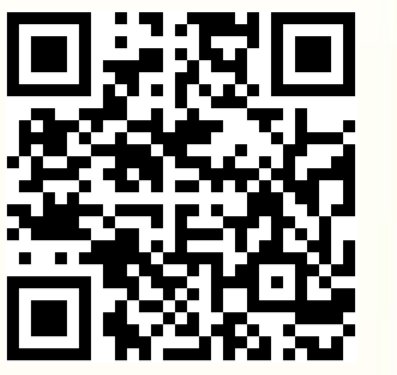


花蓮慈濟醫院研究部

神經損傷、再生與治療研究室

Neurological Injury, regeneration & Translational Research Laboratory

Pubmed



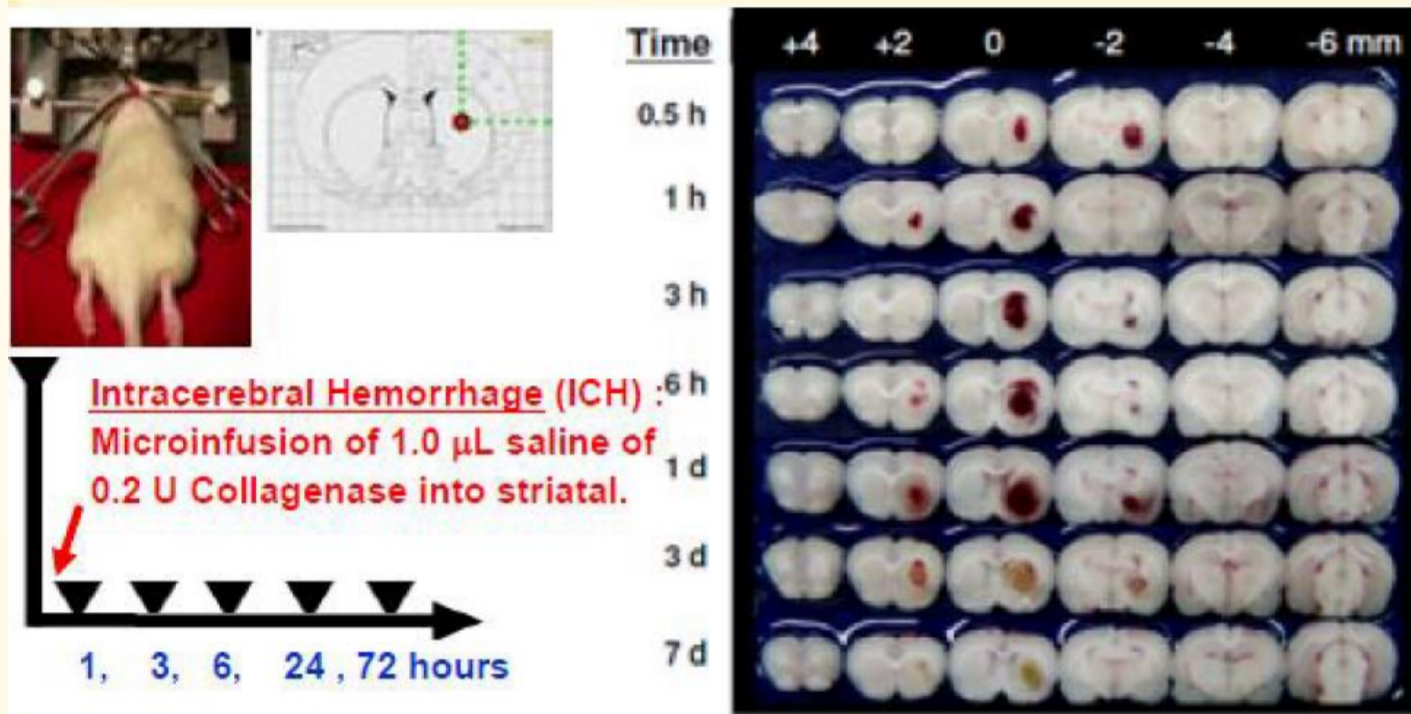
馮清榮 博士

合作實驗室：神經醫學科學中心、眼科研究中心、巴金森病研究室、心臟血管疾病研究室、放射腫瘤科、小兒部、研究部

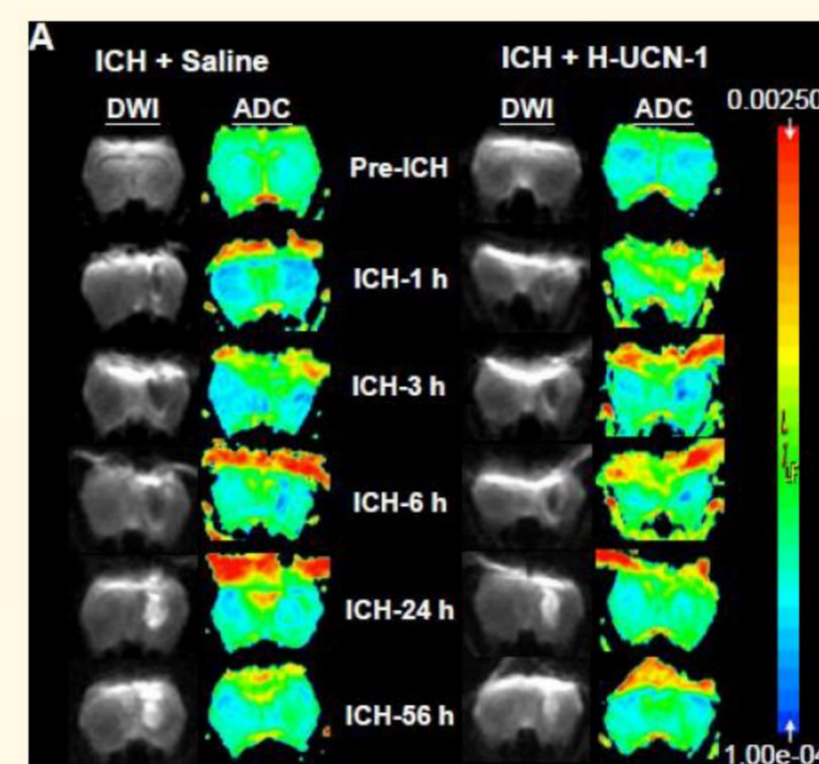
院外合作Lab：三軍總院神經外科、新北市立醫院神經外科、台中慈濟醫院研究部、慈濟大學藥毒所、慈濟大學醫科所、慈濟大學物治系

本研究室以『腦傷分析系統 (Brain Injury Platform & Patent)』探討神經損傷的致病機轉，並進行神經再生的轉譯與基礎研究：

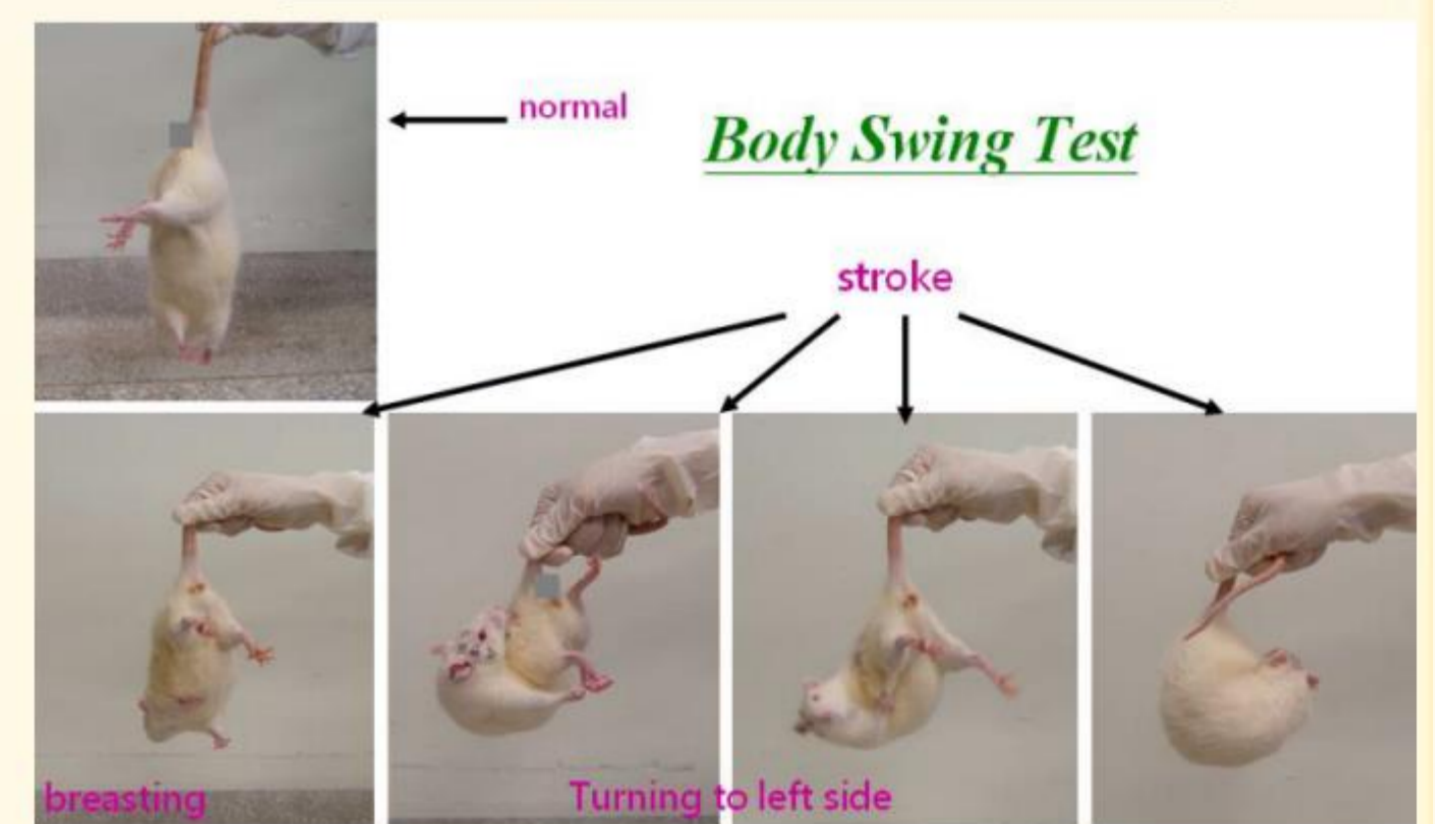
Intracerebral Hemorrhage Model



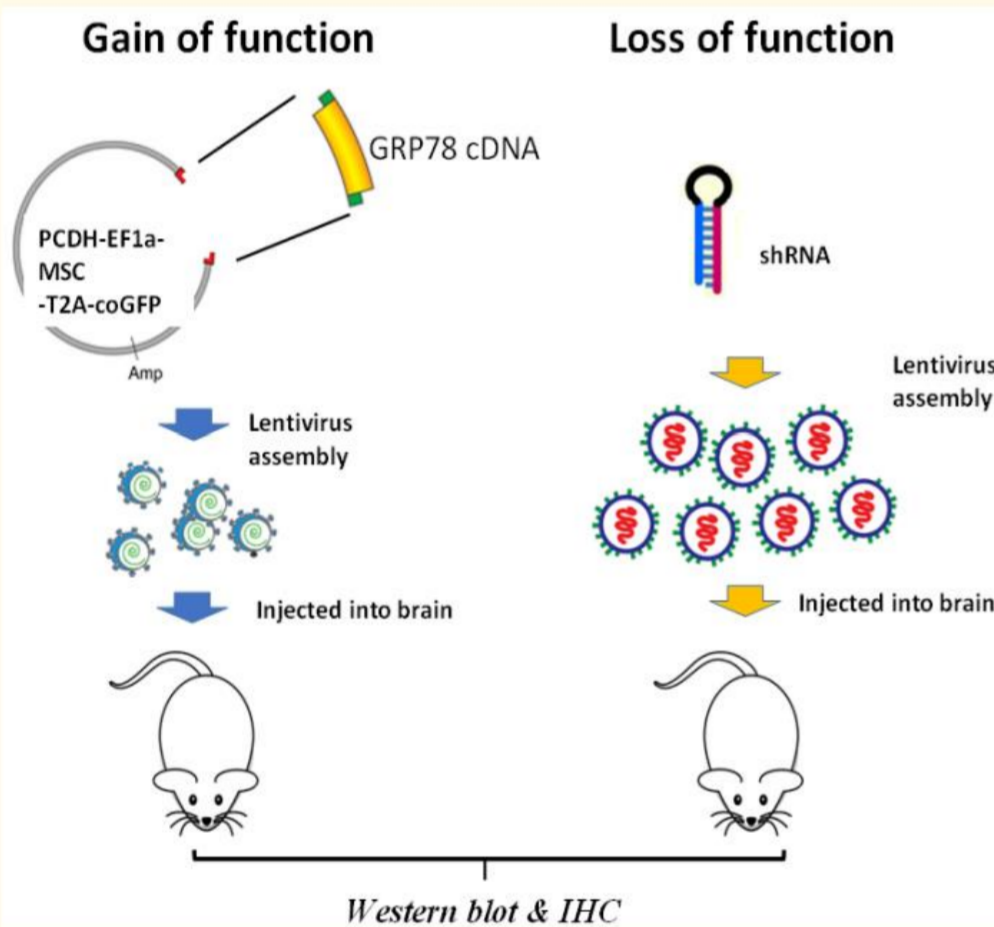
MRI: Cerebral Perfusion



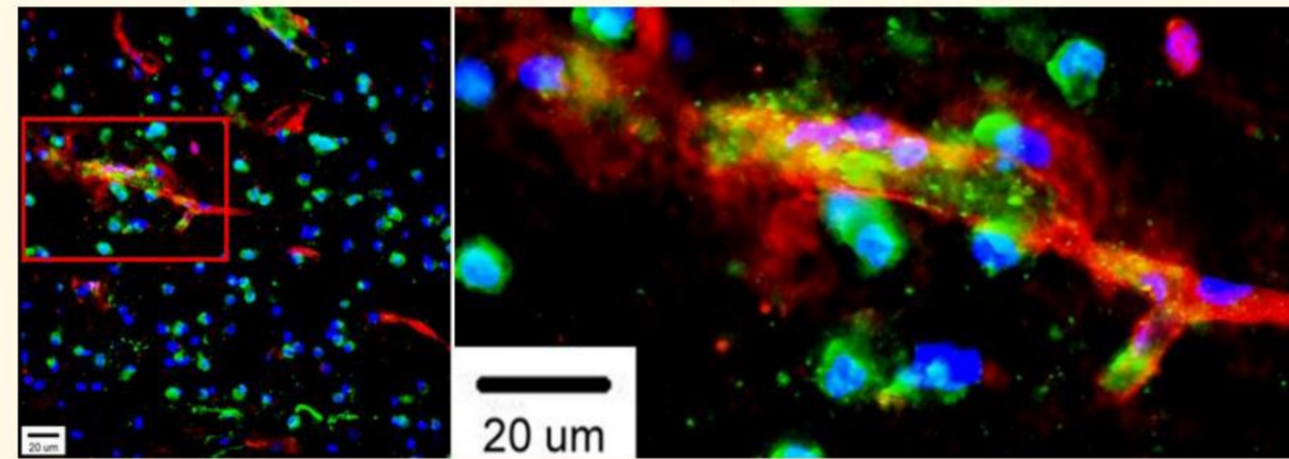
Neurological Function Assays



Gene Transfection: *in vivo*



Immunohistochemical Staining

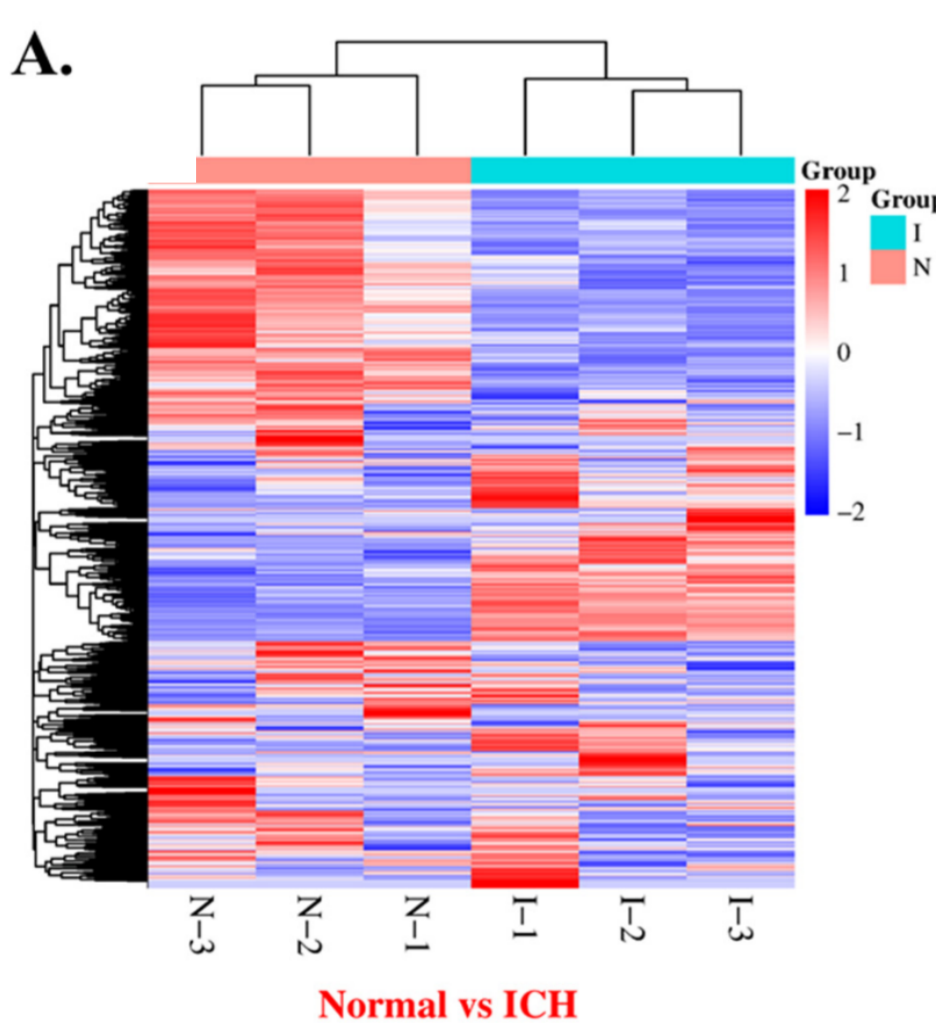
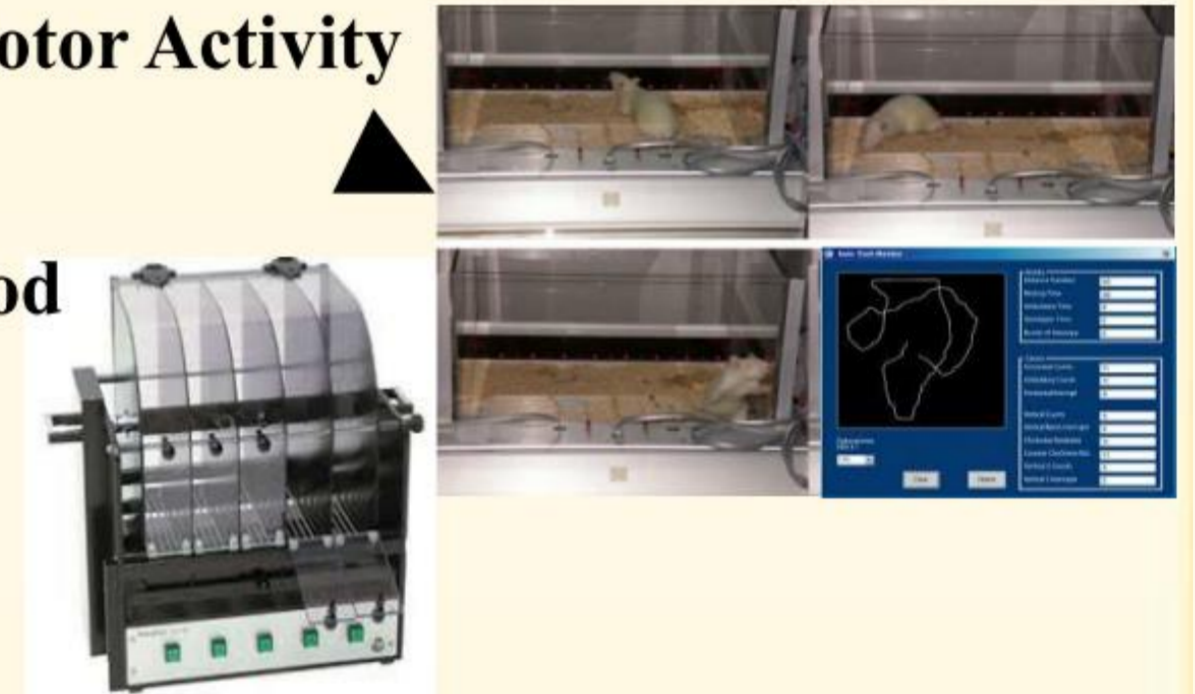


Treadscan

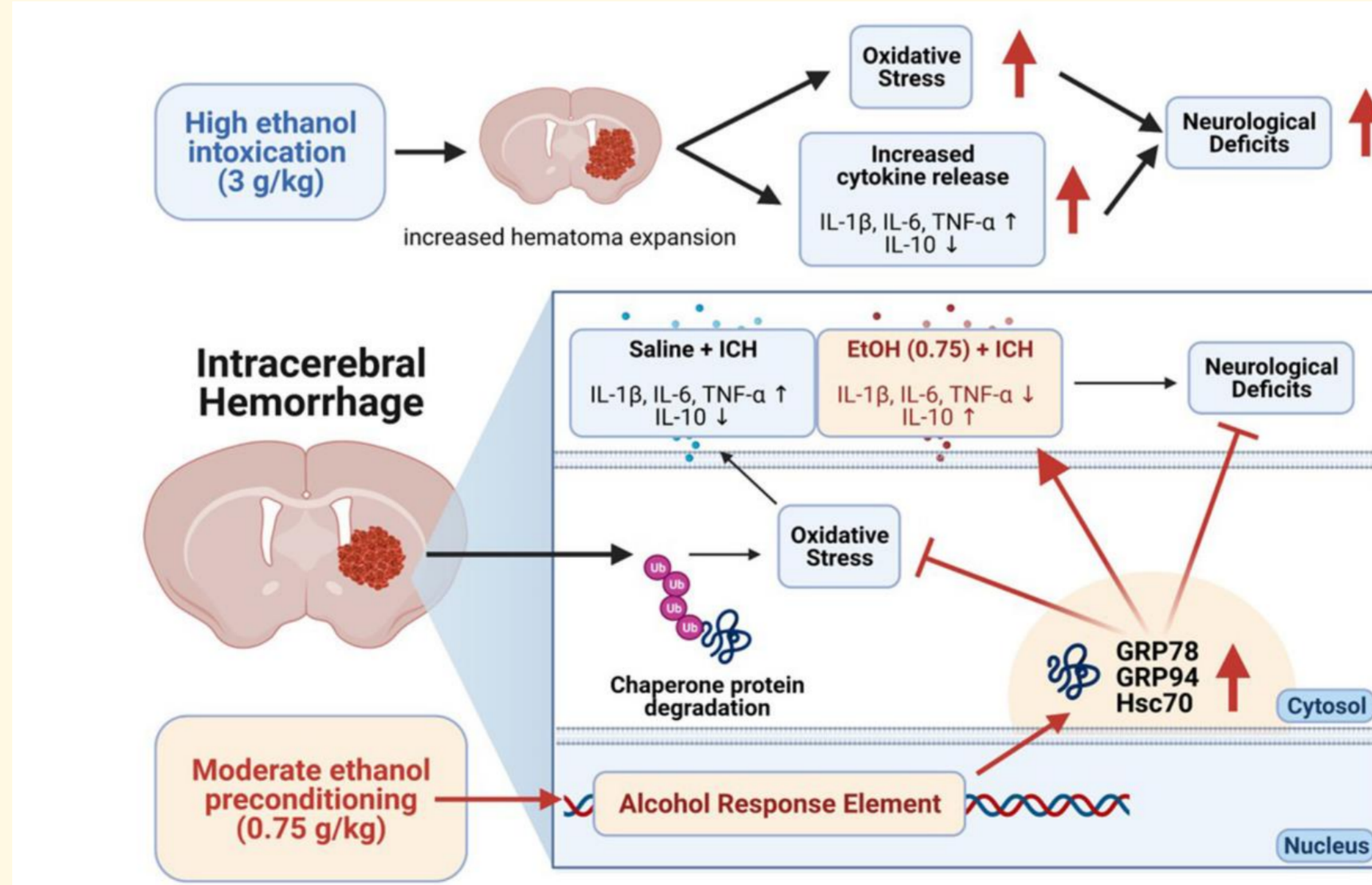


Locomotor Activity

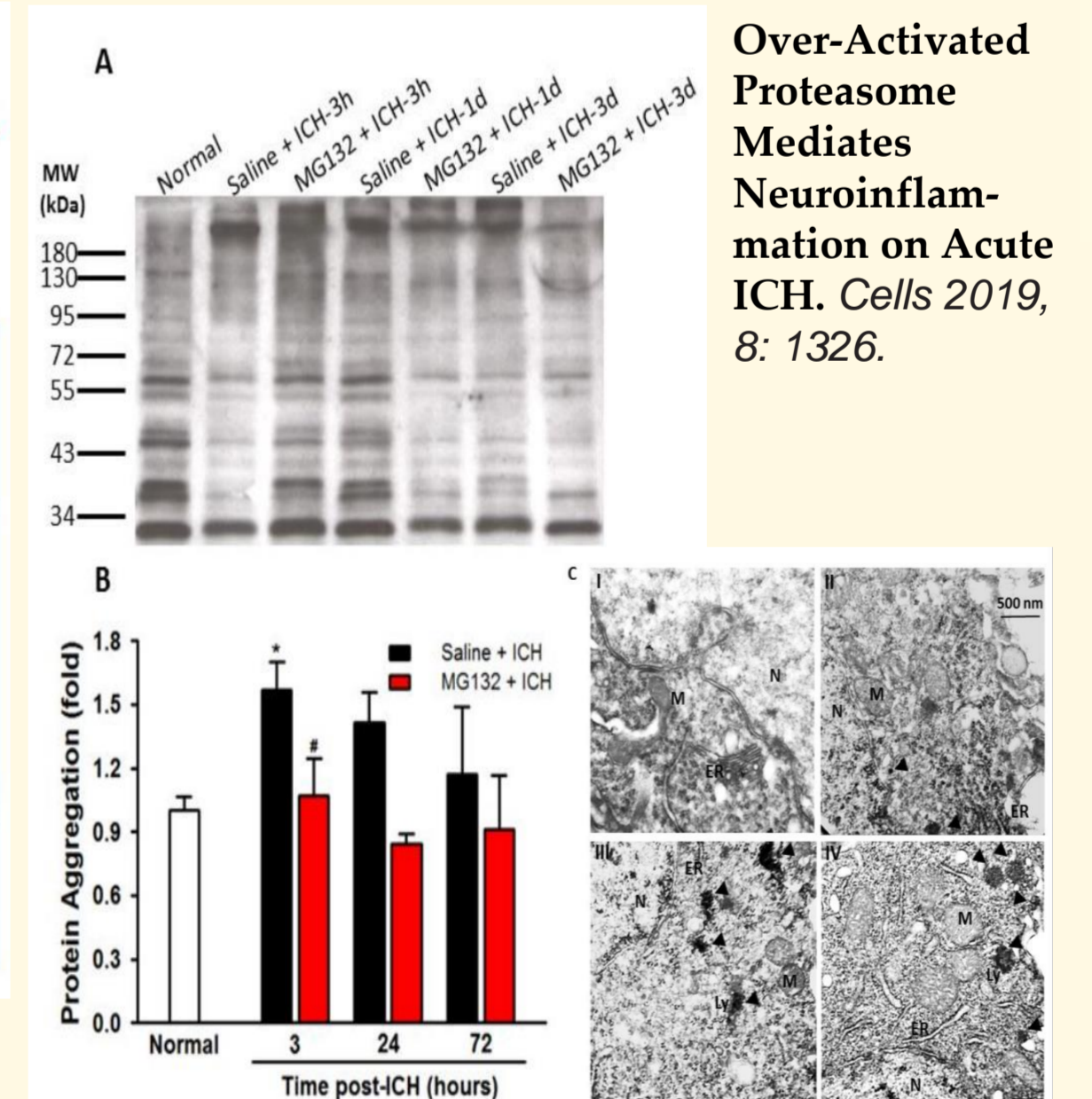
RotaRod



Heatmaps representing the differential expression profiles in pairwise comparisons of transcriptomic data: Normal (N) vs. ICH (I) animal. *Biomolecules* 2024, 14: 678.



Moderate Ethanol Pre-treatment Mitigates ICH-Induced Injury via ER Stress Modulation in Rats. *Front. Mol. Neurosci.* 2021, 14: 682775.



Over-Activated Proteasome Mediates Neuroinflammation on Acute ICH. *Cells* 2019, 8: 1326.

Recent publications related to regenerative medicine (5-year):

- Examining Transcriptomic Alterations in Rat Models of Intracerebral Hemorrhage and Severe Intracerebral Hemorrhage. *Biomolecules*, 14: 678 (2024).
- Influence of Alcohol on Intracerebral Hemorrhage: From Oxidative Stress to Glial Cell Activation. *Life* 14: 311 (2024).
- Augmenting hematoma-scavenging capacity of innate immune cells by CDFN reduces brain injury and promotes functional recovery after intracerebral hemorrhage. *Cell Death & Disease*, 14: 128 (2023).
- Experimental animal models and evaluation techniques in intracerebral hemorrhage. *Tzu Chi Medical Journal*, 35: 1-10 (2023).
- Equilibrative Nucleoside Transporter 1 is a Target to Modulate Neuroinflammation and Improve Functional Recovery in Mice with Spinal Cord Injury. *Molecular Neurobiology*, 60: 369-381 (2023).
- Moderate ethanol pre-treatment mitigates ICH-induced injury via ER stress modulation in rats. *Frontiers in Molecular Neuroscience*, 14: 682775 (2021).
- Anti-inflammatory effects of powdered product of Bu Yang Huan Wu decoction: possible role in protecting against transient focal cerebral ischemia. *International Journal of Medical Sciences*, 17: 1854 (2020).
- The role of urocortins in intracerebral hemorrhage. *Biomolecules*, 10: 96 (2020).
- Over-activated proteasome mediates neuroinflammation on acute intracerebral hemorrhage in rats. *Cells*, 8: 1326 (2019).
- G-CSF enhances the therapeutic potency of stem cells transplantation in spinal cord-injured rats. *Regenerative Medicine*, 14: 571-583 (2019).