

Job Description – Postdoctoral Research Scientist

Department	Epigenetics
Grade	BI 6
Salary range	£30,751 per annum
Length of appointment	1 year in the first instance
Location	Babraham Institute
Working Hours	37 hours per week

Job Profile Summary

We are seeking a highly qualified and motivated candidate who shares a passion for scientific discovery to join an interactive, interdisciplinary and international team.

The Postdoctoral Research Scientist will work on an ERC starting grant to study ageing using *Caenorhabditis elegans* as a model system.

Ageing is a multifactorial process that involves the decline of protein folding homeostasis (proteostasis), mitochondrial dysfunction and metabolism among other cellular functions. Both the loss and the enhancement of proteostasis are associated with ageing and age-related disorders in diverse model systems. The maintenance of proteostasis requires a complex network of interactions among transcriptional and posttranscriptional mechanisms, however their dynamic relationship during ageing is not known.

To study network architecture during the ageing process, the candidate will exploit inter-individual variability in gene expression to infer gene network architecture and study the mechanisms underlying the widespread rewiring of proteostasis networks during early phases of the ageing process.

Key areas of Responsibility

- Working with *C. elegans* model organism
- RNAseq and ChipSeq library preparation and analysis
- Using lifespan assays to monitor ageing

Person Specification

Criteria	Essential (✓)	Highly Desirable (✓)	Desirable (✓)	Shortlisting (please indicate the specific criterion that can be shortlisted) (✓)
Education & Qualifications				
PhD in genetics, developmental biology, molecular biology, systems biology or related biological discipline	✓			✓
Relevant Experience				
Experience in good laboratory practice	✓			✓
Experience in molecular biology/molecular genetics	✓			✓
Experience in Bioinformatics/analysis of genome wide datasets	✓			✓
Experience in analysis of histone modifications by ChIP		✓		✓
Experience in Illumina library generation		✓		✓
Knowledge & Skills				
Working knowledge of genetics and genomics	✓			✓
Working knowledge of ageing or epigenetics		✓		✓
Working knowledge of C.elegans as a model organism		✓		✓
Working knowledge of Bioinformatics using large sequencing datasets		✓		✓
Able to comprehend and communicate in the English language to a level appropriate for the position	✓			
Excellent interpersonal skills with the ability to communicate with staff at all levels	✓			
Ability to work independently and as part of a team	✓			
Excellent accuracy and attention to detail	✓			
Excellent organisational skills, with good time management	✓			
Strong IT skills	✓			
Personal Attributes & Characteristics				
Ability to make independent decisions and solve routine problems	✓			
Self-motivated and adaptable to change	✓			
Willing to work flexibly at times	✓			
Empathy with the life sciences work of the Institute	✓			

The Babraham Institute

Postdoctoral Research Scientist – ERC-OC-LTC

INFORMATION ON TERMS & BENEFITS

The following is for information only and is not contractual statement of terms and conditions.

Holiday Entitlement	25 days per annum
Bank Holidays	Applicable to England and Wales
Christmas Closure days	3 days
Pension Scheme	<p>Babraham Institute is able to offer membership of a Group Personal Pension Scheme.</p> <p>We will provide you with details of this scheme once you commence work. Membership of the scheme is not compulsory but it is designated as Babraham Institute's Stakeholder exempt plan. The Institute does not make contributions to other personal pension schemes.</p>
Restaurant Facilities	The Refectory serves hot meals and snacks and the Forum provides a selection of snacks and hot and cold beverages for coffee and tea breaks.
Onsite Accommodation	The Institute has a number of hostels, flats and houses which can be rented. (There is currently a waiting list for all types of accommodation.)
Social	Sports & Social Club
Nursery	Nursery and Holidays Playscheme on site. (Availability of places is dependent on demand.)



Car Parking

There is free car parking in the Institute Car Park.

The Institute is committed to the implementation of a commuting strategy to try and reduce the growth in numbers of cars used to travel to work

Any offer of employment will be subject to security screening and may be subject to health screening. Any offer may also be subject to a general medical