MSc/PhD- Projects at Keele

Project-4
Evaluating the effects of drugs/ small molecules on rodents' behaviour

Research type: lab based – *in vivo*

Your research project:
You will focus on evaluating the effect of a pharmacological compound (a drug or small molecule) on animal behaviour (wild type or models of disease). The aims and objectives of these research projects will be individually tailored for each student and their level of study (MSc or PhD). This type of observations would help you gain experience in behavioural study, analysis of biological assays, biostatistics, data presentation and academic writing.

Scientific output:

Your research output will be presented internally (seminars/ internal conferences) and in a dissertation format i.e. final MSc/PhD report or thesis as applicable. If the MSc/PhD student candidate is extremely successful, their findings can be presented in national / international conferences or could be published in a peer-reviewed journal.

It is expected from PhD candidates to have two or three publications by the time they graduate to enhance their employability.

Examples of research work & outputs:

1- Neonatal Exposure of Rats to Antidepressants Affects Behavioral Reactions to Novelty and Social Interactions doi
2- Antidepressant behavioral effects of duloxetine and amitriptyline in the rat forced swimming test doi

Employability:

This type of research would benefit those who would enjoy working in the lab, become a TA, PhD student or join the industry (neuroscience, behavioural neuroscience and/or neuropharmacology). Additional training opportunities could be provided to PhD candidates to enhance their employability (TBD). As duration of MSc courses are rather short, students are encouraged to engage with their supervisor sooner rather than later to be more productive in their research activities and outputs.