

# Manchester Chemical Biology Network (MCBN)

 [consortiapedia.fastercures.org/consortia/mcbtn/](http://consortiapedia.fastercures.org/consortia/mcbtn/)

## Research Areas



Basic Research



Data-Sharing Enabler

## At a Glance

- Status: **Completed Consortium**
- Year Launched: **2011**
- Initiating Organization: **University of Manchester**
- Initiator Type: **Academia**
- Location: **Europe**

## Abstract

---

The Manchester Chemical Biology Network (MCBN) provides a unique cross-disciplinary forum for uniting scientists from across chemical, biological, and medical science with user organizations.

## Mission

---

This collaborative network focuses on the following areas:

- Computational and chemical tools
- Chemical systems biology
- Target elucidation and modulation
- Biopharmaceuticals and nanomedicine

## Impact/Accomplishment

---

The MCBN network has funded a number of small projects and opportunities to increase collaborations in the field of chemical biology. Funded projects include:

Andrew Doig, Ewan Blanch (UoM), and Lorna Kettle (Intertek)  
Development of protocols for protein structure analysis from IR spectra

Michelle Webb (UoM) and Ian Taylor (Mill Hill)  
Understanding the mechanistic detail of triphosphohydrolase activity of SAMH1

Elena Bichenkova, Richard Bryce (UoM), Alex Breeze, and Andrew Thomas (AZ)  
Development of selective, cell-permeable inhibitors of protein tyrosine

Elena Bichenkova (UoM), John Bremner, and Catherine McKeen (LinkTech)  
Exciplex-based nanoparticles for potential biomedical and clinical applications

Jason Micklefield (UoM) and Barry Wilkinson (Biotica)  
Alkyltransferases for selective alkylation of rapalogs

Alexander Golovanov (UoM) — collaborative meeting  
Complex formulation of biopharmaceuticals

Ben Sattelle, Andrew Almond (UoM), Martin Packer (AZ), and Andy Grant (AZ)  
Priming the use of GPU-accelerated equilibrium simulations in drug discovery

John Helliwell (UoM), McKenzie, Chayen and Garzoni (Imperial College, P-Cube EMBL) Research visit  
Heparanase expression in insect cells, purification and crystallization

Steve Prince and Ewan Blanch (UoM)  
Mapping vibration modes in the Gly-Tyr-Gly peptide

Lydia Taberner, Andrew Doig (UoM), and Farid Khan (Lumophore Bio-Tech)  
New strategies to cure tuberculosis

Richard Henschman (UoM) and Richard Law (Evotec Drug discovery) Research visit  
Determination of water's contribution to protein-ligand binding

Richard Bryce (UoM, Chem) Conference funds: Computational Chemical Biology  
Probing biology with in silico tools: Thursday, 13th September 2012 in the MIB

Roger Whitehead (Chem) and Viki Allan (FLS)

Research project on “The synthesis and biological assessment of inhibitors of dynein, a “molecular motor” responsible for the intra-cellular transport of a variety of “cargoes”

## Links/Social Media Feed

---

Homepage

<http://www.lab.ls.manchester.ac.uk/mcbn/#focus>

## Sponsors & Partners

---

AstraZeneca

Biotica

GlaxoSmithKline

Imagen Biotech

Manchester Biomedical Research Centre

Manchester Institute of Biotechnology

Morvus

Oxyrane

Peakdale Molecular

Pfizer

Senexis

Syngenta

University of Manchester

---

Updated: **04/08/2016**