

Cecilia Zuglian

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Motivation:

Graduated Masters student wanting to explore a new research environment. Seeking to pursue an academic career studying neurobiology, with a particular interest in neurodevelopmental and neuropsychiatric disorders.

Research Experience:

BAP summer school internship, Cardiff University (June 2023- August 2023)

Title of the project: *Rescue of cellular phenotypes in human iPSC-derived striatal neurons from 16p11.2 deletion carriers by targeting ERK signalling*

- Undertaken as a graduated master student
- Working on iPSC – derived striatal neurons from 16p11.2 deletion patients
- Trying to rescue the correct activity of ERK signalling, found aberrant in 16p11.2 deletion iPSCs

Erasmus student, Cardiff University (November 2022- June 2023)

Dissertation: *ERK signalling activation in the brain of a 16p11.2 deletion mouse model*

- Undertaken as part of MSc
- Working on mouse models, both adult and embryos, of 16p11.2 deletion and duplication associated with neurodevelopmental disorder.
- Used immunohistochemistry techniques both in bright field and in fluorescent
- Acquired and quantified results and analysed through statistical analysis
- followed and supervised new students in the lab
- Presented a progress report and produced goals and hypotheses during weekly laboratory meetings

Undergraduate Project, University of Trento, Italy (November 2019 – January 2020)

Dissertation: *Neuronal Activation in Drosophila Melanogaster*

- Undertaken as part of BSc, at CIMEC Mind and Brain Interdepartmental Centre, Rovereto, Italy.
- The aim of the project was the activation of the Drosophila nervous system through optogenetic stimulation and two-photon calcium imaging.
- Presented a progress report and produced goals and hypotheses during weekly laboratory meetings

Education:

PhD, Biomedical Bioscience, Università di Pavia, Italy (October 2023 – present)

MSc, Neurobiology, Università di Pavia, Italy (2020-2023)

Final score: 109/110

BSc, Biological Science, Università di Ferrara, Italy (2017-2020)

Final score: 94/110

High school diploma in Human Science, G. Renier High School, Belluno, Italy (2011-2016)

Final score 77/100

Skills and ability:

- Immunohistochemistry (bright field and fluorescent)
- Western Blot (traditional and automated Jess western blot)
- Cell procedures (feeding, fixing, freezing, defrosting) (HEK239 iPSCs)
- PCR (genotyping)
- General lab procedures (including preparation of solution)
- Scanning and acquiring images through either slide scanners (AxioScan and associated Zeiss Zen software) or Leica upright microscopy
- Analysing images through ImageJ.
- Using Excel, R, and GraphPad Prism to apply statistical analysis to the data collected, Photoshop and Word for producing report, Power Point to present data

Membership and Founding

- Training member of the British Association for Psychopharmacology
- Summer scholarship founded by the British Association for Psychopharmacology

Other work experiences:

Summer internship, Unifarco, Santa Giustina, Belluno, Italy (1st July 2021 – 9th September 2021)

- Undertaken during BSc
- Nutraceutical Research and Development Laboratory
- Working on the development of food supplier

References available on request.