

## 発表論文

1. Noda, M. et al. (1984) Primary structure of *Electrophorus electricus* sodium channel deduced from cDNA sequence. **Nature** 312, 121-127.
2. Noda, M. et al. (1986) Existence of distinct sodium channel messenger RNAs in rat brain. **Nature** 320, 188-192.
3. Noda, M. et al. (1986) Expression of functional sodium channels from cloned cDNA. **Nature** 322, 826-828.
4. Noda, M. et al. (1989) Structural parts involved in activation and inactivation of the sodium channel. **Nature** 339, 597-603.
5. Noda, M. et al. (1989) A single point mutation confers tetrodotoxin and saxitoxin insensitivity on the sodium channel II. **FEBS Lett.** 259, 213-216.
6. \*Noda, M. (1993) Structure and function of sodium channels. **Ann. N. Y. Acad. Sci.** 707, 20-37.
7. Goldin, A. L., Noda, M. et al. (2000) Nomenclature of voltage-gated sodium channels. **Neuron** 28, 365-368.
8. Watanabae, E., Fujikawa, A., Matsunaga, H., Yasoshima, Y., Sako, N., Yamamoto, T., Saegusa, C., & \*Noda, M. (2000) Na<sub>v</sub>2/NaG channel (Na<sub>x</sub>) is involved in control of salt intake behavior in the central nervous system. **J. Neurosci.** 20, 7743-7751.
9. Hiyama, T. Y., Watanabe, E., Ono, K., Inenaga, K., Tamkun, M. M., Yoshida, S. & \*Noda, M. (2002) Na<sub>x</sub> channel involved in CNS sodium-level sensing. **Nature Neurosci.** 5, 511-512.
10. Watanabe, E., Hiyama, T. Y., Kodama, R. & \*Noda, M. (2002) Na<sub>x</sub> sodium channel is expressed in non-myelinating Schwann cells and alveolar type II cells in mice. **Neurosci. Lett.** 330, 109-113.
11. Hiyama, T. Y., Watanabe, E., Okado, H. & \*Noda, M. (2004) The subfornical organ is the primary locus of sodium-level sensing by Na<sub>x</sub> sodium channels for the control of salt-intake behavior. **J. Neurosci.** 24, 9276-9281.
12. \*Noda, M. & Hiyama, T. Y. (2005) Sodium-level-sensitive sodium channel and salt-intake behavior. **Chem. Senses** 30 (Supple. 1), i44-i45.
13. \*Noda, M. (2006) The subfornical organ, a specialized sodium channel, and the sensing of sodium levels in the brain. **The Neuroscientist** 12, 80-91.
14. \*Noda, M. (2007) Hydromineral neuroendocrinology: Mechanism of sensing sodium levels in the mammalian brain. **Exp. Physiol.** 92, 513-522.
15. Hiyama, T.Y., Matsuda, S., Fujikawa, A., Matsumoto, M., Watanabe, E., Kajiwarra, H., Niimura, F., & \*Noda, M. (2010) Autoimmunity to the sodium-level sensor in the brain causes essential hyponatremia. **Neuron** 66, 508-522.
16. Matsumoto, M., Fujikawa, A., Suzuki, R., Shimizu, H., Kuboyama, K., Hiyama, T.Y., Hall, R.A., & \*Noda, M. (2012) SAP97 promotes the stability of Na<sub>x</sub> channels at the plasma membrane. **FEBS Lett.** 586, 3805-3812.
17. Hiyama, T.Y., Yoshida, M., Matsumoto, M., Suzuki, R., Matsuda, T., Watanabe, E., & \*Noda, M. (2013) Endothelin-3 expression in the subfornical organ enhances the sensitivity of Na<sub>x</sub>, the brain sodium-level sensor, to suppress salt intake. **Cell Metab.** 17, 507-519.
18. \*Noda, M. & Sakuta, H. (2013) Central regulation of body-fluid homeostasis. **Trends Neurosci.** 36, 661-673.
19. \*Noda, M. & Hiyama, T.Y. (2015) The Na<sub>x</sub> channel: What it is and what it does. **The Neuroscientist** 21, 399-412.
20. \*Noda, M. & Hiyama, T.Y. (2015) Sodium sensing in the brain. **Pflügers Arch. – Eur. J. Physiol.** 467, 465-474.
21. Hiyama, T.Y., Utsunomiya, A.N., Matsumoto, M., Fujikawa, A., Lin, C.-H., Hara, K., Kagawa, R., Okada, S., Kobayashi, M., Ishikawa, M., Anzo, M., Cho, H., Takayasu, S., Nigawara, T., Daimon, M., Sato, T., Terui, K., Ito, E., & \*Noda, M. (2017) Adipsic hyponatremia without hypothalamic lesions accompanied by autoantibodies to subfornical organ. **Brain Pathol.** 27, 323-331.
22. Matsuda, T., Hiyama, T.Y., Niimura, F., Matsusaka, T., Fukamizu, A., Kobayashi, K., Kobayashi, K., & \*Noda, M. (2017) Distinct neural mechanisms for the control of thirst and salt appetite in the subfornical organ. **Nat. Neurosci.** 20, 230-241.