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TIM TRACEY

Neuroscience [Dr. Shyuan Ngo](#)



In amyotrophic lateral sclerosis (ALS), studies have shown that dysregulation in whole body metabolic homeostasis correlates with disease progression. While such dysfunctions have been observed at a whole body level, the implications of these metabolic aberrations in disease-relevant cell types are not well understood. Using the process of direct reprogramming, I will generate motor neurons from ALS and control skin samples, and interrogate these cells using single-cell RNA sequencing. This will allow me to confirm whether metabolic pathways in ALS neurons are disrupted, and assess to what degree this affects neuronal phenotype, and subsequently, disease progression.

PhD Student at the Australian Institute for Bioengineering and Nanotechnology

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