

Laboratory

We offer users a 45 sqm wet-lab stocked with the consumables and equipment needed for NMR sample preparation; access to other biophysical tools can also be arranged.

Equipment available in the NMR laboratory

- centrifuges for NMR sample tubes and eppendorf tubes
- chemical fumehood
- dryer for tubes
- freezers (-20° and -80°C)
- pH meter for NMR sample tubes
- refrigerators
- tube cleaner

Consumables including 5 mm NMR tubes, deuterated buffers, DMSO and D₂O are available at cost from Sue Rhodes.

The **Birmingham Structural Biology Forum** (<http://www.bsf.bham.ac.uk/>) offers additional facilities for biophysical analysis of proteins including:

- Atomic Force Microscopy
- Calorimetry
- Circular Dichroism
- Fluorescence
- FT-ICR mass spectrometry
- Infrared Spectroscopy
- Surface Plasmon Resonance
- X-ray crystallography

We are members of the **Technology Hub** (<http://medweb4.bham.ac.uk/technologyhub/listing.php?id=35>) which provides a range of facilities.

The Protein Expression facility in the School of Cancer Sciences offers:

- Fermentation (E coli, Pichia) in three refrigerated incubator shakers and two fermentors
- Protein purification systems: two AKTA Prime and two AKTA Purifier chromatography systems
- Cell lysis by French Press, Emulsiflex and sonicator
- UV-VIS spectrophotometer
- Thermofluor 96 well plate screening for NMR conditions and ligands

The floorplan of the NMR building shows the position of the laboratory

