

UNIVERSITY OF

OXFORD



This course is now closed and there will be no further intakes of students. This page exists as a record of the course structure and its past students.

Doctoral Programme in Chemical Biology

The Doctoral Programme in Chemical Biology was a 4-year graduate training programme that brought together the expertise of three world-leading organisations to train outstanding students to work at the frontiers of chemical biology research. The University of Oxford was ranked 1st in the 2016 Times Higher Education World University Rankings and is one of the world's leading research universities. GSK is a world leading, global healthcare company, which develops and manufactures pharmaceutical medicines, vaccines and consumer healthcare products. The Francis Crick Institute is a biomedical discovery institute dedicated to understanding the fundamental biology underlying health and disease. GSK works closely with researchers at The Francis Crick Institute through the GSK - Crick (LinkLabs) open science collaboration to explore new avenues of medical research and drug discovery. Chemical biology is an interdisciplinary field of science in which chemical techniques, tools, and analyses are used to study and manipulate biological systems, to address questions related to small molecule drug and probe discovery, and to investigate the pharmacology of small molecules that modulate biological targets. The projects offered to students who were admitted to this programme in 2017 were all within the theme of chemical modulation of biomolecules within living cells. The programme admitted two cohorts of students in October 2017 and October 2018 supported by funding from EPSRC and BBSRC. The majority of students admitted to the programme had an academic background in chemistry or in related fields. The programme was based in the University of Oxford's Doctoral Training Centre (DTC) (www.dtc.ox.ac.uk), which houses five interdisciplinary graduate programmes focused on research at the interface between physical and life sciences, providing extensive opportunities to interact with students from a wide range of academic backgrounds. The Training Programme During their first term students undertook an intensive interdisciplinary training programme which included training in programming and scientific computing, drug discovery and chemical biology. During this term and throughout their studies students participated in a comprehensive career development programme, which included specific training in communication and business skills, entrepreneurship skills and the commercialisation of research. Commencing in January of their first-year students will undertook two 12-week rotation projects with at least two of the partner organisations (Oxford, GSK, Crick), before identifying their main DPhil research topic. They submitted a written report on each of these rotation projects which was assessed by an expert from one of the three partner organisations. For many students these rotation projects were complementary projects that provided the foundation for a collaborative DPhil project involving both project supervisors. During their DPhil project all students had an academic supervisor at the University of Oxford and a supervisor/mentor at GSK. Some students also had a supervisor at The Francis Crick Institute. Students selected rotation projects from a portfolio of projects proposed by researchers within the partnership. These rotations provided students with the opportunity to interact closely with both their academic and industrial/institute supervisors and to gain direct experience of the working environment and facilities available in the partner

organisations. At the end of their first-year students wrote and submitted for approval a research proposal describing their proposed DPhil project, written in collaboration with their academic, industrial and institute supervisor(s). They then undertook 3 years of full-time doctoral research. Industrial Placement All students undertook a placement of no less than 12 weeks with GSK. In some cases, this placement was undertaken as one of the two rotation projects undertaken in the first year, in other cases this occurred during years 2-3. Funding Research council studentship funding administered by the University of Oxford provided a standard UK stipend (initially set at £14,553 per year) and university fees for eligible students for 4-years. This will be increased by contributions from GSK, and where relevant, the Francis Crick Institute to a minimum of £17,553 per year. Both GSK and the Francis Crick Institute provided additional funding towards cost of accommodation or travel from Oxford for students undertaking rotations with these organisations during their first year. Funding from The Francis Crick Institute for first year rotation students was £1677. The Francis Crick Institute subsequently topped up the combined Oxford and GSK stipend to the Crick level (£22K) for up to 18 months for students who carried out a jointly supervised PhD project with a Crick Group Leader as one of the supervisors.

LinkedIn profile of Oxford-GSK-Crick Chemical Biology CDT: https://www.linkedin.com/in/oxford-gsk-crick-chemical-biology-cdt-0a812b247/

Oxford-GSK-Crick Chemical Biology DPhil - 2017 Cohort

Students:







Stephanie Lovell-Read

Raphael Reinbold

Grace Roper



Adam Thomas



Tobias John

Lead & Additional Supervisors:







Chris Schofield



Luiz Carvalho



Stuart Conway

Industrial Supervisors:



Jacob Bush



Jo Redmond



Vipul Patel



Pete Craggs

Oxford-GSK-Crick Chemical Biology DPhil - 2018 Cohort

Students:



Darius McArdle



Karen Heathcote



Katrina Andrews



Marc Moesser

Lead Supervisors:



Stuart Conway



Emily Flashman



Garrett Morris

Additional Supervisors:







Peter Ratcliffe

Ester Hammond

Chris Schofield

Industrial Supervisors:



Jacob Bush



David Hirst



Lewis Brayshaw



Andrew Baxter

Award	Grace Roper	2017	Travel Award to RSC BMCS conference	Authors	Event / Journal information	Year
A 1		2017	Commendation - Presentation of flash talk -		OC & CB Grad Students Symposium,	2021
Award	Raphael	2017	Lilly prize for Excellence in Organic Chemistry		Oxford	2010
Award	Reinbold Stephanie	2017	Research (2018/2019) Lilly Prize for Excellence in Organic Chemistry			2019
Award	Lovell-Read	2017	Research (2019)			2019
Award	Adam Thomas	2017	Runner up poster award for RSC CBBG confeerence	Adam M. Thomas, Jacob T. Bush, and Stuart J. Conway	RSC CBBG Forum	2020
Award	Tobias John	2017	Talk Prize - Studies on the Reaction of Formaldehyde with N-Termini	Tobias John	OC & CB Grad Students Symposium, Oxford	2021
Conference	Tobias John	2017	-	-	Chemical Biology 2018 EMBO	2018
attendance					Workshop	
Conference attendance	Tobias John	2017	Studies on the Reactions of Formaldehyde with Protein N-termini	Tobias John, Elisabete Pires, Svenja Hester, John Walsby-Tickle, Felix Dingler, Christopher Millington, Richard Hopkinson*, Christopher Schofield* *Corresponding Authors	Biological and Medicinal Chemistry Symposium for Postgraduates	2021
Conference Presentation	Tobias John	2017	Studies on the Reactions of Formaldehyde with N- Termini	Tobias John	RSC, CBBG Conference	2021
Conference	2017 cohort	2017	ChemBiOx 2019	Grace Roper, Raphael Reinbold, Tobias John,		2019
organising	Alama		A CDISDD Mathed for Denid In call Validation of	Stephanie Lovell-Read, Adam Thomas	144h DMCS Diala sign and Madising 1	
presentation	Thomas	2017	Epigenetic Targets	Conway	Chemistry Postgraduate Symposium	2020
Poster,		2017	Structure Activity Relationship Studies on a Cyclic	Grace Roper, Bhaskar Bhushan, Joanna Bonnici, Anthony Tumber, Richard	3rd RSC BMCS Medicinal Chemistry	2010
conference	Grace Koper	2017	Structure Activity Relationship Studies on a Cyclic	Hopkinson, Tetsuya Kojima, Hiroaki Suga, Akane Kawamura Grace Roper, Bhaskar Bhushan, Joanna Bonnici, Anthony Tumber, Richard	Symposium on Macrocycles	2019
Poster, conference	Grace Roper	2017	Peptide Probe Selective for Histone Demethylases KDM4A-C	Hopkinson, Tetsuya Kojima, Hiroaki Suga, Akane Kawamura Grace Roper1,2, Albert Isidro Llobet3, Akane	RSC Chemical Biology and Bioorganic Group Postgraduate Symposium 2019	2019
Poster, conference	Grace Roper	2017	Development of macrocyclic peptides as affinity probes	Department of Chemistry; 2 Newcastle university, School of Natural and environmental Sciences, Chemistry; 3 Medicines Research Centre, GlaxoSmithKline	XV RSC BMCS Postgraduate Symposium	2021
Poster, conference	Raphael Reinbold	2017	Investigation of a fluorescence-based formaldehyde quantification method reveals a lack of specificity	Raphael Reinbold, Tobias John, Paolo Spingardi, Akane Kawamura,, Christopher J. Schofield, and Richard J. Hopkinson	RSC Chemical Biology and Bioorganic Group Postgraduate Symposium 2019	2019
Poster, conference	Raphael Reinbold	2017	Studies on Mycobacterial Isocitrate Dehydrogenases	Raphael Reinbold, Martine I. Abboud, Acely Garza-Garcia, Luiz Pedro S. de Carvalho, Christopher J. Schofield	Chemical Biology and Bio-Organic Group (CBBG) Forum	2020
Poster, conference	Tobias John	2017	H2B N-Terminal Proline Scavenges Formaldehyde	Tobias John, Elisabete Pires, Christopher J. Schofield, and Richard J. Hopkinson	RSC CBBG Forum	2020
Poster,	Adam Thomas	2017	A CRISPR Method For Rapid In-Cell Validation	Adam M. Thomas, Jacob T. Bush, and Stuart	RSC BMC Postgraduate symposium	2019
Poster,	Adam	2017	A CRISPR Method For Rapid In-Cell Validation	Adam M. Thomas, Jacob T. Bush, and Stuart	RSC CBBG Forum	2020
Poster,	Adam	2017	A CRISPR Method for Rapid In-cell Validation of	Adam M. Thomas, Jacob T. Bush & Stuart J.	RSC Organic Poster Symposium	2020
conference Poster,	Thomas Karen	2017	Epigenetic Targets Target Incorporation of Non-Canonical Amino	Conway Karen Heathcote, Oliver Coleman, Cassandra		2020
conference	Heathcote	2018	Acids into Histones and Cyclic Peptides	Kennedy, Akane Kawamura	OxCheBio 2019, Oxford	2019
Poster,	Karen Heathcote	2018	Investigating the Role of Cysteamine Dioxygenase (ADO) in Oxygen Sensing	Masson, Jacob Bush, Peter Ratcliffe, Emily	RSC CBBG Postgraduate Symposium	2020
Public		001-		Flashman Kawaman Ca	Owford Only 1971	2010
engagement	Grace Roper	2017	Epigenetics: how do identical twins differ?	Kawamura Group	Oxford Science + Ideas festival	2019
engagement	Reinbold	2017	roadshow		Summer Roadshow	2019
Public engagement	Tobias John	2017	Code Club (https://codeclub.org/en/)		Teaching school children how to code	2018/2019
Public	Stephanie	2017	How playing 'spot the difference' can help us kill		Westminster Academy, STEM Week	2020
Public	Stephanie	2017	Roots to Seeds Exhibition, Weston Library -	Ν/Δ	Roots to Seeds Exhibition, Weston	2021
engagement Public	Lovell-Read Adam	2017	Photography Credit		Library, Oxford	2021
engagement Public	Thomas	2017	CRUK Open Doors (Oxford Chemistry)			2019
engagement	Thomas	2017	UNIQ Summer School	N/A	UNIQ Summer School	2020
Public engagement	Katrina Andrews	2018	CRUK Open Doors (Oxford Chemistry)			2019
Public engagement	Darius McArdle	2018	CRUK Open Doors (Oxford Chemistry)			2019
Publication (commentary)	Stephanie Lovell-Read	2017	Salmonella, meet mycobacteria	SR Lovell-Read, LPS de Carvalho	J Exp Med (2019) Apr 1: 216(4); 721-	2019
				Brian Josephson, Charlie Fehl, Patrick G Isenegger, Simon Nadal, Tom H Wright,		
Publications (article)	Grace Roper	2017	Light-driven post-translational installation of reactive protein side chains	Adeline W J Poh, Ben J Bower, Andrew M Giltrap, Lifu Chen, Christopher Batchelor- McAuley, Grace Roper, Oluwatobi Arisa, Jeroen B I Sap, Akane Kawamura, Andrew J Baldwin, Shabaz Mohammed, Richard G Compton, Veronique Gouverneur, Benjamin G Davis	https://www.nature.com/articles/s4158 6-020-2733-7	2020
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