



We have an exciting opportunity for a Research Assistant to join the Sanz's laboratory at the University of Glasgow. As a successful candidate, you will make a leading contribution to the project: "ROS via RET: a redox regulated pathway to extend lifespan" supported by the Wellcome Trust. The job requires expert knowledge in molecular and cell biology.

Specifically, you will conduct, manage and publish research in the fields of biology of ageing and mitochondrial biology. The position requires the generation of *Drosophila melanogaster* models to manipulate mitochondrial function and ROS levels *in vivo*. Candidates with experience culturing *Drosophila* and/or generating transgenic animal models will be given preference. Besides, you will assist in managing and directing this complex and challenging project, including supervision of junior staff. The Sanz's laboratory has characterised the first site-specific Reactive Oxygen Species (ROS) signalling pathway which regulates animal lifespan: ROS produced via reverse electron transport ([ROS-RET]) at respiratory complex I. The successful candidate will work towards fully characterising this new redox signalling pathway by addressing three aims. Firstly, identify the genes and proteins involved in the initiation, amplification and neutralisation of ROS-RET. Secondly, understand when and where ROS-RET needs to be activated to extend lifespan. Finally, dissect the epigenetic and metabolic changes associated with ROS-RET signalling.

Relevant publications:

1. Scialo F, Sriram A, Stefanatos R, Spriggs RV, Loh SHY, Martins, LM, Sanz, A. Mitochondrial Complex I derived ROS regulate stress adaptation in *Drosophila melanogaster*. *Redox Biol.* 2020 May;32:101450.
2. Mitochondrial ROS produced via reverse electron transport extends animal lifespan. Scialo F, Sriram A, Fernandez-Ayala D, Gubina N, Lohmus M, Nelson G, Logan A, Cooper HM, Navas P, Enriquez JA, Murphy MP, Sanz A. *Cell Metabolism* 23: 725-34.

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)

Apply online at: [my.corehr.com/pls/uogrecruit/erg\\_jobspec\\_version\\_4.jobspec?p\\_id=042884](https://my.corehr.com/pls/uogrecruit/erg_jobspec_version_4.jobspec?p_id=042884)

**Deadline for applications: 9<sup>th</sup> November 2020.**

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.