**MSc by Research, Self-funding projects starting September 2023**

**Is dominance in male rats related to hypervigilance for threats?**

Supervisors: Dr Emma Cahill & Prof Emma Robinson

<https://www.findaphd.com/phds/project/self-funding-msc-by-research-project-is-dominance-in-male-rats-related-to-hypervigilance-for-threats/?p141065>

**Trialling a novel computerized task to study compulsive eating behaviours**

Supervisors: Dr Petra Fischer and Dr Helen Bould

<https://www.findaphd.com/phds/project/msc-by-research-self-funding-project-trialling-a-novel-computerized-task-to-study-compulsive-eating-behaviours/?p146645>

**Dissecting principles of long-range neuronal connectivity in mammalian motor circuits**

Dr Paul Chadderton

<https://www.findaphd.com/phds/project/self-funding-msc-by-research-project-dissecting-principles-of-long-range-neuronal-connectivity-in-mammalian-motor-circuits/?p146646>

Neuroscience

**Probing the projections of different types of dopamine neurons**

Dr Paul Dodson

<https://www.findaphd.com/phds/project/self-funding-msc-by-research-project-probing-the-projections-of-different-types-of-dopamine-neurons/?p136428>

Neuroscience

**The role of circadian rhythm in bone repair in young and aged fish**

Dr Chrissy Hammond

<https://www.findaphd.com/phds/project/msc-by-research-project-for-self-funding-students-the-role-of-circadian-rhythm-in-bone-repair-in-young-and-aged-fish/?p142880>

Cell Biology

**ABCC9 mutations and risk of sudden cardiac death**

Prof Jules Hancox, Dr Stephen Harmer

<https://www.findaphd.com/phds/project/abcc9-mutations-and-risk-of-sudden-cardiac-death/?p146647>

Cell Biology

**Novel approaches to modulate platelet function and thrombosis in cardiovascular disease.**

Professor Ingeborg Hers

<https://www.findaphd.com/phds/project/novel-approaches-to-modulate-platelet-function-and-thrombosis-in-cardiovascular-disease/?p146649>

Cell Biology

**Underlying mechanism of thrombogenesis in patients with severe coronavirus disease 19 (COVID-19)**

Professor Ingeborg Hers

<https://www.findaphd.com/phds/project/self-funding-msc-by-research-project-underlying-mechanism-of-thrombogenesis-in-patients-with-severe-coronavirus-disease-19-covid-19/?p146650>

Cell Biology

***In vivo* characterisation of novel risk genes for Alzheimer’s disease identified by Genome Wide Association Studies**

Dr James Hodge

[MScR - In vivo characterisation of novel risk genes for Alzheimers disease identified by Genome Wide Association Studies at University of Bristol on FindAPhD.com](https://www.findaphd.com/phds/project/mscr-in-vivo-characterisation-of-novel-risk-genes-for-alzheimers-disease-identified-by-genome-wide-association-studies/?p150576)

Neuroscience

**Determining the genetic and circadian basis of bipolar disorder using *Drosophila***

Dr James Hodge

[MScR - Determining the genetic and circadian basis of bipolar disorder using Drosophila at University of Bristol on FindAPhD.com](https://www.findaphd.com/phds/project/mscr-determining-the-genetic-and-circadian-basis-of-bipolar-disorder-using-drosophila/?p149314)

Neuroscience

**Evaluation of novel genetically encoded fluorescent indicators of G-protein coupled receptor signalling**

Prof Sergey Kasparov

<https://www.findaphd.com/phds/project/msc-by-research-project-for-self-funding-student-evaluation-of-novel-genetically-encoded-fluorescent-indicators-of-g-protein-coupled-receptor-signalling/?p145790>

**Modulation of cyclic AMP level in astrocytes as a novel and alternative mechanism of action of antidepressants**

Prof. Sergey Kasparov

<https://www.findaphd.com/phds/project/self-funding-msc-by-research-project-modulation-of-cyclic-amp-level-in-astrocytes-as-a-novel-and-alternative-mechanism-of-action-of-antidepressants/?p146653>

Neuroscience

**Astrocyte mechanisms in depression**

Dr Valentina Mosienko

<https://www.findaphd.com/phds/project/mscr-astrocyte-mechanisms-in-depression/?p157668>

Neuroscience

**Early-life stress, susceptibility to mental health disorders and glia: central immune response in a rat model of pre-term birth**

Dr Valentina Mosienko

<https://www.findaphd.com/phds/project/mscr-early-life-stress-susceptibility-to-mental-health-disorders-and-glia-central-immune-response-in-a-rat-model-of-pre-term-birth/?p157669>

Neuroscience

**Can we improve patient outcomes by providing a more personalized approach to antiplatelet therapies?**

Professor Stuart Mundell

<https://www.findaphd.com/phds/project/msc-by-research-project-for-a-self-funding-student-can-we-improve-patient-outcomes-by-providing-a-more-personalized-approach-to-antiplatelet-therapies/?p146655>

Cell Biology

**Cryo-EM and High-resolution structural studies of cardiac thin filaments**

Dr Danielle Paul and Dr Rebecca Richardson

<https://www.findaphd.com/phds/project/msc-by-research-project-for-a-self-funding-student-cryo-em-and-high-resolution-structural-studies-of-cardiac-thin-filaments/?p146656>

Cell Biology

**Circadian Oscillators in Drinking and Feeding Brain Circuits**.

Professor Hugh Piggins

<https://www.findaphd.com/phds/project/self-funding-msc-by-research-project-circadian-oscillators-in-drinking-and-feeding-brain-circuits/?p146657>

Neuroscience

**Bioengineering platelets for Blood Transfusions**

Professor Alastair Poole and Professor Ingeborg Hers

<https://www.findaphd.com/phds/project/self-funding-msc-by-research-project-bioengineering-platelets-for-blood-transfusions/?p146659>

Cell Biology

**Using Zebrafish to Study Heart Disease and Tissue Regeneration**

Dr Beck Richardson

<https://www.findaphd.com/phds/project/self-funding-msc-by-research-project-using-zebrafish-to-study-heart-disease-and-tissue-regeneration/?p146660>

Cell Biology

**Advancing novel methods of assessing apathy-related behaviour in rodents**

Prof Emma Robinson, Dr Emma Cahill

<https://www.findaphd.com/phds/project/self-funded-msc-by-research-project-advancing-novel-methods-of-assessing-apathy-related-behaviour-in-rodents/?p145313>

**Cystic fibrosis: restoring ion transport with small molecules**

Prof David N. Sheppard

<https://www.findaphd.com/phds/project/self-funding-msc-by-research-project-cystic-fibrosis-restoring-ion-transport-with-small-molecules/?p146661>

Cell Biology

**The role of acute hypoxemia on potentially fatal cardiac ventricular arrythmias in humans**

Dr Ana Abdala Sheikh, Dr Stephen Harmer and Dr Emma Hart

<https://www.findaphd.com/phds/project/self-funding-msc-by-research-project-the-role-of-acute-hypoxemia-on-potentially-fatal-cardiac-ventricular-arrythmias-in-humans/?p129761>

Human Physiology

**Modulation of Brain Energy Metabolism by Astrocytic G-protein-coupled Receptors**

Dr Anja Teschemacher, Sergey Kasparov

[https://www.findaphd.com/phds/project/self-funding-msc-by-research-modulation-of-brain-energy-metabolism-~~by~~-astrocytic-g-protein-coupled-receptors/?p146663](https://www.findaphd.com/phds/project/self-funding-msc-by-research-modulation-of-brain-energy-metabolism-by-astrocytic-g-protein-coupled-receptors/?p146663)

Neuroscience