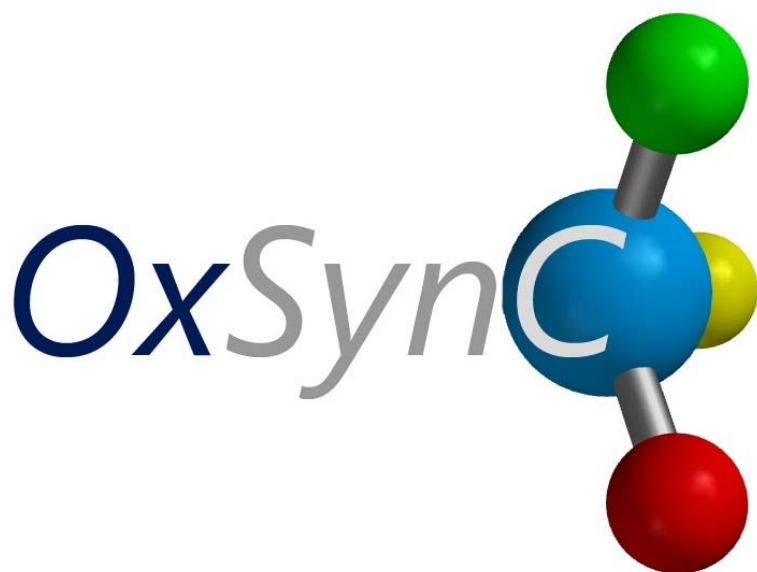


Oxford Synthesis Connections



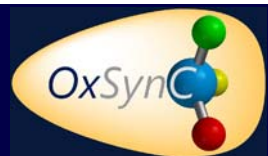
A University-wide resource based in the Department of Chemistry



*Connecting Synthetic Chemistry
with Biology and Medicine
(and beyond)*

John Fell Fund
Bridging the Gaps

Weatherall Institute of Molecular Medicine
30th April 2012



People behind OxSynC



Management team



*Simon Aldridge
(Inorganic)*



*Tim Donohoe
(Organic)*



*David Hodgson
(Organic)*



*Jeremy Robertson
(Organic)*



*Angela Russell
(Organic & Pharma-
cology)*

Other OxSynC members

Chemical Biology

*Stuart Conway
Ben Davis
Chris Schofield*

Inorganic Chemistry

*Paul Beer
Jason Davis
Stephen Faulkner
Mike Hayward
Philip Mountford
Dermot O'Hare*

Organic Chemistry

*Ed Anderson
Harry Anderson
Jon Burton
Darren Dixon
Stephen Fletcher
Veronique Gouverneur
Mark Moloney
Mike Willis*

- >300 post docs, graduate and Part II students*
- whole spectrum of reaction types and molecule classes*

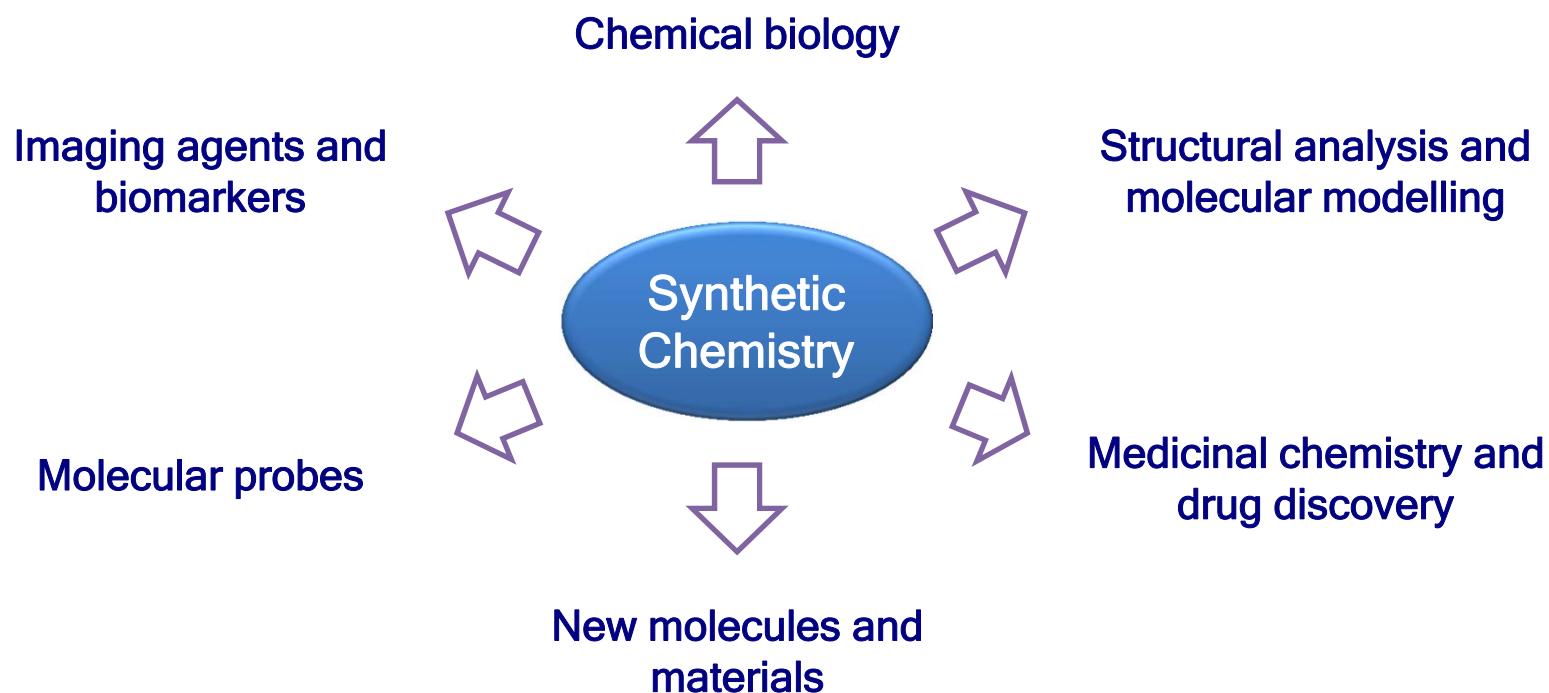
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What is OxSynC?



OxSynC provides a single point of contact to facilitate research interactions involving synthetic chemistry across the University



oxsync.chem.ox.ac.uk



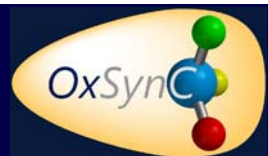
Aims



- *Make synthetic chemistry accessible*
- *Find and build new fruitful connections*
- *Generate collaborative projects*
- *Stimulate new ideas both externally and within Chemistry*
- *Diversify into new research areas*
- *Develop otherwise inaccessible research opportunities*

- *Strengthen interdisciplinarity within the University*
- *Improve opportunities and chances of success for funding*
- *Generate new IP: patents, license deals, spin-out companies*

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An example – TΔS



- *A group from the Department of Physiology, Anatomy and Genetics needed to characterise a compound*
- *The compound turned out to be not what had been assumed*
- *Funding was then obtained to employ a post doc for further investigations*
- *Large scale preparation enabled an in-depth study that led to 3 patents and 3 publications*
- *This gave impetus to TΔS which was spun out from this research*

The screenshot shows the TΔS website homepage. At the top left is the TΔS logo. To its right is a navigation menu with links for Home, About Us, News, The Technology, Management Team, and Contact. Below the navigation is a 'Welcome' section with the following text:

Welcome to the TΔS web site. We are a new company bringing science to nutrition through the development of nutraceuticals with the goal to improve quality of human life.

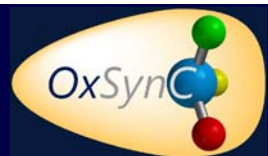
We are developing a family of innovative nutraceutical products based on the science of ketone-bodies in human nutrition. Ketone-bodies have a key role in nutrition as highly efficient 'brain and muscle food'. We have identified proprietary precursors that, for the first time, enable the amounts of ketones in our bodies to be elevated, bringing a range of benefits.

ΔG Trials of our first nutraceutical product based on the science of ketones, ΔG™, are currently taking place.

We hope that this site will allow you to track the development of TΔS.

On the right side of the page is a photograph of a rowing team in a boat on blue water. At the bottom of the page is a footer with contact information: Email: info@tdeltas.com | Telephone: +44 (0) 1865 282248 | Web: www.tdeltas.com





How to get in contact – currently



Research Guides

[Home](#) [Site Map](#) [Search](#) [Sign In](#)

Research Guides [Staff by Section](#) [Research Themes](#)

DEPARTMENT OF CHEMISTRY



> Academic Chemistry Research Staff at Oxford

Please follow the links to the individual members of academic staff world wide web pages. Each page will contain a recent summary of their current research interests and then links to their own further research information.

> Alphabetical Listing

Chairman of Chemistry [Professor Tim Softley](#)

A <ul style="list-style-type: none">Dr Dirk AartsDr Rob AdlingtonProfessor Simon AldridgeDr Ed AndersonProfessor Harry AndersonProfessor Fraser Armstrong F.R.S.	D <ul style="list-style-type: none">Waynflete Professor of Chemistry:<ul style="list-style-type: none">Professor Steve DaviesProfessor Ben DavisDr Jason DavisProfessor Darren DixonDr Carmen DomeneProfessor Tim DonohoeDr Jonathan DoveDr Roel Dullens	H <ul style="list-style-type: none">Professor Andrew Hamilton F.R.S. (Vice-Chancellor of Oxford University)Professor Gus HancockDr Karl HarrisonDr Mike HaywardProfessor David HodgsonProfessor Peter HoreProfessor Brian Howard	R <ul style="list-style-type: none">Dr Grant RitchieDr Jeremy RobertsonProfessor Carl Robinson F.R.S. (Royal Society Research Professor & Dr Lee's Professor of Chemistry)Dr Anela Russell
B <ul style="list-style-type: none">Dr William BarfordProfessor Peter BattleProfessor Haagen Bawley F.R.S. (Professor of Chemical Biology)Professor Paul BeerDr Justin BeneshProfessor Mark Broward (Head of Physical & Theoretical Chemistry)Dr Jonathan Burton	E <ul style="list-style-type: none">Professor Peter Edwards F.R.S. (Professor of Inorganic Chemistry, Head of Inorganic Chemistry)Professor Russ Egdell	K <ul style="list-style-type: none">Dr Philipp Kukura	S <ul style="list-style-type: none">Dr Asel SaibbaevaProfessor Chris Schofield (Head of Organic Chemistry)Dr Lorna SmithDr Martin SmithDr Lavina SpoeckProfessor Tim Softley (Chairman of Chemistry)
C <ul style="list-style-type: none">Dr Kirsten ChristensenDr Tim ClaridgeDr Simon ClarkeProfessor David Clary F.R.S.Professor Richard Compton (Aldrichian Praelector in Chemistry)Dr Stuart ConwayDr Richard Cooper (Head of Chemical Crystallography)	F <ul style="list-style-type: none">Professor Stephen FaulknerDr Emily FlashmanProfessor George FleetDr Stephen FletcherProfessor John Foord	M <ul style="list-style-type: none">Dr Stuart MackenzieProfessor David Manolopoulos F.R.S.Dr James McCullaghProfessor John McGradyProfessor Mark MoloneyProfessor Philip Mountford (Acting Head of Inorganic Chemistry)	T <ul style="list-style-type: none">Dr Amber ThompsonDr Chris TimmelProfessor Edman Tsang
	G <ul style="list-style-type: none">Dr Jose GoicoecheaProfessor Veronique GouverneurDr Andrew GoodwinDr Nicholas Green	L <ul style="list-style-type: none">Dr Victor LeeProfessor David Logan (Coulson Professor of Theoretical Chemistry)	V <ul style="list-style-type: none">Dr Claire VallanceDr Kylie Vincent
		O <ul style="list-style-type: none">Professor Dermot O'Hare	W <ul style="list-style-type: none">Dr Mark WallaceDr David Watkin (Retiring Head of Chemical Crystallography)Professor Andrew WellerDr Mike WillisDr Mark WilsonDr Leut Wong
		P <ul style="list-style-type: none">Dr Rob Paton	

- *The department has ca. 80 academic groups spanning a wide range of chemical research*
- *Finding the right people who work in the right area can be difficult*
- *Currently, there is no single contact for putting people in touch*
- *OxSynC sets out to address this*

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How to get in contact - OxSynC



OxSynC

UNIVERSITY OF OXFORD

Oxford Synthesis Connections

Your research and synthetic chemistry

Synthetic chemistry is a diverse science with applications in disciplines ranging from materials through to biology and medicine. OxSynC, based in the [Department of Chemistry](#) - University of Oxford, has been established as a new free resource that provides a single point of contact for researchers to facilitate such interactions within the University and potentially beyond.

OxSynC is managed by group of synthetic chemists who are specialists at assembling and characterising organic and inorganic molecules, tailored to order for many applications. At present the group is supported by [20 world-leading synthesis researchers](#) whose combined knowledge covers the whole spectrum of synthetic chemistry.

Our Aims

- Making chemistry accessible
- Finding and building new fruitful connections
- Strengthening interdisciplinarity within the University
- Improving opportunities and chances of success for funding
- Generating new IP: patents, license deals, spin-out companies

If you have a research problem that a synthetic chemist may be able to help you with, then please [contact us](#).

Latest News

On 30th April, the OxSynC team will be giving an [introductory presentation](#) at the Weatherall Institute of Molecular Medicine.

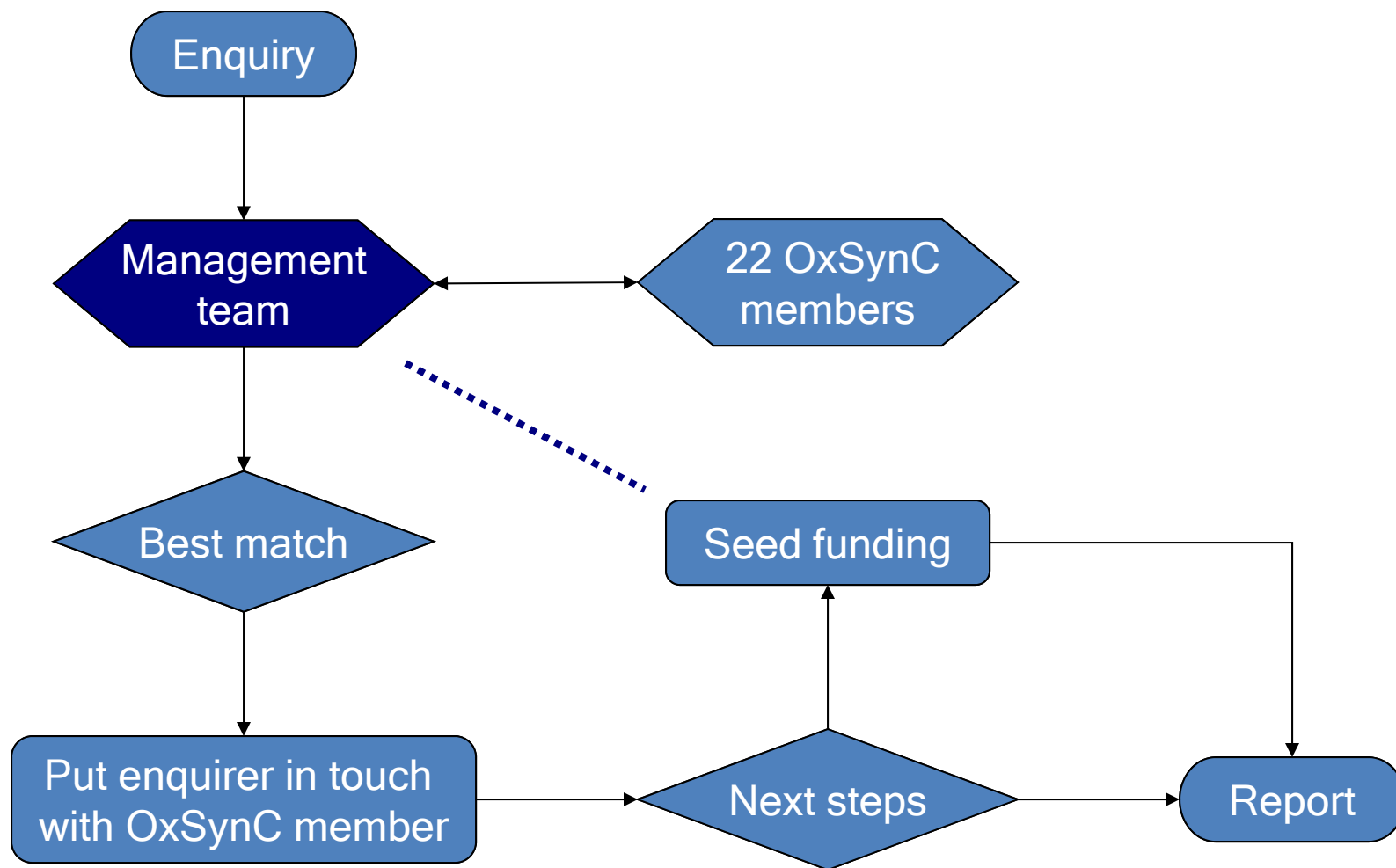
Site Map | Printable View | © 2008 - 2012 Department of Chemistry - University of Oxford
Powered by [mojoPortal](#) | HTML 5 | CSS | Based on a design by [stylehout](#), edit Karl Harrison

- *Submit query (email/contact form)*
- *OxSynC decides who is the best person to take this further*
- *Inquirer and chemist meet to decide next steps*
- *OxSynC has some funding for validating/seeding projects*
- *We will do what we can*

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The process



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Can OxSynC help ?



- **Analysis** *What is my compound? Can I characterise it? How can I determine its purity?*
- **Technical help** *I've tried some chemistry but it's not working; what could be going wrong?*
- **Libraries** *I'm interested in testing a range of analogues of this inhibitor but who has experience in their synthesis?*
- **Tagging** *How can I tag this molecule for imaging/cell targeting/other application?*
- **Probes** *I need a probe compound to test a hypothesis but it's not commercially available; how can I obtain it?*
- **Enzyme inhibition, drug discovery and delivery**
Can I find an inhibitor of my enzyme or an active compound to try my drug delivery system?

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Expertise keywords



Chemical Biology

Ben Davis - biomolecular synthesis & functionalisation
Chris Schofield - enzyme inhibitors & medicinal chemistry
Stuart Conway - inositol chemistry, biological photochemistry

Chemistry & Pharmacology

Angela Russell - chemical libraries, cancer medicinal chemistry

Inorganic Chemistry

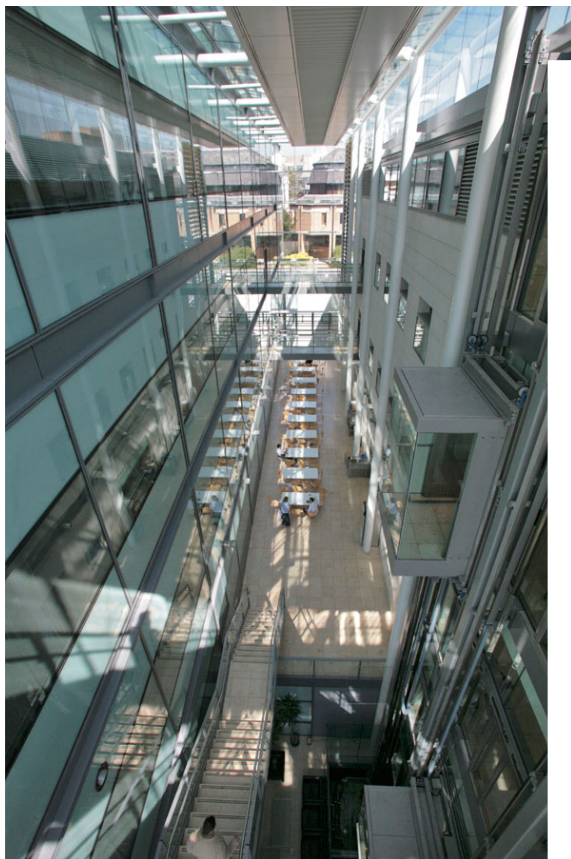
Simon Aldridge - transition metals, main group chemistry
Paul Beer - supramolecular synthesis, recognition & sensing
Jason Davis - nanoparticle contrast agents
Stephen Faulkner - d- and f- element complexes & bioconjugates
Mike Hayward - complex solids, transition metal oxides
Dermot O'Hare - molecular complexes & solids
Philip Mountford - complexes of early transition metals & lanthanides

Organic Chemistry

Harry Anderson - advanced molecular materials
Ed Anderson - natural products, heterocycles, organosilicon
Jon Burton - natural products, new methods
Darren Dixon - natural products, organocatalysis
Tim Donohoe - natural products, redox methods
Stephen Fletcher - molecular devices, self-assembly, catalysis
Veronique Gouverneur - fluorination, PET imaging agents
David Hodgson - natural products, new methods
Mark Moloney - natural products, chemical libraries, surface modification
Jeremy Robertson - natural products, new methods
Mike Willis - new methods, catalysis



Chemistry Research Laboratory



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oxsync@chem.ox.ac.uk