

# 教 員 名 簿

## 附属臨海実験所

部門・職名	氏 名	専 門 分 野
海洋生物学		
教 授	坂 本 竜 哉	海洋生物学
准 教 授	坂 本 浩 隆	神経内分泌学
助 教	秋 山 貞	行動生物学
助教（特任）	小 林 靖 尚	魚類生殖生理学
助教（特任）	筒 井 直 昭	甲殻類内分泌学

## 論文等

T. Sakamoto, Y. Nishiyama, A. Ikeda, H. Takahashi, S. Hyodo, N. Kagawa, H. Sakamoto  
Neurohypophysial hormones regulate the amphibious behavior in the mudskipper goby  
PLoS ONE 10 (2015) e0134605: 1-16

T. Sakamoto, S. Ogawa, Y. Nishiyama, C. Akada, H. Takahashi, T. Watanabe, H. Minakata, H. Sakamoto  
Osmotic/ionic status of body fluids in the euryhaline cephalopod suggest parallel evolution of osmoregulation  
Scientific Reports 5 (2015) 14469: 1-11

Y. Takihara, M. Inatani, K. Eto, T. Inoue, K. Iwao, A. Kreymerman, S. Miyake, S. Ueno, M. Nagaya, A. Nakanishi, K. Iwao, Y. Takamura, H. Sakamoto, K. Satoh, M. Kondo, T. Sakamoto, J.F. Goldberg, J. Nabekura, H. Tanihara  
*In vivo* imaging of mitochondrial axonal transport in the diseased and aged mammalian CNS  
Proceedings of the National Academy of Sciences of the USA 112 (2015) 10515-10520

K. Satoh<sup>†</sup>, K. Takanami<sup>†</sup>, K. Murata, M. Kawata, T. Sakamoto, H. Sakamoto  
Effective *synaptome* analysis of itch-mediating neurons in the spinal cord: a novel immunohistochemical methodology using high-voltage electron microscopy  
Neuroscience Letters 599 (2015) 86-91

<sup>†</sup>These authors contributed equally to this work

K. Satoh<sup>†</sup>, K. Takanami<sup>†</sup>, K. Murata, M. Kawata, T. Sakamoto, H. Sakamoto  
Three-dimensional visualization of multiple synapses in thick sections using high-voltage electron microscopy in the rat spinal cord  
Data in Brief 4 (2015) 566-570

<sup>†</sup>These authors contributed equally to this work

K. Satoh, T. Oti, A. Katoh, Y. Ueta, J.F. Morris, T. Sakamoto, H. Sakamoto  
*In vivo* processing and release into the circulation of GFP-fusion protein in arginine vasopressin-enhanced GFP transgenic rats: response to osmotic stimulation  
The FEBS Journal 282 (2015) 2488-2499

Y. Kobayashi, T. Mototani, F. Murayama, T. Sakamoto  
Basic reproductive biology of daggertooth pike conger, *Muraenesox cinereus*: A possible model for oogenesis in Anguilliformes  
Zoological Letters. 1 (2015), 1-7

T. Sakamoto  
Hormonal Regulation of Body Fluid in Teleost Fishes  
Bulletin of the Society of Sea Water Science, Japan. 69 (2015), 244-246

M. Ogoshi, K. Kato, T. Sakamoto  
Effect of environmental salinity on expression of adrenomedullin genes suggests osmoregulatory activity in the medaka, *Oryzias latipes*  
Zoological Letters. 1 (2015), 12

T. Sakamoto, Y. Katayama, Y. Kobayashi, K. Saito, Y. Takei  
Mudskipper to general behavioral neuroendocrinology  
Nippon Suisan Gakkaishi. 81 (2015) 868-868

T. Oti, K. Takanami, N. Katayama, T. Edey, K. Satoh, T. Sakamoto, H. Sakamoto

Perinatal testosterone exposure is critical for the development of the male-specific sexually dimorphic gastrin-releasing peptide system in the lumbosacral spinal cord that mediates erection and ejaculation

Biology of Sex Differences 7 (2016) 1-10

N. Katayama., T. Oti, K. Takanami, T. Sakamoto, H. Sakamoto

Postnatal development of the gastrin-releasing peptide system in the lumbosacral spinal cord controlling male reproductive function in rats

Proceedings of the Japan Academy, Series B 92 (2016) 69-75

H. Sakamoto, T. Oti

Oxytocin and the GRP system in the spinal cord: Implications for male sexual problems

Interdisciplinary Information Sciences 21 (2015) 235-242

M. Fukushima, S. Kotaka, N. Tsutsui, K. Asahina, S. Izumi, T. Ohira.

Isolation of crustacean hyperglycemic hormone-family peptides with vitellogenesis-inhibiting activity from the shiba shrimp *Metapenaeus joyneri*

Fisheries Science 81 (2015) 65-72

W. Thongda, J.S. Chung, N. Tsutsui, N. Zmora, A. Katenta.

Seasonal variations in reproductive activity of the blue crab, *Callinectes sapidus*: Vitellogenin expression and levels of vitellogenin in the hemolymph during ovarian development.

Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology 179 (2015) 35-43

H. Ushimi, Y. Miyatake, N. Tsutsui, T. Sakamoto, K. Nakata.

Artificial burrow sizes used for capturing the North American invasive crayfish *Procambarus clarkii*.

Ecology and Civil Engineering 18 (2015) 79-86

K Takayanagi, M Yoshida, A Takashima, K. Takanami, S Yoshida, K Nishimori, I Nishijima, H Sakamoto, T Yamagata, T Onaka

Activation of supraoptic oxytocin neurons by secretin facilitates social recognition

Biological Psychiatry, 2015; pii: S0006-3223(15)00998-1

K. Nakamura, T. Akiyama

*Cheilopallene ogasawarensis*, a new species of shallow-water pycnogonid (Arthropoda:

Pycnogonida) from the Ogasawara (Bonin) Islands, Japan

Zootaxa 3995 (2015) 58-61

## 書籍等

H. Sakamoto

Gastrin-releasing peptide

In Handbook of Hormones: Comparative and General Endocrinology. Edited by Y. Takei, H.

Ando, K. Tsutsui, pp 191-192, Elsevier

N. Tsutsui.

Ion Transport Peptide.

In Handbook of Hormones: Comparative and General Endocrinology. (Eds. Y. Takei, H. Ando,

K. Tsutsui), pp 405-406, Elsevier

## 講演等

H. Sakamoto

'Volume transmission' role of oxytocin in the regulation of the male sexual function in the spinal cord

The International Symposium; Parvo- and Magnocellular Symposium in Sendai. 2015 Sep 17; Sendai (招待講演)

高浪 景子, 坂本 浩隆, 宮崎 直幸, 村田 和義, 佐藤 慧太, 坂本 竜哉, 河田 光博  
SEM 解析への免疫電顕法の応用—痒み伝達シナプスの構造解析—  
第3回SEM連続断面観察による生物組織三次元再構築法研究部会, 甲州 2015 (招待講演)

坂本 浩隆

雄の性行動調節機構におけるオキシトシンの作用

第120回日本解剖学会総会・全国学術集会／第92回日本生理学会大会 合同大会 公募  
シンポジウム 「オキシトシンの脳内作用：研究の最前線と今後の展望」, 神戸 2015 (招待講演)

坂本 浩隆

神経ペプチド・ホルモン分子の進化と機能 行動制御モデルとしてのスルクス

第4回実験動物科学シンポジウム 新たな疾患モデル動物が切り開く橋渡し研究, 岡山  
2015 (招待講演)

K. Takanami, K. Satoh, N. Miyazaki, K. Murata, M. Kawata, T. Sakamoto, H. Sakamoto  
Effective ultrastructure neuroimaging of itch.

The 8<sup>th</sup> World Congress on Itch. 2015, Nara

高浪景子, 佐藤慧太, 村田和義, 河田光博, 坂本竜哉, 坂本浩隆

Tomography visualization of multiple synapses in thick sections using high-voltage electron  
microscopy in the rat sensory neurons

SSSEM 研究部会／生理研研究会, 岡崎, 2015

佐藤慧太, 高浪景子, 宮崎直幸, 村田和義, 坂本竜哉, 坂本浩隆

三次元電顕技法を用いて開口分泌を捉える試み

SSSEM 研究部会／生理研研究会, 岡崎, 2015.

坂本浩隆, 佐藤慧太, 高浪景子, 村田和義, 河田光博, 坂本竜哉

医学・生物学分野における超高压電子顕微鏡・トモグラフィー法の再考: A revisiting study  
for 3D-EM

第56回日本組織細胞化学会 総会・学術集会, 枚方, 2015

高浪景子, 坂本浩隆, 宮崎直幸, 村田和義, 佐藤慧太, 坂本竜哉, 河田光博

脊髄における痒み伝達神経ネットワークの微細構造解析

第120回日本解剖学会総会・全国学術集会・第92回日本生理学会大会合同大会, 神戸,

2015