

## Research Fellow - Institute of Cancer and Genomic Sciences - 103617 - Grade 7

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Company: University of Birmingham

Location: United Kingdom

Category: life-physical-and-social-science

### Position Details

Institute of Cancer and Genomic Sciences, College of Medical and Dental Sciences

Location: University of Birmingham, Edgbaston, Birmingham UK

Full time starting salary is normally in the range £34,980 to £44,263 with potential progression once in post to £46,974

Grade: 7

Full Time, Fixed Term contract up to July 2027

Closing date: 14th May 2024

### Background

To create and contribute to the creation of knowledge by investigating genesis of fusion genes in paediatric cancer using NPM-ALK as an exemplar.

### Role summary

A University of Birmingham funded research fellow position is available to work in the lab of Professor Jon Frampton in collaboration with Professor Amos Burke in the Institute for Cancer and Genomic Sciences at the University of Birmingham and with Professor Suzanne Turner (University of Cambridge).

Fusion genes and proteins are an important feature of childhood cancer but their genesis and function are poorly understood. Extending the work of the Turner lab in Cambridge, in long-standing collaboration with Amos Burke, this work will generate new understanding of fusion genes using NPM-ALK as a paradigm that has been extensively studied in the Turner lab.

The Frampton lab has extensive experience and expertise in stem cell biology.

The finding of a variety of pre-malignant fusion genes in cord blood or in cytokine-stimulated CD34+ cells remains unexplained and no mechanism for their generation has been elaborated. Understanding of the processes involved in the generation of fusion genes will open potential avenues for new therapeutic approaches in childhood cancer.

All applicants should be proficient with basic tissue culture and molecular biology techniques and flow cytometry. Prior experience with metabolic analysis approaches is desirable but not required. Bioinformatics experience would be advantageous. Applicants should be able to demonstrate prior research success; for example, through publications/pre-prints, presentations at conferences and relevant academic prizes/travel awards.

### **Main Duties**

The responsibilities may include some but not all of the responsibilities outlined below.

Develop research objectives and proposals for own or joint research, with assistance of a mentor if required

Contribute to writing bids for research funding

Analyse and interpret data

Apply knowledge in a way which develops new intellectual understanding

Disseminate research findings for publication, research seminars etc

Supervise students on research related work and provide guidance to PhD students where appropriate to the discipline

Contribute to developing new models, techniques and methods

Undertake management/administration arising from research

Contribute to Departmental/School research-related activities and research-related administration

Contribute to enterprise, business development and/or public engagement activities of manifest benefit to the College and the University, often under supervision of a project leader

Collect research data; this may be through a variety of research methods, such as scientific experimentation, literature reviews, and research interviews

Present research outputs, including drafting academic publications or parts thereof, for example at seminars and as posters

Provide guidance, as required, to support staff and any students who may be assisting with the research

Deal with problems that may affect the achievement of research objectives and deadlines

Promotes equality and values diversity, acting as a role model and fostering an inclusive working culture.

### **Person Specification**

First degree in area of specialism **and** normally, a PhD (or one near to completion) relevant to research area or equivalent qualifications

High level analytical capability

Ability to communicate complex information clearly

Fluency in relevant models, techniques or methods and ability to contribute to developing new ones

Ability to assess resource requirements and use resources effectively

Understanding of and ability to contribute to broader management/administration processes

Contribute to the planning and organising of the research programme and/or specific research project

Co-ordinate own work with others to avoid conflict or duplication of effort

Knowledge of the protected characteristics of the Equality Act 2010, and how to actively ensure in day to day activity in own area that those with protected characteristics are treated equally and fairly

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