

## Research activity

Here is a list of all the research activity pages:

### Generic List

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#### **Molecular Physics - Physics and Astronomy research (/research/activity/physics/quantum/molecular/index.aspx)**

Welcome to the web pages of the Molecular Physics Group. Our research is directed towards the study of the reactions of electrons and ions with neutral molecules at low energies. As well as its fundamental aspects, the research has important applications to the physics and chemistry of naturally occurring plasmas (e.g. the terrestrial atmosphere), industrial plasmas (e.g. surface etchant plasmas), and pollutant monitoring.



#### **Monogenic Diabetes Syndromes and Childhood Diabetes Translational Research Group (/research/activity/mds/domains/hormones-metabolism-reproduction/rare-endocrine-metabolic-disease/monogenic-diabetes-syndromes-and-childhood-diabete/index.aspx)**

Information on the Monogenic Diabetes Syndromes and Childhood Diabetes Translational Research Group, led by Professor Tim Barrett, School of Clinical and Experimental Medicine, College of Medical and Dental Sciences



#### **Mood Disorders Research Group (/research/activity/mds/domains/cardio-resp-neuro/neurotrauma/mood-disorders/index.aspx)**

Research page for the mood disorders research group lead by Dr Lisa Jones, Neurotrauma & Neurodegeneration, School of Clinical & Experimental Medicine, University of Birmingham.



#### **Motor Neurone Disease (/research/activity/mds/domains/cardio-resp-neuro/neurodegenerative-diseases/motor-neurone-disease/index.aspx)**

Information on the Motor Neurone Disease Group, lead by Professor Karen Morrison, Section of Neurotrauma and Neurodegeneration, School of Clinical and Experimental Medicine, The University of Birmingham



#### **MRC Centre for Immune Regulation (/research/activity/mds/centres/mrc-immune/index.aspx)**

The Birmingham MRC Centre for Immune Regulation provides a coherent focus for immunology research supported by state of the art technologies. The Centre reflects the international profile of both basic and clinical immunology within the University of Birmingham.



#### **MRC Hub for Trials Methodology (/research/activity/mds/domains/health-pop/healthcare-evaluation-and-methodology/mrc-hub-for-trials-methodology/index.aspx)**

The MRC Midland Hub for Trials Methodology Research (MHTMR) based at the University of Birmingham is one of a national network of seven hubs funded as an exciting new initiative by the Medical Research Council. The Hub's five year programme was initiated in June 2009 with Lucinda Billingham, Professor of Biostatistics in Cancer Sciences, as the Director. As a centre of excellence for trials methodology research, we provide local and national researchers undertaking trials with innovative methodology for design, conduct and analysis, thereby improving quality of trials and ultimately patient care. Methodological expertise includes quality of life evaluation for clinical and health economic assessment, discovery and evaluation of diagnostic, prognostic and predictive biomarkers, Bayesian methods for the design and analysis of trials and systematic reviews for clinical and health economic evaluation. Specialist clinical areas include cancer, haematology, chronic neurodegenerative disease, cardiovascular, primary care clinical sciences, maternity, women's health, medical devices and operations, experimental medicine and early phase clinical trials, paediatric medicine and hepatology. The programme of research is driven by the expertise of the researchers and the needs of the trials community and will benefit practitioners on a national level through dissemination, training and advice.



#### **MRG Conzen Collection - School of Geography, Earth and Environmental Sciences (/research/activity/urban-morphology/conzen-collection/index.aspx)**

Having begun his studies at the University of Berlin in the 1920s, MRG Conzen (1907-2000) came to England as an emigre in 1933 and began a career that created the Anglo-German school of urban morphology.



#### **Multimodal Integration Group (MIG) (/research/activity/psychology/mig/index.aspx)**

Homepage for the Multimodal Integration Group (MIG) at the University of Birmingham. The main goal of the Multimodal Integration Group (MIG) is to develop and apply non-invasive neuroimaging methods to questions in clinical and behavioural neuroscience.



#### **Multimodal Interaction Laboratory - HIT - Electronic, Electrical and Systems Engineering research (/research/activity/eese/ise/multimodal/index.aspx)**

The Multimodal Interaction Laboratory combines our existing research groups in Digital Systems and Vision Processing, Speech and Language Technology and parts of our research in Acoustics and Sonar.



#### **Multimodal perception research - School of Psychology (/research/activity/psychology/multimodal/index.aspx)**

This group comprises a range of projects that are concerned with the coordinated use of multiple sensory systems.



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