Mechanisms of cortical and respiratory degenerations in Amyotrophic Lateral Sclerosis

https://neurodegenerationresearch.eu/survey/mechanisms-of-cortical-and-respiratory-degenerations-in-amyotrophic-lateral-sclerosis/

Name of Fellow

Mr Matthew Fogarty

Institution
Funder

NHMRC

Contact information of fellow
Country

Australia

Title of project/programme

Mechanisms of cortical and respiratory degenerations in Amyotrophic Lateral Sclerosis

Source of funding information

NHMRC

Total sum awarded (Euro)

€ 226,477

Start date of award

01/01/16

Total duration of award in years

4.0

The project/programme is most relevant to:

Motor neurone diseases

Keywords

amyotrophic lateral sclerosis | pathogenic mechanisms | patch clamp | motor cortex | molecular basis of disease

Research Abstract

This study will be the first to chronicle how and when motor neurons (MNs) in the brain and spinal cord degenerate before, during and after ALS symptoms in 2 different mouse models. The MNs studied control breathing muscles and are a key disease progression and mortality indicator in patients. I expect drastic shape and electrical abnormalities, providing information useful to clinicians about how and when brain and spinal cord MNs degenerate, uncovering new therapeutic targets and time-points.

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Fellowships

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