

主な研究課題・発表代表論文

神経解剖学講座（旧解剖学第二講座）Neuroanatomy

研究領域 高次神経科学

教授 篠田 晃 Koh Shinoda

主な研究課題

- ・ 斑点小体stigmoid bodyの構造と機能
- ・ 神経変性疾患と細胞周期関連タンパク質の発現と機能
- ・ ステロイドとモノアミンの脳内作用形態
- ・ 辺縁系と嗅覚系を中心とした情動機能

発表代表論文

- 1) Islam MN, Shinoda K. .et al : Mapping of STB/HAP1 immunoreactivity in the mouse brainstem and its relationships with choline acetyltransferase, with special emphasis on cranial nerve motor and preganglionic autonomic nuclei. Neuroscience (2022) 499: 40–63
- 2) Usui N, Shinoda K, .et al : Length impairments of the axon initial segment in rodent models of attention-deficit hyperactivity disorder and autism spectrum disorder. Neurochem International. (2022) Feb;153:105273. doi:10.1016/j.neuint. 2021.105273. Epub 2021 Dec 28.PMID: 34971749
- 3) Tarif AMM, Shinoda K.et al : Immunohistochemical expression and neurochemical phenotypes of huntingtin-associated protein 1 in the myenteric plexus of mouse gastrointestinal tract. Cell Tiss Res (2021), 386:533-558.
- 4) Islam MN, Shinoda K.et al : Androgen Affects the Inhibitory Avoidance Memory by Primarily Acting on Androgen Receptor in the Brain in Adolescent Male Rats. Brain Sciences. (2021) 11(2):239. doi: <https://doi.org/10.3390/brainsci11020239>.
- 5) Matsumura T, Shinoda K, et al.: Liver-specific dysregulation of clock-controlled output signal impairs energy metabolism in liver and muscle. Biochemical and biophysical research communications (2021) 534:415-421, 10.1016/j.bbrc.2020.11.066
- 6) Usui N, Shinoda K, .et al : Si-Based Hydrogen-Producing Nanoagent Protects Fetuses From Miscarriage Caused by Mother-to-Child Transmission. Front Med Technol. (2021) May 13;3:665506. doi: 10.3389/fmedt.2021.665506. eCollection 2021.PMID: 35047922
- 7) Yanai A, Shinoda K.et al : Immunohistochemical relationships of Huntingtin-associated protein 1 with enteroendocrine cells in the pyloric mucosa of the rat stomach. Acta Histochem. (2020) 122(8):151650. doi: 10.1016/j.acthis.2020.151650. Epub 2020 Nov 6.
- 8) Islam MN, Shinoda K.et al : Expression of huntingtin-associated protein 1 in adult mouse

dorsal root ganglia and its neurochemical characterization in reference to sensory neuron subpopulations. *IBRO Reports* (2020).9:258-269.

- 9) Islam MN, Shinoda K. et al : Androgen Affects the Dynamics of Intrinsic Plasticity of Pyramidal Neurons in the CA1 Hippocampal Subfield in Adolescent Male Rats. *Neuroscience* 440 : 15-29.(2020)
- 10) Wroblewski G, Shinoda K et al : Distribution of HAP1-immunoreactive cells in the retrosplenial-retrohippocampal area of adult rat brain and its application to a refined neuroanatomical understanding of the region. *Neuroscience* 394 : 109-126. (2018)
- 11) Islam MN, Shinoda K et al : Immunohistochemical analysis of huntingtin-associated protein 1 in adult rat spinal cord and its regional relationship with androgen receptor. *Neuroscience* 340 : 201-217. (2017)
- 12) Jahan MR, Shinoda K et al : Species differences in androgen receptor expression in the medial preoptic and anterior hypothalamic areas of adult male and female rodents. *Neuroscience* 284 : 943-961. (2015)
- 13) Islam MN, Shinoda K et al : Characterization of the "sporadically lurking HAP1-immunoreactive (SLH) cells" in the hippocampus, with special reference to the expression of steroid receptors, GABA, and progenitor cell markers. *Neuroscience*.210 : 67-81. (2012)
- 14) Fujinaga R, Shinoda K et al : Intracellular colocalization of HAP1/STBs with steroid hormone receptors and its enhancement by a proteasome inhibitor. *Exp Cell Res*.317 : 1689-1700. (2011)
- 15) Zhao C, Shinoda K et al : Region-specific expression and sex-steroidal regulation on aromatase and its mRNA in the male rat brain : Immunohistochemical and in situ hybridization analyses *J Comp Neurol*. 500 (3) : 557-573. (2007)
- 16) Takeshita Y, Shinoda K et al : Huntingtin-associated protein 1 (HAP1) interacts with androgen receptor (AR) and suppresses SBMA- mutant-AR-induced apoptosis. *Hum Mol Genet*.15 (15) : 2298-2312. (2006)
- 17) Fujinaga, R., K. Shinoda et al : Neuroanatomical distribution of Huntingtin-associated protein 1 (Hap1) -mRNA in the Male mouse brain. *J. Comp. Neurol*. 478: 88-109. (2004)
- 18) Shinoda, K. et al : Developmental defects of the ventromedial hypothalamic nucleus and pituitary gonadotroph in the Ftz-F1 disrupted mice. *Dev. Dynam*. 204 : 22-29. (1995)
- 19) Shinoda, K. et al : Neuronal aromatase expression in preoptic, strial and amygdaloid regions during late prenatal and early postnatal development in the rat. *J. Comp. Neurol*. 343 : 113-129. (1994)
- 20) Shinoda, K. et al : An aromatase-associated cytoplasmic inclusion, the "stigmoid body", in the rat brain.: II. Ultrastructure (with a review of its history and nomenclature). *J. Comp. Neurol*. 329:1-19. (1993)
- 21) Shinoda, K. et al : "Necklace olfactory glomeruli" form unique components of the rat primary olfactory system. *J. Comp. Neurol*. 284:362-373. (1989)