

# RESO<sup>N</sup>8

NMR  
Group



Ultra High Field NMR 950MHz @ Leeds

Protein Dynamics

High-throughput @ Liverpool

Metabolomics

Kinetics

Biomolecular Structure

Solid State NMR @ Lancaster

High Pressure NMR @ Sheffield

Ligand Screening

Drug Discovery

Teaching and Training

Newcastle  
Durham

Lancaster

York  
Leeds

Manchester  
Liverpool  
Sheffield

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The ResoN8 NMR Group comprises eight high-field (>700 MHz) NMR facilities at universities across the North of England. We cooperate with each other to enable:

- joint training
- sharing equipment
- sharing expertise
- promoting best practice

These facilities specialise in NMR for biology and biochemistry.



University	Primary use	<sup>1</sup> H field strength (MHz)	Software	Probes	Peripherals
Durham	Chemistry/Biochemistry	700 (all Varian) 600 500 widebore	VnmrJ 4.2 VnmrJ 4.2 Vnmr6.1c	OneNMR, AutoX OneNMR, HFX Switchable, HX, HR-MAS	HR-MAS spin controller
Lancaster	Chemistry/Biochemistry	300 (all bruker) 400 400 widebore 700 widebore	Fourier Avance III Avance III HD Avance III HD	5mm BBO 5mm DUL and various (MAS, fixed orientation etc)	SampleXpress lite (300) SampleXpress (400) HR-MAS spin controller HR-MAS spin controller
Leeds	Biology/Biochemistry	950 750 600 (all bruker)	Avance III HD Avance III HD Avance III HD	(all 5mm TCI cryoprobe)	Cold 15N preamps
Liverpool	Clinical/Biochemistry	800 700 600 (all bruker)	Avance III Avance III HD Avance III	(all 5mm TCI cryoprobe)	Chilled SampleJet (700) SampleJet (600)
Manchester	Biology/Biochemistry	800 600 500 (all bruker)	Avance III Avance I Avance III	TCI cryoprobe (all 5mm) TXI cryoprobe QCI (19F) cryoprobe	Sample case (800)
Newcastle	Chemistry/Biochemistry	300 (all bruker) 400 500 700	Avance III Avance II Avance III HD Avance III HD	BBFO BBO BBO, TBI, 10mm low freq BBO TCI, BBO	
Sheffield	Biology/Biochemistry	800 600 500 (all bruker)	Avance I Avance DRX Avance DRX	TXI cryoprobe TXI cryoprobe TXI, BBO, BBI	High pressure unit for 800 shared with Manchester
York	Chemistry/Biochemistry	700 (bruker)	Avance II	TXI,BBO,BBI	