Research activity

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Background - In Quest of New Fingerprints of exposure to Air Toxics project - Environmental health sciences research (/research/activity/environmental-health/projects/airtoxics/index.aspx)

Introduction and background to the project titled 'In Quest of New Fingerprints of exposure to Air Toxics' in the School of Geography, Earth and Environmental Sciences at the University of Birmingham.

Background to the database (/research/activity/civil-engineering/archive/short-term/floods/flowdata/background/index.aspx)

Background information on the Flow Database.

Bacterial & Viral Infections, Pathogenesis, Antibiotic Resistance & Vaccine Development (/research/activity/mds/domains/immunity-infection/virology/index.aspx)

Globally, over 20% of deaths result from an infectious disease. Research in bacteriology and virology at the University of Birmingham brings together world leading strengths in basic and clinical Science to tackle global infections. Particular strengths exist in the study of antibiotic resistance, bacterial and viral pathogenesis and persistent virus infections; all major worldwide causes of morbidity and mortality.We host a group of prominent, internationally recognised researchers investigating key aspects of infection. We work with a range of bacterial and viral pathogens and study mechanisms of pathogenesis, host-pathogen interactions, pathogen transmission and drug resistance. Our fundamental science underpins the development and application of improved therapies to combat infection.Particular strengths exist in the study of persistent virus infections, the pathogenesis of Gram negative bacteria and antibiotic resistance where we have an international reputation for our work. Viral persistence and bacterial pathogenesis involve complex host-pathogen interactions to evade innate and adaptive immune responses. We work closely with cell biologists and immunologists to study these interactions. Antibiotic resistance is a global challenge and the topic of the 2011 WHO 'World Health Day', we study the mechanisms and transmission routes of antibiotic resistance as well as developing new approaches to treat antibiotic resistant bacteria.The study of bacterial and viral infection involves significant interdisciplinary collaborations across the University and with local NHS trusts, allowing recent developments of new research into vaccines, novel antimicrobials, and the application of whole genome sequencing to evolution and epidemiology projects.

Basil 2 (/research/activity/mds/trials/bctu/trials/portfolio-v/Basil-2/index.aspx)

BASIL-2 Home Page

BC2001 Trial (/research/activity/mds/trials/crctu/trials/bc2001/index.aspx)

Index page for the BC2001 Trial page, Institute of Cancer Studies, University of Birmingham.

BCRG (Birmingham Cardio-Renal Group) (/research/activity/mds/domains/cardio-resp-neuro/clinical-integrated-cardiovascular-science/bcrg/index.aspx)

Information on the BCRG (Birmingham Cardio-Renal Group), School of Clinical and Experimental Medice, University of Birmingham.

Behavioural Medicine (/research/activity/mds/domains/health-pop/population-health-research-epidemiology/behavioural-medicine/index.aspx)

This group is multidisciplinary in nature, focuses mainly on intervention development and evaluation, but includes epidemiological and policy work.Behavioural Medicine comprises the development and integration of environmental, behavioural and biomedical knowledge relevant to health and disease, and the application of this knowledge to prevention, treatment and rehabilitation.In all of these areas, the focus of our work is on applied research. 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. Under the umbrella of behavioural medicine there are three main areas of research:1.Exercise as a treatment or intervention in chronic disease 2.Tobacco control interventions The Smoking Research Group (SRG) is a team of people working on all aspects of tobacco control, but in particular on smoking cessation and harm reduction. We are part of the UK Centre for Tobacco Control Studies (www.ukctcs.org), which is a five year program of research representing collaboration UK universities working in tobacco control. 3.Weight controlInterventions related to prevention and treatment of adults and children with obesity. This includes the childhood obesity prevention group whose main focus is on the development, implementation and evaluation of childhood obesity interventions, but includes, epidemiology of childhood obesity, behavioural and biological influences on childhood obesity, the health, psychological, economic, and social consequences of childhood obesity, social marketing approaches and methods for measurement of obesity, diet and physical activity in children

Behavioural medicine research - School of Sport and Exercise Sciences - University of Birmingham (/research/activity/behavioural-med/index.aspx)

Introduces Behavioural medicine research in the School of Sport and Exercise Sciences.

Behavioural neuroscience research - School of Psychology (/research/activity/behavioural-neuro/index.aspx)

The behavioural neuroscience group within the School of Psychology take a biological approach to the psychology of human behaviours, investigating areas including co-ordination and balance, action prediction and agency, eating behavior, pain anxiety and attention, social cognition, motor control, psychosocial consequences of drug use and spatial attention.

B-Film (/research/activity/b-film/index.aspx)

Introduction to the research and study of B-Film at the University of Birmingham.

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