



Job Title:	Postdoctoral Research Fellow in Neurodevelopment Research using Organoids
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Responsible to:	Min Kim
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Responsible for:	Not applicable
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Job Summary and Purpose:
To undertake research in accordance with the specified research project(s) under the supervision of the principal investigator.

Main Responsibilities/Activities
<ul style="list-style-type: none">• To undertake a range of research activities within a specified research area, assuming responsibility for specific areas of projects and making use of new research techniques and methods, in consultation with the research award holder or supervisor. This may include fieldwork, interviews, laboratory experimentation, critical evaluation and interpretation, computer-based data analysis and evaluation or library research.• Using initiative and creativity to identify areas for research develop new research methods and extend the research portfolio. Analysing and interpreting results of own research. Write up results and prepare papers for submission to appropriate journals and conferences, and other outputs as required and/or appropriate. Attend appropriate conferences for the purpose of disseminating research results of personal development. The post holder may also contribute to writing bids for research grants and will contribute to collaborative decision making with colleagues in areas of research.• Continually to update knowledge and develop skills and translate knowledge of advances in the area into research activity.• To plan and manage own research activity in collaboration with others. To carry out administrative tasks associated with specified research funding, for example risk assessment of research activities, organisation of project meetings and documentation. Implementation of procedures required to ensure accurate and timely formal reporting and financial control.• To contribute to teaching in the Faculty by carrying out student supervision and/or demonstrating within the post holder's area of expertise and under the direct guidance of a member of departmental academic staff, as appropriate.• The post holder may occasionally be required to supervise more junior research staff.



Person Specification

The post holder must have:

A doctoral degree in a relevant discipline (although individuals who have almost completed a doctoral degree may be appointed). Consideration may also be given to individuals who do not hold a doctoral degree but have required skills based on a number of years' experience in specified / relevant fields

The post holder will have authority over some aspects of project work and must be capable of providing academic judgement, offering original and creative thoughts and be able to interpret and analyse results.

Relationships and Contacts

Direct responsibility to the principal investigator or academic supervisor. The post holder may be asked to serve on a relevant Faculty committee. There may be additional reporting and liaison responsibilities to external funding bodies or sponsors. The post holder may work on original research tasks with colleagues in other institutions.

Special Requirements

To be available to participate in fieldwork as required by the specified research project

All staff are expected to:

- Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.
- Help maintain a safe working environment by:
 - Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand
 - Following local codes of safe working practices and the University of Surrey Health and Safety Policy
- Undertake such other duties within the scope of the post as may be requested by your Manager.



Addendum

This document provides additional information relating to both specific aspects of the post/faculty and any post specific person specification criteria. The information contained within this document should always be read in conjunction with the accompanying generic Role Profile.

Job Title:

Postdoctoral Research Fellow in Neurodevelopment Research using Organoids

Background Information/Relationships

We are aiming to appoint a motivated scientist with relevant skills for the project, able to lead a project individually and as part of a team. This is a multi-disciplinary project involving **brain organoid platform for translational research in healthy aging in children**. Therefore candidates with a PhD in these fields are welcome, providing a record of achievement and enthusiasm in research can be demonstrated. The project, in collaboration with a leading reaserach institute in Denmark, COPSAC, will be carried out in a well-established research group in the University of Surrey directed by Dr Min Kim and Dr Olivier Cexux. Candidates are expected to be proactive, excel in organisational and time- management skills, and have excellent inter-personal communication skills.

Person Specification

This section describes the sum total of knowledge, experience & competence required by the post holder that is necessary for standard acceptable performance in carrying out this role. This is in addition to the criteria contained within the accompanying generic Role Profile.

	Essential/ Desirable
PhD in Immunology, Molecular Biology, Multi-Omics or related field	Essential
Experience working with multicellular organoid cultures	Essential
Ability to manage the day-to-day running of a research project	Essential
Experience in macrophage biology	Desirable
Prior experience in large cohort analysis	Desirable
Prior experience in research involving neurodevelopment or prenatal nutrition.	Desirable
Familiarity with brain organoid models and related experimental methods	Desirable
Special Requirements	Essential/ Desirable
Able to work with human samples	Desirable

Key Responsibilities

1. Lead human brain organoid experiments,
2. To use established procedures, improve existing lab protocols and develop/standardise new protocols, assisting projects and providing technical support within a multidisciplinary group.
3. Analyse multi-omics data from longitudinal cohort studies to study the effect of prenatal diet on neurodevelopmental outcomes.
4. Collaborate with clinical and bioinformatics teams to bridge complex data into actionable insights.
5. Publish high-impact findings in peer-reviewed journals and present research at scientific conferences.
6. To maintain accurate lab records electronically and on paper.
7. To be responsible for Health and Safety in the laboratory (Everyone is responsible)

N.B. The above list is not exhaustive.