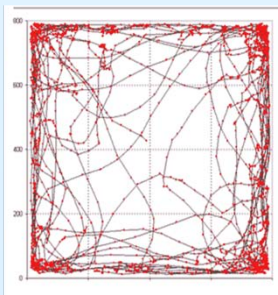
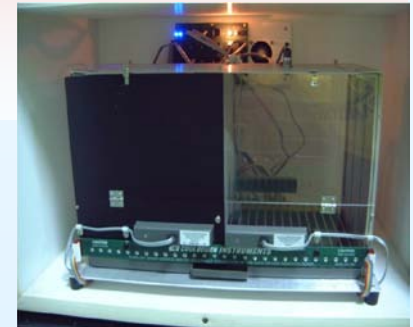
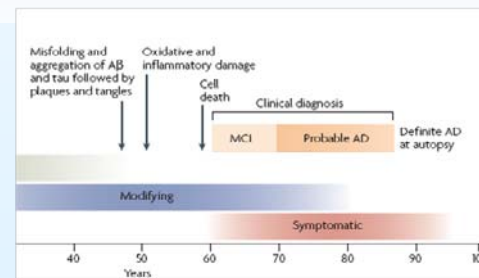
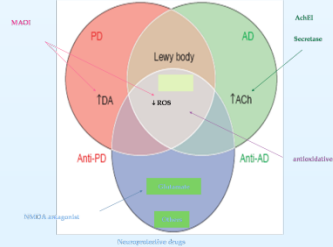
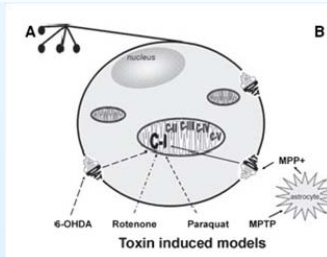


研究主題平台XIV — 神經科學暨動物行為

多功能神經保護植物藥研發

- 抗氧化暨抗發炎活性評估
- 抑制 AChE、MAO 暨 secretase 等活性評估
- Neurotoxin 損傷保護作用與分子機制
- 改善動物行為與記憶能力作用機制



Induced models: chemical	• Cholinergic hypofunction	• Cognitive deficits	• Increased insight into role of cholinergic system in cognition
Scopolamine			• Preclinical evaluation of cholinesterase inhibitors
Aβ infusion (single or chronic)	• Increased Aβ levels	• Cognitive deficits	• Increased insight into Aβ toxicity
		• Behavioural alterations	• Preclinical evaluation of Aβ targeting drugs
Chemicals affecting specific pathways	• Neuronal loss	• Cognitive deficits	• Increased insight into roles of specific pathological pathways in neurodegeneration
	• Synaptic dysfunction	• Behavioural alterations	• Preclinical evaluation of drugs targeting specific pathway
	• Cellular inflammatory activation		
Induced models: CNS-specific lesions			
Basal forebrain	• Cholinergic hypofunction	• Cognitive deficits	• Increased knowledge of neural mechanisms of cognitive deficits
			• Evaluation of neuroprotective drugs if neurotoxic lesion
			• Preclinical evaluation of cholinesterase inhibitors
Other brain regions relevant to cognition	• Neurotransmitter dysfunctions	• Cognitive deficits	• Increased knowledge of neural mechanisms of cognitive deficits
		• Behavioural alterations	• Evaluation of neuroprotective drugs if neurotoxic lesion

