

Bioanalytical tools

Excellent facilities exist at the University of Birmingham for both NMR spectroscopy and mass spectrometry based metabolomics.

[Henry Wellcome Building for Biomolecular NMR Spectroscopy \(http://www.nmr.bham.ac.uk/index.shtml\)](http://www.nmr.bham.ac.uk/index.shtml) (HWB•NMR)

This purpose-designed NMR facility opened in November 2004 and houses state-of-the-art instrumentation including two 500 MHz, three 600 MHz, 800 MHz and 900 MHz NMR spectrometers, including cryoprobes. Automated sample changers facilitate high throughput metabolomics research. In addition this facility has been established as a European High Throughput NMR Centre for Metabolomics and Ligand Discovery. The HWB•NMR provides an excellent collaborative environment for research in the areas of biomolecular NMR spectroscopy and metabolomics, and is managed and operated by a staff of five highly experienced NMR scientists. For further details visit the HWB•NMR website.

[School of Biosciences Mass Spectrometry Facility \(/facilities/advanced-mass-spectrometry/index.aspx\)](/facilities/advanced-mass-spectrometry/index.aspx)

This facility includes three Thermo Fisher Scientific mass spectrometers: an ultra-high resolution hybrid LTQ FT Ultra mass spectrometer, an Orbitrap Velos, and most recently a TSQ Vantage for targeted metabolite analysis. All three spectrometers are equipped with Triversa chip-based nanoelectrospray sources (Advion Biosciences) and HPLCs (Dionex).

Please **[contact NBAF staff \(/facilities/metabolomics/contact/index.aspx\)](/facilities/metabolomics/contact/index.aspx)** should you require bioanalytical services beyond those listed here.

