



Important Contacts

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Funding

Funding for laboratory consumables is usually covered by internally and externally awarded funds to the PI (Primary Investigator, i.e. me in this lab).

Writing small applications in order to fund your own research is highly encouraged, as it is also great practice for more significant demands in the future (and getting a grant looks good on your CV).

A great way to find a grant that may fit your project is through one of the following websites, which contain large databases to search through, such as:

[Alternative Guide to Funding](#)

<https://www.sciencecentres.org.uk/resources/stem-clubs/funders-database/>

<https://www.scientifyresearch.org/grants/>

<https://www.grantsonline.org.uk/news/energy-environment-and-transport/>

Society grants

There are many societies that may be worth signing up with, as they provide for example student travel funds, and small research project pots. For example:

- The Association for the Study of Animal Behaviour (ASAB): www.asab.org
 - <https://www.asab.org/research-grants>
- British Ecological Society: <https://www.britishecologicalsociety.org/>
 - <https://www.britishecologicalsociety.org/funding/>
- The Linnean Society of London: <https://www.linnean.org/>
 - <https://www.linnean.org/the-society/medals-awards-prizes-grants>

Travel grants

- Are often available from societies that organise meetings and conferences – APPLY for those!
- Turing Funding: LJMU partnered funding scheme to support 6 weeks to 12 months (?) for research experience in any non-UK research institution. For details contact Will Swaney (p.3)!

Major funders in the UK

For more advanced career stages (i.e., post PhD):

- Royal Society: <https://royalsociety.org/grants-schemes-awards/grants/leverhulme-trust-senior-research/>
- NERC: <https://www.ukri.org/councils/nerc/guidance-for-applicants/types-of-funding-we-offer/discovery-science/>



General advice

(on grant writing, personal development, fundings sources, etc. A little bit Australia-biased, but a fantastic compendium by Scott Keogh at the Australian National University)

<https://keoghlab.com/resources-and-advice-for-students>

<https://suszaj.github.io/ZajitschekLab/skill/>

Open Science

I encourage open science (i.e. freely sharing results, data and code), to enhance scientific transparency and reproducibility. Generally, we will try to make our data and code publicly available upon publishing the results (or whenever data collection has been finished if long-term data are involved).

Currently, the best option for sharing smaller datasets might be via the Open Science Framework (OSF). Striving for highest research integrity you may want to explore the submission of study protocols and research proposals to OSF. This will keep you on track with your hypothesis testing and is a great opportunity to carefully plan not only your experimental design, but also analyses. Such practice can help avoiding pitfalls due to bad planning, as well as helping to ensure reproducibility, reducing bias and increasing objectivity and scientific validity of your research. It is a relatively new way of collaborating with journals, which may commit to publishing your study ahead of it being conducted, enhancing the possibility of publishing non-significant results (there remains a big bias towards “significance”; despite big words and some effort – as far as I can see in the foreseeable future).

I am currently collaborating with the University and the library to create some “Best practise” guidelines for data / code sharing.

Authorship

Like other labs, we will follow the APA guidelines with respect to authorship:

"Authorship credit should reflect the individual's contribution to the study. An author is considered anyone involved with initial research design, data collection and analysis, manuscript drafting, and final approval. However, the following do not necessarily qualify for authorship: providing funding or resources, mentorship, or contributing research but not helping with the publication itself. The primary author assumes responsibility for the publication, making sure that the data are accurate, that all deserving authors have been credited, that all authors have given their approval to the final draft; and handles responses to inquiries after the manuscript is published."

At the start of a new project, the student taking on the lead role can expect to be first author on a publication if it is carried through to completion; the PI (I) will typically be the last author. Students and interns who help over the course of the project may be added to the author list depending on their contribution, and their placement will be discussed with all parties involved in the paper. If a student takes on a project, but subsequently hands it off to another person, they will most likely lose first-



authorship. All these issues will be discussed openly, and you should feel free to bring them up if you are not sure of your authorship status or want to challenge it.

Similarly, if a full dataset is collected but not written up, this may be assigned to another person to expedite publication. This policy is meant to prevent data from remaining unpublished but will give priority to the person who collected the data initially.

Scientific Integrity

Research (Mis)conduct

We are fully committed to research integrity, which is the backbone of any reliable research, and will not tolerate research misconduct, including fabrication, falsification, or plagiarism of data and content.

I would suggest to read the LJMU policy on [Academic Misconduct](#), even if it's mainly written for taught content (if the link isn't working for you I have pdfs of the policy documents mentioned here).

Here a part of the [LJMU Code of Practise](#):

“The University derives its principles from the definition of “Research Integrity” provided by the Concordat to Support Research Integrity:

Honesty in all aspects of research, including in the presentation of research goals, intentions and findings; in reporting on research methods and procedures; in gathering data; in using and acknowledging the work of other researchers; and in conveying valid interpretations and making justifiable claims based on research findings.

The University encourages all involved in research to consider the wider consequences of their work and to engage critically with the practical, ethical and intellectual challenges that are inherent in the conduct of high quality research. It has adopted the following Principles, laid out by the UKRIO, which set out the responsibilities and values relevant to research: <https://ukrio.org/publications/code-of-practice-for-research/2-0-principles/> ”

A big problem is the reasons why people feel the need to engage in misconduct in the first place, and that's a discussion that we can have. If you are feeling pressured to succeed (publish a lot, publish in high impact journals), you should reach out and we can talk about it – but this pressure is something we all face and is never an excuse to fabricate, falsify, or plagiarize. Also, think about the goal of science and why you are here: you're here to arrive at the truth, to understand this diverse world that we live in better! Not only is research misconduct doing you a disservice, it's also a disservice to the field and the society. And it risks your entire career. It is never right and never worth it. Don't do it.



- Raise the issue directly with the person they believe is responsible – often an informal approach can quickly resolve an instance of workplace bullying.

OR

- Involve their manager/supervisor to assist in resolving the issue.

OR

- Raise the matter with another relevant manager/supervisor (such as myself)
- Talk to members of the Inclusion Ambassador team (e.g. Nic Koyama, our EDI coordinator: N.F.Koyama@ljmu.ac.uk, or any other member of the [trained team](#))

If the above approach does not resolve the issue, or you are not comfortable using this approach, you can

- Lodge a formal complaint or grievance, see here <https://www.ljmu.ac.uk/about-us/public-information/student-regulations/student-complaints>

If you notice someone being harassed/bullied, or are harassed/bullied yourself, we urge you to raise this with the Inclusion Ambassador. All reports of bullying (formal or informal) will be treated seriously and investigated promptly, confidentially, and impartially. No one who reports bullying or harassment will be victimised or disadvantaged. Managers and supervisors have a responsibility to ensure workers are not bullied or harassed and must also report any potential or actual incidents.

Taking Photos & Videos

We respect the privacy and comfort of laboratory members by only taking photos or video recordings of them with their explicit knowledge and consent. This is especially important before posting any images on social media. The goal of this is to foster an environment where everyone feels safe to be who they are, take risks, and have fun, without worry or self-consciousness.



Technical protocols, useful links and skills to learn

OSF: <https://osf.io/>

- Is used to host our shared protocols
- Used to organise and share data files etc of all separate projects
- Used for pre-registration of research projects

Meta-analysis

- <https://metaanalysis.zajitschek.net>

Lifespan analysis

- <https://lifespananalysis.zajitschek.net/>

R resources:

- Environmental computing: <http://environmentalcomputing.net/>
- R online courses: <https://cu-psych-r-users.github.io/cu-psych-r-tutorial/>
- R for data science: <http://r4ds.had.co.nz/>
- **Analytical skills:** General Stats: <http://students.brown.edu/seeing-theory/index.html>

Writing skills:

- <http://advice.writing.utoronto.ca/types-of-writing/science/>
- <https://blogs.nature.com/naturejobs/2016/10/28/scientific-writing-a-very-short-cheat-sheet/>
- <https://masterclasses.nature.com/> (there may be some offers for free insight snippets for writing/grants/publishing)
- <https://annhandley.com/9-qualities-of-good-writing/>
- <https://www.writing-skills.com/top-ten-writing-tips-for-scientists>

MindMapping:

A great resource to organise your thoughts! If you find you need visuals in addition to words. I use vue (<http://vue.tufts.edu/index.cfm>), ask me if you'd like to get a brief intro. Useful to plan experiments, papers, dinner plans, talks, arguments, your thesis, ... anything really!

Presentation skills:

- Compilation of knowledge from 16 TED talks: <https://www.inc.com/jeff-haden/16-ways-to-dramatically-improve-your-presentation-skills-from-16-powerful-ted-ta.html>
- <https://www.skillsyouneed.com/presentation-skills.html>



Practical skills and tools

Behaviour software



- Ethiovison -> We recently secured a Capital Research bid for this – to be updated SEPT 2023!
- Free alternative: Fish Tracker:
 - & Argus program: <https://github.com/samlani03/Argus>
- Free Resources for Behaviour: <https://edspace.american.edu/openbehavior/>

Fly maintenance



Fly Media Protocol: RAPID COOKER 3/2023

	500 ml	700ml	1000ml
Agar	7.5g	10.5g	15g
Sugar	25g	35g	50g
Yeast	50g	70g	100g
Propionic Acid*	1.5ml	2.1ml	3ml
Mold Inhibitor**	15ml	21ml	30ml

* Not strictly necessary, food seems to be lasting ok even without.

** 3 g Nipagen (or whatever mold inhibitor equivalent) substrate/litre diet, filled up to 30ml with EtOH

