

# Ella Mercer

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MRC Centre for Regenerative Medicine, Edinburgh, EH16 4UU

## Education

### 2017-2022, University of Edinburgh: Wellcome Trust Tissue Repair PhD Student

Thesis: 'The role of cholinergic signalling in regulation inflammation of the salivary glands following radiotherapy' supervised by Dr Elaine Emmerson and Professor Anna Williams.

### 2013-2017, University of Sussex: BSc(Hons) Medical Neuroscience with a year abroad at Uppsala University, Sweden, 1<sup>st</sup> class

Dissertation: 'The role of mi-RNA regulation in motor development across the lifespan of *Drosophila Melanogaster*' supervised by Professor Claudio Alonso.

## Research projects

### May 2019-Oct 2022: Dr Elaine Emmerson, The University of Edinburgh

"The role of cholinergic signalling in regulation inflammation of the salivary glands following radiotherapy"

### April 2018-May 2019: Professor Dies Meijer, The University of Edinburgh

"The mechanisms of voltage-gated potassium Kv1 channel clustering at the juxtapanodes"

### Sept-Dec 2016: Final Year Project Student: Professor Claudio Alonso, The University of Sussex

"The role of miRNA regulation in motor development across the lifespan of *Drosophila Melanogaster*"

### Mar-Aug 2016: Research Assistant: Professor Klas Kullander, The University of Uppsala

1) "Effects of the conditional deletion of the SLC10A4 gene in serotonergic neurons"

2) "The role of the DMRT3 gene in the motor networks of the spinal cord"

### Aug-Nov 2015: Project Student: Professor Michael Williams, The University of Uppsala

"The effect of age and sleep fragmentation on ROS levels in *Drosophila Melanogaster*"

## Selected funding/grants

- **Feb 2020:** British Society for Immunology, £500 to run public engagement activity on HPV vaccine.
- **Jan 2020:** CMVM Public Engagement Seed Fund, £800 to interview head and neck cancer patients.
- **April 2019:** UK Reproducibility Network, £500 travel award to attend BNA 2019, Dublin, Ireland.
- **June 2018:** Physiological Society, £500 registration fee waiver to attend 'Experimental Models in Physiology' meeting, Exeter, UK.

## Publications

1. McKendrick, J\*, **Mercer, E\***, Emmerson E. More than just sensing: Neuronal regulation of infection, regeneration and cancer. *In preparation for submission to NPJ Regenerative Medicine.*

2. Williams, M., Perland, E., Eriksson, M., Carlsson, J., Erlandsson, D., Laan, L., Mahebal, T., **Potter, E.**, Fredriksson, R., Benedict, C. and Schiöth, H. (2016). Recurrent Sleep Fragmentation Induces Insulin and Neuroprotective Mechanisms in Middle-Aged Flies. *Frontiers in Aging Neuroscience*, 8. PMC4969361.

3. Perry, S., Larhammar, M., Nagaraja, C., Hilscher, M., Tafreshiha, A., **Potter, E.**, Edwards, S., Caixeta, F. and Kullander, K. (2016). Dmrt3 derived spinal cord neurons regulate locomotor coordination across different speeds. From: Perry, S. 2016. *Deciphering the Locomotor Network. The Role of Spinal Cord Interneurons. Digital Comprehensive Summaries of Uppsala Dissertations from the Faculty of Medicine* 1272. 89 pp. Uppsala: Acta Universitatis Upsaliensis. ISBN 978-91-554-9741-5.

## Conferences/workshops

- **30<sup>th</sup> August 2019:** Scottish Neuroscience Day, Heriot Watt University, UK: preregistration poster: 'The role of peripheral nerves of the niche in regulating inflammation in the salivary gland'.
- **24<sup>th</sup>-26<sup>th</sup> April 2019:** Science at the Interface of Industry workshop, University of Edinburgh, UK.
- **14<sup>th</sup>-17<sup>th</sup> April 2019:** British Neuroscience Association Festival 2019, Dublin, Ireland: *poster*, 'Adam proteins in the assembly of voltage gated potassium channel complexes at the cerebellar pinceau'.
- **10<sup>th</sup>-14<sup>th</sup> September 2018:** EQIPD reproducibility summer school, Radboud, The Netherlands.
- **27<sup>th</sup>-29<sup>th</sup> June 2018:** Experimental Models in Physiology Conference, University of Exeter, UK: *oral communication*, 'Skin organoids as an in vitro model to investigate the interaction of autonomic nerves in wound healing'.