

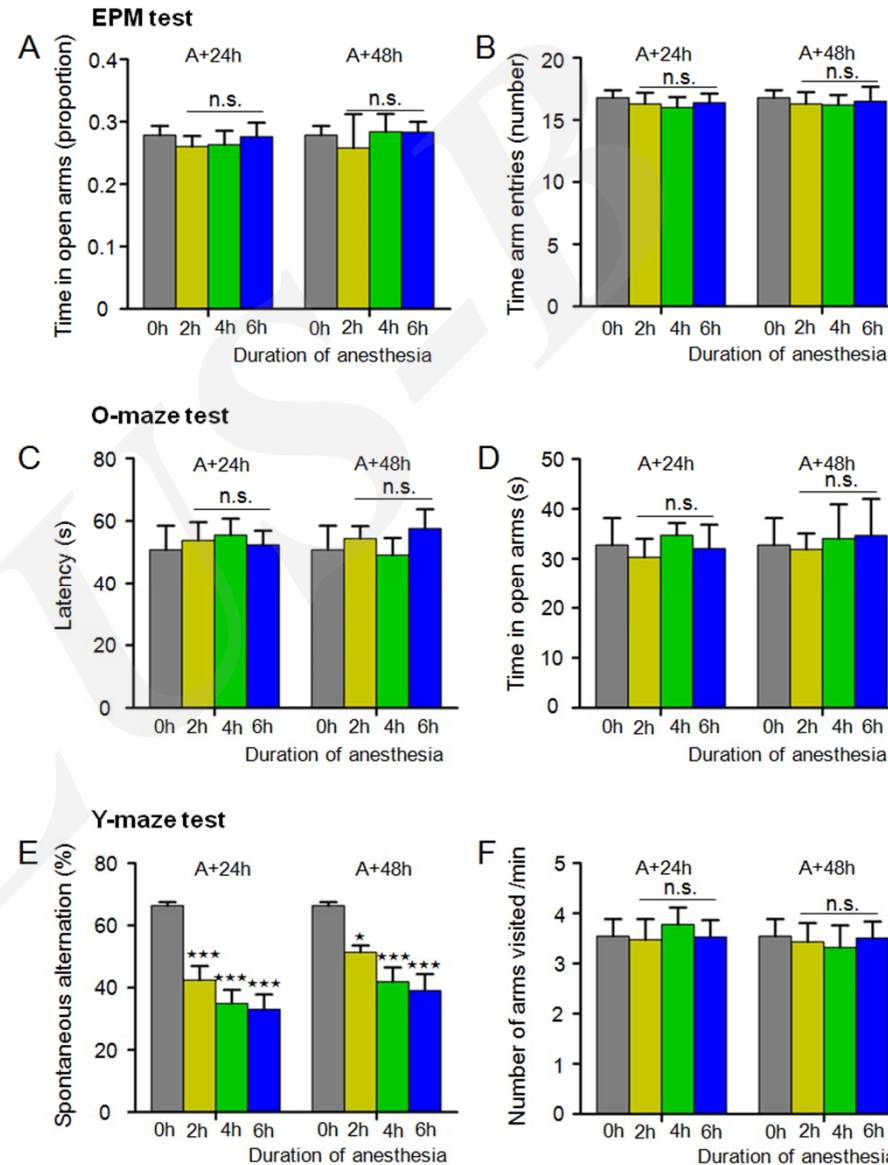
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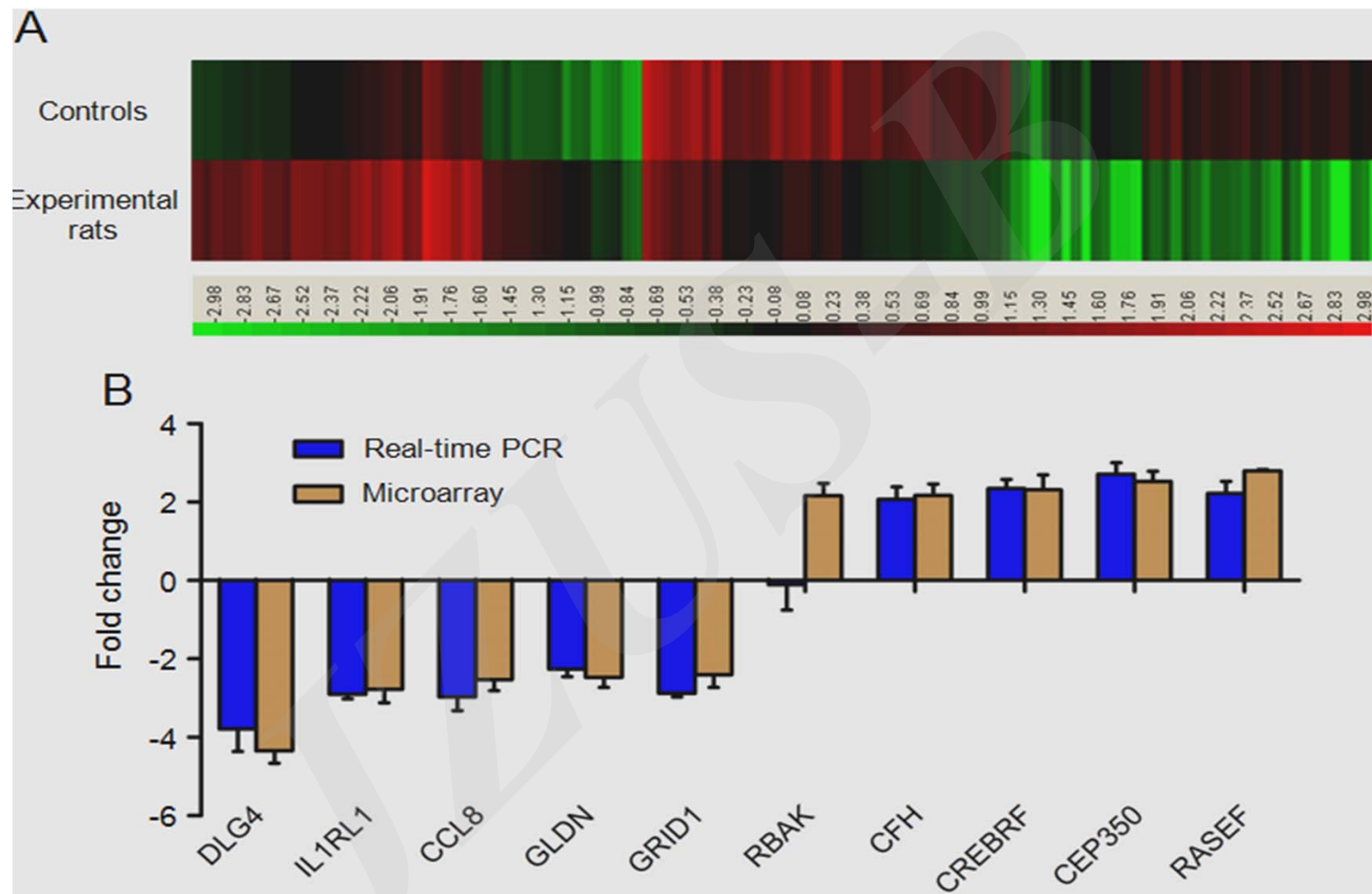
**Decreased *PSD95* expression in medial prefrontal cortex (mPFC) was associated with cognitive impairment induced by sevoflurane anesthesia**

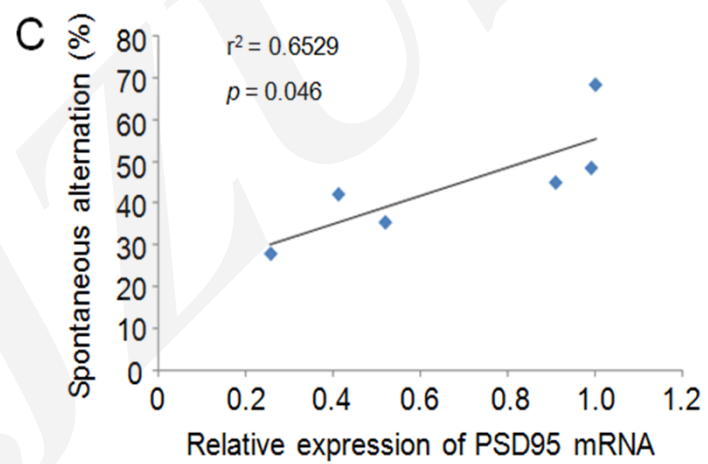
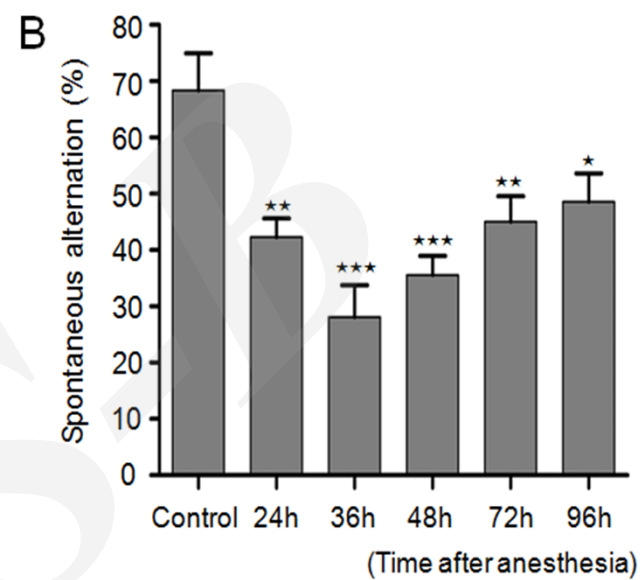
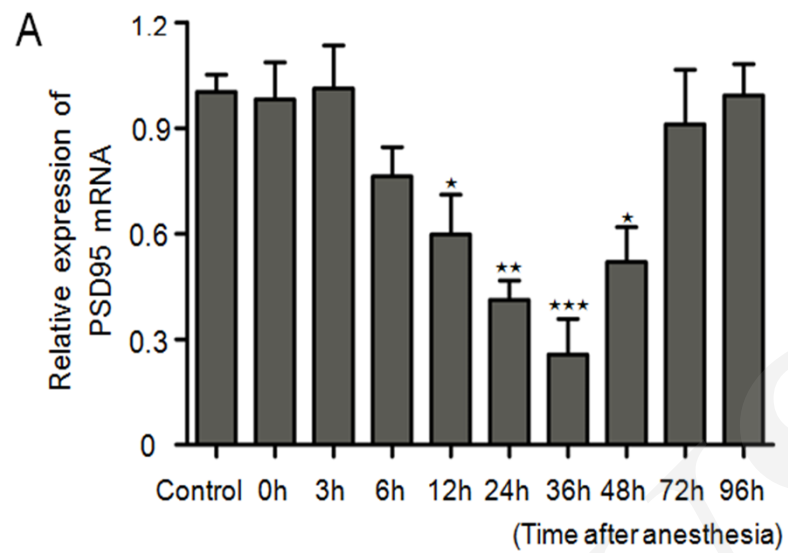
**Key words:** Sevoflurane, Cognitive dysfunction, *PSD95*

# Research Summary

This study aimed to identify dysregulated gene expression in medial prefrontal cortex (mPFC) and investigate the underlying mechanisms involved in postoperative cognitive dysfunction (POCD) after exposure to sevoflurane.







## *Innovation points*

Behavioral tests, including elevated plus-maze, O-maze and Y-maze tests, were performed on Wistar rats.

This is the first study to investigate the aberrant gene expression in mPFC as a result of exposure to sevoflurane.

This study could provide clues for preventing POCD in clinical operations.