Unit Assessment – Module 6 Case Study: Whole Brain Imaging and Recording

Methods in Neurobiology

Overview

In this assignment you will work individually and develop a research project in which techniques from module 4, 5, and/or 6 can be used to answer a specific scientific hypothesis.

Instructions

Your assignment must be divided in at least 4 paragraphs:

1. Background - Give a clear and short scientific background about the subject of your research.
2. Aim(s) - State clearly what is the aim of your project/what is your scientific question or hypothesis you want to test.
3. Research plan - Write 1-2 paragraphs detailing what you want to do and how you are going to answer your hypothesis. Provide details about which research model(s) and techniques you are going to use and how you are going to set up the experiments. Your research plan must include at least two techniques from module 4-6.
4. Conclusions - Conclude your research plan indicating what are you expecting to find.
5. References (as needed) listed as in a scientific publication.

As explained before, it is NOT ok to copy from a published article, but it is ok to take inspiration from it. For example, you can use the same topic but change the aim or apply their model to another topic. Make sure though that your work is substantially different from that paper. Be original!

It is possible to continue working on the same research topic presented in the past assignments, BUT you must expand your plan to new hypothesis not submitted previously. For example, if you feel strongly about ALS and want to continue your research in this field, you can submit a new research plan including a new model, techniques and experiments that were not presented in the past class assignments.