

## Postdoctoral Research Fellow/Research Associate position available!

We are looking for a highly motivated, intellectually curious and creative postdoctoral research fellow with a strong interest in tissue maintenance, regeneration and ageing to join our lab.

The **Patel lab** at the School of Cellular and Molecular Medicine, **University of Bristol** studies how tissues regenerate themselves after damage and how they maintain themselves over time. Reactive oxygen species (ROS) play an important role in regeneration in multiple contexts, including local tissue repair, limb regeneration and nerve regeneration. Nevertheless, we still don't fully understand how ROS promote regeneration. The Patel lab uses the adult *Drosophila* intestine to better understand this process. Upon damage to the fly intestinal epithelium, intestinal epithelial cells produce ROS and activate stress signalling that promote stem cell-mediated regeneration, partly via p38 stress signalling (Patel et al., 2019, *Nature Communications*). Using loss- and gain-of-function *Drosophila* genetics, proteomics and transcriptomics, the research associate will investigate how ROS promote intestinal regeneration by identifying ROS-controlled regulators of regeneration and by determining the molecular responses to ROS and stress signalling. This work will have far-reaching impact on our understanding of regeneration in many contexts and may help develop therapies for tissue regeneration, inflammatory diseases and cancer.

Our lab is generously funded by the Wellcome Trust and you will have access to top-notch core facilities (e.g. proteomics, transcriptomics and imaging) for your work, travel funds to attend conferences and access to staff development courses.

You will have an undergraduate degree and PhD (awarded or soon to be awarded) in Life Sciences, or in a related subject. Prior experience with *Drosophila* genetics, molecular biology, microscopy, proteomics, transcriptomics, flow cytometry or bioinformatics is a plus, but is not essential.

To apply, please send your application including the following to [p.patel@bristol.ac.uk](mailto:p.patel@bristol.ac.uk):

- 1) CV, with contact information for 3 references
- 2) motivation letter (2 pages max) describing a) your most important research contributions, b) why you think your research is important and what impact it has had and c) your research interests and career aspirations

The full-time position is available from **15.08.20** and will be for 2 years in the first instance with the possibility of extension.

Non-UK candidates will be provided a guaranteed endorsement to apply for a high priority UK visa. Information about reimbursement of immigration and relocation costs can be found at: <http://www.bristol.ac.uk/jobs/relocation-support>.

Starting salary will commensurate based on experience (33,797-38,017£).

The city of Bristol offers a high quality of life and is often ranked the best place to live in the UK.

For more information, please visit [www.gutstresslab.org](http://www.gutstresslab.org).

