



Henry Wellcome Building for Biomolecular NMR Spectroscopy

www.nmr.bham.ac.uk

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Equipment of interest

**5mm TXO 600 MHz Z-PFG cryogenic probe (with cooled SampleJet)

for ¹³C/¹⁵N-optimised & ¹H-sensitive direct detection (cooled ¹H, ¹³C, ¹⁵N, ²H preamplifiers) "proton-less" NMR

5mm QNP 600 MHz Z-PFG cryogenic probe (with cooled SampleJet)

for ³¹P NMR of DNA/RNA samples; interactions of membrane proteins with phospholipid bilayer

1.7mm TCI 600 MHz Z-PFG cryogenic probe (with cooled SampleJet)

for mass-limited samples e.g. metabolomic studies and ligand screening (only 30 µl volume required)

4mm HR-MAS HCD 500 MHz Z-PFG RT probe

for intact biological tissue samples

**5mm TCI 900 MHz Z-PFG cryogenic probe

for ¹H-optimised & ¹³C/¹⁵N-sensitive direct detection (cooled ¹H, ¹³C, ¹⁵N, ²H preamplifiers) shaped tube compatible (optimum sensitivity for salty samples, 350 µl volume)

** Open access Wellcome Trust-funded use (shared use: 70% of available time)



Access

Availability (academic):

70 % shared access (B900)

~20 % shared access (all other magnets)

Access Modes: Spectrometer time (hands-on) Collaborative Contract research

Cost (academic):

free* – Wellcome Trust-funded 900 & 600 TXO probe direct costs only – collaborative use fEC (+ staff help) – all other spectrometers & modes of access

* currently until Dec 2017

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Access Form





Application for Access by Academic Users

Please fill in the following form using accompanying guidelines in order to gain access to the HWB-NMR spectrometers. All the HWB-NMR spectrometers are available at rates at http://www.nmr.bham.ac.uk/access/policies.shtml.y

Generous funding from the Wellcoppe, Trust provides external academic users in the UK and in emerging market countries with free access to the 900 MHz NMR system and a 800 MHz TXO (¹⁹C direct detection) probe for internationally competitive biomedical research.

Please email the completed form to Sara Whittaker at <u>S.D.M.Whittaker@bham.ac.uk</u>, who will submit it to members of the Scientific Review Panel to ensure that it receives a fair and prompt review (Wellgogge, Trust free access applications only).

For further information, please phone +44 (Q)121,41 48358.

- Project Title (for example, of the grant used to fund the work):
- Principal investigator/Group leader(s) (name, nationality, work address, phone, fax, email, VAT
 registration number for institution if VAT exempt and not just using the free 900MHz spectrometer)
- 3. Hands-on user to visit HWB-NMR (name, nationality, work address, phone, fax, email)
- 4. Project proposal (maximum of 1 page, for convenience this can be derived from a grant abstract)

Access form available at: http://www.birmingham.ac.uk/facilities/nmr/access/apply-for-time.aspx

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Bruker 900 MHz



Bruker 600 MHz

NMR systems



Varian 800 MHz



Bruker 500 MHz



Bruker 600 MHz



Bruker 500 MHz





Capital Investments funded by:

