

## Spectrometers

We offer access to seven NMR spectrometers with Oxford Instruments and Bruker magnets (500-900 MHz) and Varian (now Agilent) and Bruker consoles for protein structure determination, ligand screening and metabolic profiling.

### Seven NMR Spectrometers available at HWB-NMR

#### B900

- 900 MHz Oxford Instruments magnet
- 4-channel Bruker AVANCE III HD console
- Probes: TCI 5mm z-PFG cryogenic probe with enhanced <sup>13</sup>C, <sup>15</sup>N, <sup>1</sup>H, <sup>2</sup>H sensitivity (2013); TXI 5mm z-PFG probe (2013)
- Room: G23
- Phone: +44 (0)121 414 8363

#### Gildor

- 800 MHz Oxford Instruments magnet
- 4-channel Varian INOVA console
- HCN 5mm z-PFG cryogenic probe with enhanced <sup>13</sup>C and <sup>1</sup>H sensitivity (2006)
- Room: G24
- Phone: +44 (0)121 414 8364

#### B600 (1)

- 600 MHz ultra shield plus Bruker magnet
- 4-channel Bruker Avance III
- SampleJet autosampler
- Probes: TCI 1.7mm z-PFG cryogenic probe (2009); QNP 5mm cryogenic z-PFG probe (2009); TCI 5mm z-PFG cryogenic probe (2009), shared with B600 (2)
- Room: G14
- Phone: +44 (0)121 414 8365

#### B600 (2)

- 600 MHz actively shielded Oxford Instruments magnet
- 4-channel Bruker Avance III
- SampleJet autosampler
- Probes: TCI 1.7mm z-PFG cryogenic probe (2014); TXO 5mm cryogenic z-PFG probe with enhanced <sup>13</sup>C, <sup>15</sup>N, <sup>1</sup>H, <sup>2</sup>H sensitivity (due Summer 2014); TCI 5mm z-PFG cryogenic probe (2009), shared with B600 (1)
- Room: G14
- Phone: +44 (0)121 414 8365

#### DD600

- 600 MHz Oxford Instruments magnet
- 3-channel Varian Direct Drive
- Probes: HCN 5mm z-PFG probe (2005); HCN 5mm z-PFG cryogenic probe with enhanced <sup>13</sup>C and <sup>1</sup>H sensitivity (2007)
- Room: G14
- Phone: +44 (0)121 414 8365

#### Gloin

- 500 MHz Oxford Instruments magnet
- 3-channel Bruker Avance II
- BACS60 autosampler
- Probes include: HCN 5mm z-PFG TBI probe (1994); HCD hr-MAS z-PFG probe (2010) with sample changer.
- Room: G14
- Phone: +44 (0)121 414 8365

#### Galadriel

- 500 MHz actively shielded Oxford Instruments magnet
- 3-channel Bruker Avance III with 2 receivers

- Probes: HCN 5mm z-PFG probe (2005); TBO 5mm z-PFG probe (2011) with dedicated 31P coil for 13C-31P correlation spectroscopy
- Room: G14
- Phone: +44 (0)121 414 8365

Galadriel is attached to OIMBL's Hypersense™ system for dynamic nuclear polarization experiments.

The magnet names are derived from books by J.R.R. Tolkien, who lived in Birmingham from 1895 to 1911, staying in the nearby neighbourhoods of Edgbaston, Moseley, Sarehole and King's Heath.

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