

Staff within this research theme

Collectively, members of the Molecular Cell Biology and Signalling (MCBS) theme possess expertise in a broad spectrum of techniques.

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Senior Lecturer in RNA biology
Group Leader

I am a Lecturer in RNA biology. My group's research focuses on understanding the mechanisms that connect pre-mRNA processing with translation and Nonsense Mediated mRNA Decay (NMD). A second interest of the laboratory is understanding the functions of ribosomes and ribosomal proteins within the nucleus.

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Professor of Experimental Haematological Oncology

Professor Chris Bunce Directs a translational research group dedicated to the development of novel therapies for leukaemias and lymphomas. A particular focus is the exploitation of drug redeployment strategies using off- patent drugs to provide affordable therapies that can be exploited by all including the worlds poorer nations.

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Senior Lecturer in Plant Molecular Genetics

My research interest is in understanding development and evolution, particularly in plants. I run a small research group who work primarily with moss, *Arabidopsis*, seaweeds and microalgae; we also grow liverworts, spikemoss and grasses. We use molecular genetics, cell biology, developmental biology and 'omics approaches to understand gene and protein function in these systems.

I was a [Royal ...](https://royalsociety.org/grants/case-studies/juliet-coates/) (<https://royalsociety.org/grants/case-studies/juliet-coates/>)

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Professor of Mass Spectrometry

Professor Helen J. Cooper is an expert in the gas-phase ion chemistry of peptides and proteins. She is a world-leader in the field of electron capture dissociation mass spectrometry and is responsible for establishing the University of Birmingham as a centre of excellence in mass spectrometry research. Professor Cooper has published extensively in peer-reviewed journals and serves on a ...

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Lecturer in Molecular Cell Biology and Signalling

Dr Cunningham is an expert in the use of quantitative proteomics techniques to characterise regulatory phosphorylation events and protein-protein interactions that occur during growth factor induced cell signalling.

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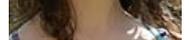
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Birmingham Fellow

 (</university/colleges/les/research-gallery/lindsey-leach.aspx>) Dr Leach joined the University of Birmingham as a Birmingham Fellow in 2012 and is based in the Plant Genetics and Cell Biology group in the School of Biosciences. Her work involves using statistical genetics and bioinformatic approaches to dissecting the genetic architecture of quantitative trait variation.

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Birmingham Fellow
Principal Investigator

Dr Yun Fan's research interest centers on understanding how cell death, cell proliferation and cell differentiation are coordinated to maintain tissue homeostasis. This has important implications for cancer development and tissue regeneration. As one of our Birmingham Fellows recruited worldwide, he joined us and established his laboratory at Birmingham in November ...

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Reader in Developmental Neurobiology



[\(/university/colleges/les/research-gallery/alicia-hidalgo.aspx\)](/university/colleges/les/research-gallery/alicia-hidalgo.aspx) Our lab aims to understand how the nervous system – including the brain – is formed and works.

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Senior Lecturer in Molecular Cell Biology
Director of Graduate Research, College of Life and Environmental Sciences

Dr Hotchin is a cell biologist with an interest in normal epithelial cell function and in understanding the processes that contribute to diseases such as cancer. He has published a number of high impact papers on the role of small GTP-binding proteins in control of epithelial cell function. In addition to his research and teaching activities, Dr Hotchin is also currently Director of Graduate ...

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Research Fellow

Dr Aditi Kanhere's research focuses on understanding how non-coding RNA, transcription factors and epigenetic modifications regulate gene expression changes in normal and diseased conditions. Her laboratory integrates cutting-edge genomics technologies with computational methods to understand mechanisms of transcription regulation in cancer.

Kanhere lab website: ... (<https://sites.google.com/site/kanherelab/>)

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Emeritus Professor of Biochemistry
formerly Royal Society Research Professor at the University of Birmingham

Since the 1960s Bob Michell has been one of the pioneers in revealing the diverse biological functions of inositol lipids in eukaryote cells. He had major roles in establishing that receptor-controlled phospholipase C hydrolysis of PtdIns(4,5)P₂ is a signaling reaction and that PtdIns(3,5)P₂ is a regulator of intracellular trafficking processes.

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Senior Lecturer



I am the current head of Biochemistry degree programmes.

I am in the molecular and cellular biology research theme.

My research field is in calcium signalling.

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Reader

Dr Steve Publicover is an internationally-recognised expert on sperm physiology and signalling events in sperm initiated by sperm-egg interaction.

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Lecturer

My prime research interest is how the information encoded in chromosomes instructs building of the most complex organ, the brain, and allows an organism to perform elaborate tasks.

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Senior Research Fellow
MSci programme co-ordinator

Dr Mike Tomlinson has an international reputation in the two fields of platelets and cell surface biology, and has published in numerous edited books and scientific journals in these areas. He has been invited to speak at major international conferences, including Gordon Research and FASEB Summer Conferences in the United States, and organised the 4th European Conference on ...

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Chair of Biochemical Pharmacology

Professor Mark Wheatley has an international reputation for his research into the structure and function of G-protein-coupled receptors (GPCRs). He has national and international collaborations with both academia and the pharmaceutical industry.

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