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ISABELLE DE LUZY

Neuroscience [A/Professor Clare Parish](#)



Improving the safety and function of pluripotent stem cell-derived neural transplants for the treatment of Parkinson's disease.

Human pluripotent cells are a promising tool for 'cellular replacement therapy', whereby these cells can replace lost ventral dopaminergic neurons (vmDA) in Parkinson's disease patients.

Despite the successful generation of bona fide vmDA neurons in vitro, the asynchronous, heterogenous nature of differentiation means in vivo graft populations consist of proliferative, immature and terminally differentiated cells. It is therefore imperative to remove these poorly specified and potentially tumorigenic cells.

I propose to use dual techniques to improve both the safety and function of pluripotent stem cell-derived neural transplants.

PhD Student at The Florey Institute

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