Adult-born neurons in memory consolidation during sleep

睡眠中の記憶固定化と成体の新生ニューロン

New neurons are constantly being generated in the adult hippocampus of mammals, including humans. It is known that sleep influences adult-neurogenesis and memory consolidation. Therefore, the adult-born neurons may play an important role in the mechanism of memory consolidation during sleep. However, the function of the adult-born neurons’ activation during sleep in memory consolidation is unknown. Through optogenetic, connectomic and genomic approaches, we have found that activities of a particular age group of the adult-born neurons are necessary for memory consolidation at a specific stage of sleep. This study hopes to reveal the mechanism of memory consolidation during sleep.

Speaker

坂口 昌徳 博士
(Masanori Sakaguchi M.D., Ph.D.)
筑波大学 国際統合睡眠医科学研究機構
独立准教授
(Associate Professor, International Institute for Integrative Sleep Medicine (WPI-IIIS), University of Tsukuba)

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Venue

医学部6号館 カンファレンス室1（6号館1階）
（星陵キャンパス）
Conference Room No.1,
School of Medicine Building 6 1F, Seiryo Campus
http://www.med.tohoku.ac.jp/access/index.html