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Effect of tube feeding on hippocampal-dependent memory in SAMP1 mice

Yoshie Nishida¹⁾, Mitsuo Iinuma¹⁾, Yasuo Tamura¹⁾, Kin-ya Kubo²⁾ and Fumihiko Iwaku²⁾

1) Department of Pediatric Dentistry, Division of Oral Structure, Function and Development, Asahi University School of Dentistry

2) Department of Oral Anatomy, Division of Oral Structure, Function and Development, Asahi University School of Dentistry

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Abstract This study examined the effect of tube feeding on hippocampal Fos induction and spatial performance in a water maze task in senescence-accelerated mice (SAMP1). Tube feeding accelerated the age-related decline in spatial memory and decreased Fos induction in the hippocampal CA1 region in aged SAMP1 mice. The results suggest that tube feeding in aged SAMP1 mice reduces input activity in the hippocampus, thereby leading to senile memory deficits.

Key words Fos, Hippocampus, SAMP1, Spatial memory, Tube feeding

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