



Rigorous, Relevant Research

Cognitive & Affective Neurosciences

► Introduction

Research within the Cognitive & Affective Neurosciences (CAN) group focuses on the complex relationships between normal and atypical human behaviour and underlying brain structure and function, with a particular focus on developmental mechanisms. The diverse backgrounds CAN members provides the group with a broad range of expertise, and promotes the integrative approach to research methodology that characterises much of the group's activity. Research within CAN is accentuated by strong collaborative links with other groups both nationally and internationally and a portfolio of funding support from research councils, charities and from government. Close clinical and research collaboration exists with local and national NHS trusts with whom we liaise to effect translation of our research into clinical practice.

► Sponsors and funders

- ESRC
- EPSRC
- The Wellcome Trust
- The Lord Dowding Fund
- The Birmingham Children's Hospital Research Foundation
- European Neuroscience & Society Network
- EB Neuro
- Beacon Pharma
- UCB Pharma
- The Experimental Psychology Society
- The Learning Skills Foundation and the Home Office (UK)

► Key research projects

The aetiology of paediatric disorders of neurodevelopment:

- Pre-surgical evaluation of language and cognitive function in childhood epilepsy
- Gene-brain relationships in developmental dyslexia and overlapping phenotypes
- Evaluation of functional neural connectivity in autism spectrum disorders

Refining the neuro-cognitive basis of prevalent clinical disorders:

- Emotional processing biases in mood disorders
- Language and memory deficits in aphasia
- Cognitive and behavioural predictors of normal and pathological ageing
- Intermediate phenotype approaches to developmental disorders

Predicting human cognitive potential throughout development:

- Longitudinal predictors of children's academic skills
- Mechanisms of visuo-spatial attention
- Dimensional approaches to understanding normal and atypical cognitive development
- The effect of mobile phone use on brain function and memory

► Link to group web page:

www.aston.ac.uk/lhs/research/groups/ccn

► Key contact

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