



From Molecules to Man

Edinburgh Neuroscience

An “Institute without Walls”, Edinburgh Neuroscience aims to drive the fundamental genetic, cellular, organ and systems neuroscience research underpinning pathogenesis into mechanistic understanding and future diagnostics and therapeutics of important diseases of the nervous system. The mission of Edinburgh Neuroscience is to provide opportunities, scientific and social, for the members of the neuroscience community to get together; to foster communication and collaboration. Based within the College of Medicine and Veterinary Medicine (www.mvm.ed.ac.uk), Edinburgh Neuroscience has members in many diverse research centres:

Centre for Cardiovascular Sciences

Promoting excellence in research into cardiovascular disease, In addition to cardiovascular related research, this centres hosts neuroscience-related research in circadian physiology and in endocrinology and has outstanding programmes in translation research from basic mechanisms to clinical investigation.

Centre Director: John Mullins, Professor of Molecular Physiology

Website: www.cvs.med.ed.ac.uk

Centre for Clinical Brain Sciences

Promoting excellence in research and training of an internationally competitive standing in brain disorders, research staff often have clinical appointments. Members are drawn from the Division of Psychiatry, the Division of Clinical Neurosciences, the National CJD Surveillance Unit, the SFC Brain Imaging Research Centre and this centre is a member of the Scottish Imaging Network, a Platform for Scientific Excellence (SiNAPSE). Researchers interests cover brain imaging, experimental neuroscience, prion diseases, psychiatric research, psychological medicine and stroke.

Centre Director: Siddharthan Chandran, MacDonald Professor of Neurology

Website: www.ccbs.ed.ac.uk

Centre for Cognitive Ageing and Cognitive Epidemiology

This centre is committed to advancing research into how ageing affects cognition, and how mental ability in youth affects health and longevity. This centre has six main research groupings: cognitive epidemiology; human cognitive ageing; neuroendocrine aspects of ageing; animal models of cognitive ageing and neural health; human and animal brain imaging; genetics and statistics of brain ageing.

Centre Director: Ian Deary, Professor of Differential Psychology

Website: www.ccace.ed.ac.uk

Centre for Cognitive and Neural Systems

This centre is dedicated to understanding information processing by the central and peripheral nervous systems at several different levels – from cognitive psychology, through cognitive neuroscience and brain imaging, behavioural neuroscience and neuropharmacology, and extending to theoretical models of neuronal networks.

Centre Director: Richard Morris, Professor of Neuroscience

Website: www.ccns.sbms.mvm.ed.ac.uk

Centre for Integrative Physiology

Committed to developing and promoting international excellence in research and training in Integrative Physiology relevant to human and mammalian physiology, development and disease within the Genes & Development, Membrane Biology and Neural Control Systems Groups.

Director: Mike Shipston, Professor of Physiology

Website: www.cip.ed.ac.uk

Centre for Molecular Medicine

Part of the Institute of Genetics and Molecular Medicine, the Centre for Molecular Medicine aims to: investigate the molecular and genetic basis of human disease; conduct and integrate the highest quality clinical, epidemiological, statistical & laboratory science; translate the knowledge thus gained into improved scientific understanding and clinical practice. The Centre has major programmes in the genetics and biology of psychiatric disorders, motor neuron disease and Alzheimer’s disease.

Centre Director: David Porteous, Professor of Human Molecular Genetics & Medicine

Website: www.mmc.med.ed.ac.uk

Centre for Neuroregeneration

This centre seeks to understand the mechanisms of neural development, injury and repair. By identifying the functions of genes, refining biological imaging techniques, and creating more sophisticated disease models, the CNR is contributing to the development of new therapies for a range of neurodegenerative diseases. It incorporates the previous Centre for Neuroscience Research.

Centre Director: Peter Brophy, Professor of Veterinary Anatomy & Cell Biology

Website: www.cnr.ed.ac.uk

Centre for Regenerative Medicine

The MRC Centre for Regenerative Medicine brings together world leading basic stem cell research with established clinical excellence to deliver a "bench-to bedside" approach aimed at developing new treatments for major diseases including cancer, heart disease, diabetes, degenerative diseases such as multiple sclerosis and Parkinson's disease, and liver failure. It incorporates the Centre for Multiple Sclerosis Research.

Centre Director: Ian Wilmut, Professor of Reproductive Science

Website: www.crm.ed.ac.uk

Euan MacDonald Motor Neurone Disease Research Centre

The Euan MacDonald Centre for Motor Neurone Disease Research is a centre of excellence within the University of Edinburgh, set up to carry out research into MND (also known as Amyotrophic Lateral Sclerosis (ALS)). Its focus is on developing more effective treatment for patients and forming part of a worldwide effort towards finding a cure for the disease.

Centre Director: Siddharthan Chandran, MacDonald Professor of Neurology

Website: www.euanmacdonaldcentre.com

Human Cognitive Neuroscience. Psychology

Based in the Psychology Dept., College of Humanities & Social Science, HCN has research interests in memory, attention, executive function, visual cognition and perceptuo-motor control in normally functioning adults and in patients with a variety of neurological disorders.

Directors: Sergio Della Sala and Robert Logie, Professors of Human Cognitive Neuroscience

Website: www.psy.ed.ac.uk/research/hcn

Institute of Adaptive & Neural Computation, Informatics

Based in the College of Science & Engineering, members of IANC are interested in neuroinformatics and participate in collaborative work involving neuroscience, cognitive science, computer science, computational science, mathematics and statistics. Hosted by IANC, the Neuroinformatics Doctoral Training Centre is a world-class programme for interdisciplinary PhD research in neuroinformatics and computational neuroscience.

Institute Director: Chris Williams, Professor of Machine Learning

Website: www.anc.ed.ac.uk

Institute for Music in Human and Social Development

The Institute for Music in Human and Social Development brings together research and practice from a range of disciplines including music, psychology, informatics, sociology and medicine. Amongst its aims are: to strengthen the theoretical and scientific basis of therapeutic, educational and social practice in music and to investigate the complexities of musical intelligence and musical communication.

Institute Directors: Nigel Osborne, Reid Professor of Music and Dr Katie Overy

Website: www.music.ed.ac.uk/Research/imhsd.html

Neuropathogenesis Division, The Roslin Institute

Members of the Neuropathogenesis Division aim to further the understanding of the fundamental mechanisms of both the human and animal Transmissible Spongiform Encephalopathies and to study basic mechanisms of neuronal development, cell biology, homeostasis and neurodegeneration

Division Head: Jean Manson, Professor of Neurodegenerative Diseases

Website: www.roslin.ed.ac.uk

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