Research activity

Here is a list of all the research activity pages:

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Membrane Protein Structure and Function Research Group (/research/activity/mds/domains/cardio-resp-neuro/vascular-inflammation/membrane-protein-structure-and-function/index.aspx)

Information on the Membrane Protein Structure and Function Research Group, Section of Cardiovascular Sciences, School of Clinical and Experimental Medicine, College of Medical and Dental Sciences, The University of Birmingham.

Mental Health (/research/activity/mds/domains/health-pop/population-health-research-epidemiology/mental-health/index.aspx)

This group is multidisciplinary in nature, focuses mainly on intervention development and evaluation, but includes epidemiological and policy work.The mental health group has been in existence since 2001. In particular, we aim to develop and test pragmatic interventions for use in primary care, but we are also engaged in explanatory trials and translational research. We have a particular focus on the care of people with serious mental illness including the commissioning, development and evaluation of early intervention services, service users' views of care and improving primary care mental health.Current work includes:modeling a framework for how mental health, substance misuse and learning disabilities services could be commissioned by Local Authority and NHS commissioners a cochrane review of collaborative care for people with serious mental illness and cross sectional study of current care for people with serious mental illness exploring service user, carer and providers' views of services for people at the point of discharge from Early Intervention Services a trial of bespoke smoking cessation therapy for people with schizophrenia qualitative evaluations within trials of CBT for command hallucinations, computerised CBT for depression and Joint Crisis Plans to reduce compulsory treatment of people with psychosis.

Metabolomics in the Life Sciences - School of Biosciences (/research/activity/metabolomics/index.aspx)

Homepage for Metabolomics in the Life Sciences at the University of Birmingham. Metabolomics research at the University began in 2003 and focuses primarily in clinical metabolomics and environmental metabolomics, and is strongly underpinned by the development of novel bioanalytical and computational methodologies.

Metallurgy and Materials research (/research/activity/metallurgy-materials/index.aspx)

Metamaterials - Physics and astronomy research (/research/activity/physics/quantum/metamaterials/index.aspx)

A new Research Centre in the nascent area of "metamaterials" is now being formed in Physics at Birmingham.Metamaterials are materials with exotic optical properties (e.g. negative refractive indices). Proposals for the use of the materials are "invisibility cloaks" to shroud objects and lenses which can image arbitrarily small objects (unlike normal lenses which are limited to see things larger than the wavelength of light).

Meteorology and Climate - Environmental Health Sciences research - School of Geography, Earth and Environmental Sciences (/research/activity/environmental-health/areas/meteorology-climate/index.aspx)

Researchers within the area of Meteorology and Climate (part of the Environmental Health Sciences research group) have a unique international reputation for a broad range of pure and applied atmospheric research, including significant knowledge transfer to the international meteorological market place. Modeling is a particular strength of the group from small scale street canyon turbulence models (used for revealing the key mechanisms that affect urban climate and pollution level) to global circulation models (used for predicting future climate change).

Microbial Bioprocessing research group (/research/activity/chemical-engineering/bioengineering/microbial-bioprocessing/index.aspx)

We are interested in using information about the molecular microbiology and physiology of bacteria to develop bioprocesses.

Microbiology and Infection - Research in the School of Biosciences (/research/activity/microbiology-infection/index.aspx)

Microbiology and Infection at Birmingham

Microcirculation Research Group (/research/activity/mds/domains/cardio-resp-neuro/vascular-inflammation/microcirculation-research-group/index.aspx)

Information on the Microcirculation Research Group, led by Dr Neena Kalia, Section of Cardiovascular Sciences, School of Clinical and Experimental Medicine, College of Medical and Dental Sciences, The University of Birmingham

Micro-engineering and Nano-technology Research Group - Mechanical Engineering (/research/activity/mechanical-engineering/bio-micro/micro-nano/index.aspx)

Every day, engineers at Birmingham embark on futuristic explorations that are rapidly turning fantastic ideas, which would not be out of place in a science fiction story, into industrial and commercial reality. We are voyaging into the domain of the astonishingly small - the world of nanotechnology where objects are measured not in millimetres or even microns but nanometres - one thousand millionth of a metre.

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