 Tea/Coffee break (Wolfson Link Courtyard)

1530 – 1600 Transcriptomics (Pawel Herzyk): Practical Session Cont’d

1600 – 1645 Statistical Challenges in Omics Data Analysis (Rónán Daly): Lecture

**Day 2**

0900 – 0945 Introduction to Mass Spectrometry (Stefan Weidt): Lecture

0945 – 1030 LC-MS and GC-MS based Metabolomics (Gavin Blackburn): Lecture

1030 – 1045 Tea/Coffee break (Wolfson Link Courtyard)

1045 – 1200 Metabolomics (Yoann Gloaguen and Gavin Blackburn): Practical session

1200 – 1245 NMR-based Metabolomics (Naomi Rankin): Lecture

1245 – 1345 Lunch (Wolfson Link Courtyard)

1345 – 1500 Proteomics (Richard Burchmore): Lecture

1500 – 1545 Proteomics (Richard Burchmore): Practical session

1545 – 1600 Tea/Coffee break (Wolfson Link Courtyard)

1600 – 1645 Omics and Modelling (Fiona Achcar): Lecture