





Company Presentation

About us

- Contract **R**esearch **O**rganisation, incorporated in 199
- Providing world-class science and innovative technologies to develop new treatment strategies for movement disorders, cognitive impairment and neurodegenerative diseases.



Scientific Team

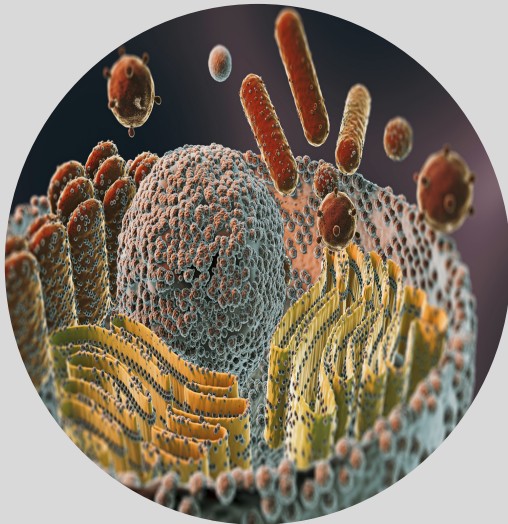
Our in-house scientists include internationally recognised experts in neuroanatomy, neurophysiology, neuropharmacology and neuropsychology. Management features top academic scientists with more than 400 publications with years of active research experience in these fields.

Business

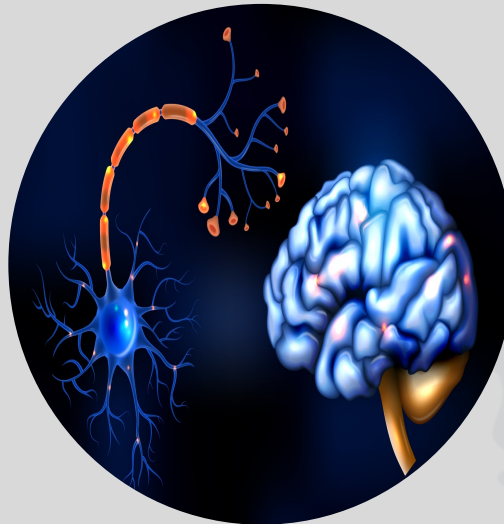
- 🗣️ Clients range from prominent pharmaceutical companies to SMEs and start-ups.
- 🗣️ Hundreds of contract research projects successfully completed.
- 🗣️ Global player with customers worldwide.
- 🗣️ Partner in several research consortiums, private, academic and institutional organisations.

Bridging the gap between pre-clinical and clinical research

Core Expertise: Disease Modeling



Cell Biology



System Neurobiology



Animal behaviour

A wide range of rodent and monkey models of movement disorders and neurodegeneration

Wide Range of Expertise

- Models of Proteinopathies i.e., PD, MSA, AD, PSP, HD and SLA
- Models of movement disorders
- Models of cognitive disorders
- Models of spinal cord injury
- Stereotactic surgery
- Neurohistology / Immunohistochemistry
- Neurochemistry / Neurobiochemistry
- In vivo (chronic) calcium imaging
- Measurement of motor performance
- CANTAB platform for cognition
- Measurement of sleep and attention

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Expert Consultancy

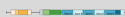
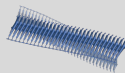
Lab-based research

*Access to state-of-the-art
technology*

*Highly-trained &
dedicated staff*

Modeling Parkinsonian Syndromes

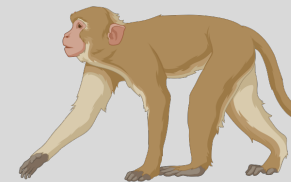
PD models

				
	✓		✓	
	✓			✓
		✓		
		SNCA-OVX Mitopark		
	✓		✓	✓
	✓	✓		✓
	✓	✓		✓

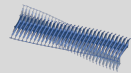
Various transgenes:
Syn, shAT13A2, tyrosinase

Modeling Parkinsonian Syndromes

MSA models



✓ PLP-SYN



Modeling Parkinsonian Syndromes

Neurotoxin models (all regimens/locations):

- MPTP mouse
- 6-OHDA mouse
- 6-OHDA rat
- LPS mouse
- LPS rat
- MPTP macaque

Transgenic models:

- PLP-synuclein mouse (The gold standard model of MSA)
- SNCA-OVX mouse (BAC human synuclein on a mouse synuclein null background)
- Mitopark mouse

Modeling Parkinsonian Syndromes

Viral vector-mediated modelling:

- AAV-synuclein rat (the mouse version is disappointing; the rat version is great)
- AAV-MBP-synuclein rat (model of MSA)
- AAV-synuclein macaque
- AAV-shATP13A2 macaque
- AAV-Tyrosinase (mouse, rat, macaque) - NEW

Seeding models:

- PFF synuclein mouse
- PFF synuclein macaque
- Lewy body mouse (intracerebral injection of Lewy bodies extracted from the brain of PD patients)
- Lewy body macaque (PD)
- Lewy body macaque (DLB)
- GCI macaque (MSA)

Extending to other proteinopathies

Seeding models:

- Tau PSP (progressive supranuclear palsy)
- Tau AD (Alzheimer's disease)
- HTT HD (Huntington's disease)
- TDP-43 (ALS and FTD – Amyotrophic lateral sclerosis and frontotemporal dementia))
- etc.. (intracerebral injection of Lewy bodies extracted from the brain of PD patients)

THANK YOU

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