The potential of research in the Centre for Brain Research to advance research in Parkinson’s Disease

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Promote collaborative research

Research

Community

Clinical
Brain Research at The University of Auckland

- 84 different research groups across the University
  - Neuropathology & Clinical neuroscience
  - Cognitive Neuroscience & Neuropsychology
  - Molecular, Cellular, Genetic Neuroscience
  - Sensory and Motor Neuroscience

- More than 450 researchers in the Centre
Clinical Research at the Auckland Hospitals

- Neurologists
- Neurosurgeons
- Neuropsychologists
- Neuroradiologists
- Geriatricians
- Psychiatrists
- Neuropathologists

- Develop New Treatments & Science
  - Deep brain stimulation (PD)
  - Choroid Plexus Transplants for PD
  - Neurosurgical biopsies – grow brain cells
Community Partners

- Parkinsons New Zealand
- Parkinsons Auckland
- Alzheimers New Zealand
- Dementia Auckland
- Epilepsy New Zealand
- Huntington’s Disease Association
- Motor Neurone Disease Association of New Zealand
- Multiple Sclerosis Society of Auckland
- Multiple Sclerosis Society of New Zealand
- Muscular Dystrophy Association of New Zealand
- Stroke Foundation of New Zealand
- Stroke Foundation Northern Region
The Neurological Foundation of NZ
Human Brain Bank – Established in 1994

- Huntington’s Disease
- Parkinson’s Disease
- Alzheimer’s Disease
- Epilepsy
- Motor Neuron Disease
- Multiple Sclerosis
- Glioblastoma tumours

SUPPORTED BY:
- Alzheimers New Zealand
- Dementia New Zealand
- Parkinsons New Zealand
- Huntington’s Disease Association
- Epilepsy Association of New Zealand
- Motor Neuron Disease Association of New Zealand
The Neurological Foundation Human Brain Bank: A World-Class Resource—Centre for Brain Research
• Up to 120 blocks per brain
• Tissue from >1000 brains
• 45,000+ blocks in storage
Culture human brain cells

Dissection → Dicing → Digestion → Cell culture

Experiments and Analysis
Team Collaboration is the key to World Class Research

Science is about people