

Wednesday 15th November '17 at 1.00pm

Sir Peter MacCallum room, Level 4 West, Medical Building 181

A light lunch is provided at 12.45pm

**Associate
Professor
KAY DOUBLE**

Converging pathways for cell death in neurodegenerative disease

Shared pathologies between neurodegenerative disorders offer unique opportunities to identify common molecular mechanisms of neuron death, and apply lessons learned from one disease to another. We have characterised altered metal pathways in idiopathic Parkinson's disease and recently demonstrated that a well-characterised neurotoxic proteinopathy associated with the metalloprotein superoxide dismutase-1 in familial amyotrophic lateral sclerosis is recapitulated in idiopathic Parkinson's disease. Our data suggest that aetiological pathways in these two phenotypically-distinct disorders share converging mechanisms which may represent tractable targets for the development of protective therapies.

Kay Double is Associate Professor of Neuroscience at the Sydney Medical School based at the Brain and Mind Centre, University of Sydney. Her research spans both basic and clinical aspects of neurodegenerative disease, from a neurochemical and neuropathological perspective. Her current interests include neuronal vulnerability, particularly mechanisms of selective neuronal loss in neurodegenerative disorders of movement, early diagnosis of brain cell death and neurogenesis. She is Executive Secretary of the Australasian Neuroscience Society and chairs the Advisory Committee of Parkinson's New South Wales.



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