

## Molecular Synthesis and Catalysis

This unit includes researchers engaged in the following fields: Asymmetric synthesis; carbohydrate chemistry; cascade reactions; catalysis discovery; catalyst design; functional molecules; lipids; molecular design and diversity; natural products; organic reaction mechanisms; organocatalysis; organometallic chemistry; peptides; reactive intermediates; reaction design; sustainable chemistry; synthetic organic chemistry, transition-metal mediated reactions.

Internationally leading research is supported by access to superb analytical facilities and instrumentation. Members of the theme have strong links and collaborations across the University: especially with the School of Biosciences, the Department of Chemical Engineering and the Medical School.

### Research group leaders

- [Dr Liam Cox \(/staff/profiles/chemistry/cox-liam.aspx\)](/staff/profiles/chemistry/cox-liam.aspx)
- [Dr Paul Davies \(/staff/profiles/chemistry/davies-paul.aspx\)](/staff/profiles/chemistry/davies-paul.aspx)
- [Dr John S. Fossey \(/staff/profiles/chemistry/fossey-john.aspx\)](/staff/profiles/chemistry/fossey-john.aspx)
- [Dr Richard Grainger \(/staff/profiles/chemistry/grainger-richard.aspx\)](/staff/profiles/chemistry/grainger-richard.aspx)
- [Professor Nigel Simpkins \(/staff/profiles/chemistry/simpkins-nigel.aspx\)](/staff/profiles/chemistry/simpkins-nigel.aspx)