



UNIVERSITY OF LEEDS

BHRC BIOMEDICAL HEALTH RESEARCH CENTRE

Promoting excellence in Translational Research across Leeds

Medicinal Chemistry and Chemical Biology Technology Group

Established to provide researchers at Leeds with access to world class supporting technologies the Medicinal Chemistry and Chemical Biology Technology Group provides a comprehensive and integrated medicinal chemistry, high-throughput screening and molecular modeling capability.

Small molecules that can selectively interfere and moderate biological processes are a cornerstone of modern approaches to medicine. The Medicinal Chemistry and Chemical Biology Technology Group (MCCB) has been developed to support researchers in identifying and optimising targeted small molecules as key modulators of specific biological functions.

We have experience in managing drug discovery projects in both academia and industry and have worked extensively on a wide variety of biological targets within a number of therapeutic areas. The group has development capabilities spanning the pre-clinical drug discovery process from hit identification right through to generation of an optimised pre-clinical candidate. We also have experience of facilitating the understanding of biological processes through the identification and optimisation of chemical probes to better understand the clinical relevance of biological targets.



We provide support for:

Medicinal chemistry

- Hit identification
- Hit-to-lead

Chemical Biology

- Chemical diagnostics and probes
- Imaging agents
- Affinity chromatography

Computational chemistry and virtual drug design

- Ligand- and structure-based design
- Virtual screening
- De novo design
- Physicochemical and ADME property prediction
- Novel protein-protein inhibitor virtual libraries

High-throughput screening

- 25k member diverse lead-like library, including novel scaffolds based on diversity orientated synthesis
- Assay transfer
- Liquid handling robotics
- Data gathering and analysis

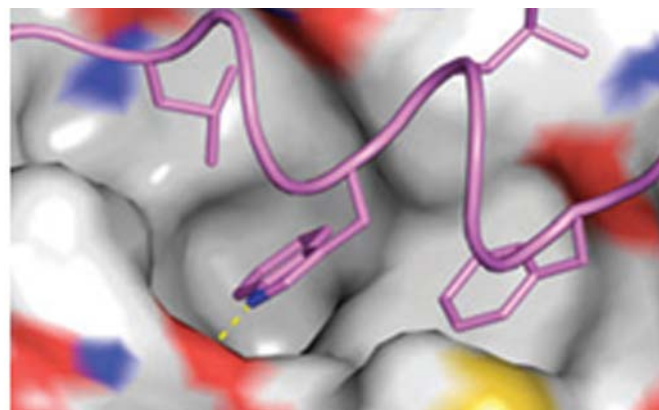
Targeted capabilities

- Modulators of protein-protein interactions

Collaborative engagement

We provide support for collaborative proposals through

- Resources for pilot projects, including direct support for the collaborator
- Expert advice and support for the development of grant application proposals
- Co-Investigator or researcher input into external grant activity



Contact us

For further information, please contact Dr Richard Foster

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Or visit our website at
www.bhrc.ac.uk