



We are looking for a Research Assistant/Associate to join the Sanz's laboratory at the University of Glasgow. The successful candidate will work on a Wellcome Trust project titled: "ROS via RET: a redox-regulated pathway to extend lifespan". The project aims to understand how and why we age, focusing on the role played by mitochondria and Reactive Oxygen Species.

Our laboratory is a leader in the study of mitochondrial ROS in the context of ageing, and we have characterised the first site-specific ROS signalling pathway, which regulates both animal lifespan and stress adaptation: ROS produced via reverse electron transport (ROS-RET) at respiratory complex I. The position requires the generation of *Drosophila melanogaster* models using state-of-the-art genome editing and the production and analysis of -omics data to dissect how mitochondria contribute to ageing. We aim to recruit enthusiastic candidates with strong knowledge of Molecular Biology. Candidates with experience culturing *Drosophila*, generating transgenic animal models, or bioinformatics will be given preference, but previous experience on those topics is not essential. Besides, our laboratory will provide training and mentoring to those candidates interested in applying for independent fellowships.

Relevant publications:

1. Mitochondrial Complex I derived ROS regulate stress adaptation in *Drosophila melanogaster*. Redox Biol. 2020 DOI: [10.1016/j.redox.2020.101450](https://doi.org/10.1016/j.redox.2020.101450).
2. Mitochondrial ROS produced via reverse electron transport extends animal lifespan. Cell Metabolism 2016 DOI: [10.1016/j.cmet.2016.03.009](https://doi.org/10.1016/j.cmet.2016.03.009).

The post has funding on a full-time basis for three years.

[For informal inquiries about the job, please contact Prof Alberto Sanz \(alberto.sanzmontero@glasgow.ac.uk\).](mailto:alberto.sanzmontero@glasgow.ac.uk)

Deadline for applications: 29th March 2021.

It is the University of Glasgow's mission to foster an inclusive climate, which ensures equality in our working, learning, research and teaching environment.

We strongly endorse the principles of Athena SWAN, including a supportive and flexible working environment, with commitment from all levels of the organisation in promoting gender equity.

The University of Glasgow, charity number SC004401.