

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）	御 興 真 穂*1)	比較内分泌学
助教（特任）	高 橋 英 也	魚類生理遺伝学
助教（特任）	小 林 靖 尚*2)	魚類生殖生理学
助教（特任）	筒 井 直 昭*2)	甲殻類内分泌学

(注)

*1) 平成24年 4月 1日着任

*2) 平成24年 6月 1日着任

論文等

- M. Ogoshi, K. Kato, H. Takahashi, T. Ikeuchi, T. Abe, T. Sakamoto
Growth, energetics and the cortisol-hepatic glucocorticoid receptor axis of medaka (*Oryzias latipes*) in various salinities.
General and Comparative Endocrinology 178 (2012) 175-179.
- T. Oti, K. Satoh, K. Saito, K. Murata, M. Kawata, T. Sakamoto, H. Sakamoto
Three-dimensional evaluation of the spinal local neural network revealed by the high-voltage electron microscopy: a double immunohistochemical study.
Histochemistry and Cell Biology 138 (2012) 693–697.
- A. Yoshida, T. Morihara, K.-I. Matsuda, H. Sakamoto, Y. Arai, Y. Kida, M. Kawata, T. Kubo
Immunohistochemical analysis of effects of estrogen on intraarticular neurogenic inflammation in a rat anterior cruciate ligament transection model of osteoarthritis.
Connective Tissue Research 53, 197–206 (2012).
- N. Itoki, T. Sakamoto, M. Hayashi, T. Takeda, A. Ishimatsu
Morphological responses of mitochondria-rich cells to hypersaline environment in the Australian mudskipper, *Periophthalmus minutus*.
Zoological Science 29 (2012) 444-449.
- K. Omori, S. Wada, Y. Maruyama, A. Hattori, K. Kitamura, Y. Sato, M. Nara, H. Funahashi, K. Yachiguchi, K. Hayakawa, M. Endo, R. Kusakari, S. Yano, A.K. Srivastav, T. Kusui, S. Ejiri, W. Chen, Y. Tabuchi, Y. Furusawa, T. Kondo, Y. Sasayama, T. Nishiuchi, M. Nakano, T. Sakamoto, N. Suzuki
Prostaglandin e(2) increases both osteoblastic and osteoclastic activity in the scales and participates in calcium metabolism in goldfish.
Zoological Science 29 (2012) 499-504.
- N. Suzuki, T. Sekiguchi, H. Satake, K. Kato, Y. Nishiyama, H. Takahashi, J.A. Danks, T.J. Martin, A. Hattori, M. Nakano, M. Kakikawa, S. Yamada, M. Ogoshi, S. Hyodo, Y. Yamaguchi, V.S. Chowdhury, K. Hayakawa, H. Funahashi, T. Sakamoto, Y. Sasayama
Cloning of two members of the calcitonin-family receptors from stingray, *Dasyatis akajei*: Possible physiological roles of the calcitonin family in osmoregulation.
Gene. 499 (2012) 326-331.
- T. Nanba, H. Takahashi, T. Abe, W. Godo, M. Ogoshi, H. Sakamoto, N. Tsutsui, T. Sakamoto
Hemolymph osmotic, ionic status and branchial Na⁺/K⁺-ATPase activity under varying environmental conditions in the intertidal grapsid crab, *Gaetice depressus*.
International Aquatic Research (2012) in press.
- N. Suzuki, T. Sakamoto
Evolution of calcium homeostasis and its hormonal regulation in vertebrates.
Zoological Science Virtual Issue Theme 2.
- N. Suzuki, T. Sakamoto
Comparative and general aspects of calcium homeostasis and its hormonal regulations.
Zoological Science. Virtual Issue, Evolution of calcium homeostasis and its hormonal regulation in vertebrates.
- H. Takahashi, T. Sakamoto
The role of ‘mineralocorticoids’ in teleost fish: Relative importance of glucocorticoid signaling in the osmoregulation and central actions of mineralocorticoid receptor.
General and Comparative Endocrinology 181 (2013) 223-228.
- S. Yano, K. Kitamura, Y. Satoh, M. Nakano, A. Hattori, T. Sekiguchi, M. Ikegame, H. Nakashima, K. Omori, K. Hayakawa, A. Chiba, Y. Sasayama, S. Ejiri, Y. Mikuni-Takagaki, H. Mishima, H. Funahashi, T.

T. Sakamoto, N. Suzuki

Static and dynamic hypergravity responses of osteoblasts and osteoclasts in medaka scales.
Zoological Science 29 (2013) in press.

H. Sakamoto, K. Satoh and T. Oti

Achieve orgasm? Oxytocin triggers ejaculation in men.
Reproductive System & Sexual Disorders 1 (2012) e101.

H. Sakamoto

Brain–spinal cord neural circuits controlling male sexual function and behavior.
Neuroscience Research 72 (2012) 103–116.

H. Sakamoto, H. Takahashi, K.-I. Matsuda, M. Nishi, K. Takanami, M. Ogoshi, T. Sakamoto, M. Kawata

Rapid signaling of steroid hormones in the vertebrate nervous system.
Frontiers in Bioscience 17 (2012) 996–1019.

H. Sakamoto, M. Kawata

Ultrahigh voltage electron microscopy links neuroanatomy and neuroscience/neuroendocrinology.
Anatomy Research International Article ID: 948704 (2012) 5 pages.

T. Umezawa, A. Kato, M. Ogoshi, K. Ookata, H. Doi, M. F. Romero, S. Hirose

O₂-filled swimbladder employs monocarboxylate transporters for the generation of O₂ by lactate-induced Root effect hemoglobin.
PLoS ONE 7 (2012) e34579.

Y. Kobayashi, T. Usami, T. Sunobe, H. Manabe, Y. Nagahama, M. Nakamura.

Histological observation of the urogenital papillae in the bi-directional sex-changing gobiid fish, *Trimma okinawae*.
Zoological Science 29(2) (2012) 121-126.

R. Murata, Y. Kobayashi, H. Karimata, K. Kishimoto, M. Kimura, A. Shimizu, M. Nakamura.

The role of pituitary gonadotropins in gonadal sex differentiation in the protogynous Malabar grouper, *Epinephelus malabaricus*.
General and Comparative Endocrinology. 178(3)(2012) 587-92.

Y. Kobayashi, Y. Nagahama, M. Nakamura.

Diversity and plasticity of sex determination and differentiation in fishes.
Sexual Development 7(1-3) (2013) 115-25.

R. Nozu, R. Horiguchi, R. Murata, Y. Kobayashi, M. Nakamura.

Survival of ovarian somatic cells during sex change in the protogynous wrasse, *Halichoeres trimaculatus*.
Fish Physiology and Biochemistry 39(1) (2013) 47-51.

R. Horiguchi, R. Nozu, T. Hirai, Y. Kobayashi, Y. Nagahama, M. Nakamura.

Characterization of gonadal soma-derived factor expression during sex change in the protogynous wrasse, *Halichoeres trimaculatus*.
Developmental Dynamics (in press)

N. Tsutsui N., J. S. Chung

A novel putative lipoprotein receptor (CasLpR) in the hemocytes of the blue crab, *Callinectes sapidus*: Cloning and up-regulated expression after the injection of LPS and LTA.
Fish and Shellfish Immunology 32 (2012) 469-475.

S. H. Bae, B. R. Kim, B. J. Kang., N. Tsutsui, T. Okutsu, J. Shinji, C. H. Han, M. N. Wilder

Molecular cloning of prophenoloxidase and the effects of dietary β -glucan and rutin on immune response in hemocytes of the fleshy shrimp, *Fenneropenaeus chinensis*.
Fish and Shellfish Immunology 33 (2012) 597-604.

J. Shinji, B. J. Kang, T. Okutsu, K. Banzai, T. Ohira, N. Tsutsui, M. N. Wilder
Changes in crustacean hyperglycemic hormones in Pacific whiteleg shrimp *Litopenaeus vannamei*
subjected to air-exposure and low-salinity stresses.
Fisheries Science 78 (2012) 833-840.

K. Miyabe, H. Tokunaga, H. Endo, H. Inoue, M. Suzuki, N. Tsutsui., N. Yokoo, T. Kogure, H. Nagasawa
GSP-37, a novel goldfish scale matrix protein: identification, localization and functional analysis.
Faraday Discussion 159 (2012) 463-481.

T. Akiyama, S. Gamô
The cumacean genus *Eudorella* (Cumacea: Peracarida) from Japanese waters, Northwest Pacific, and *E. suluensis* sp. nov. from the Sulu Sea, Indo-West Pacific.
Zootaxa 3319 (2012) 1-56.

T. Akiyama, S. Gerken
The cumacean (Crustacea: Peracarida) genus *Petalosarsia* (Pseudocumatidae) from the Pacific Ocean.
Zootaxa 3320 (2012) 1-35

T. Akiyama
Two new species of *Atlantocuma* (Crustacea: Cumacea), and a new genus and species from Japan,
Northwest Pacific, with observations on the degeneration of mouthparts in ovigerous females.
Zootaxa 3400 (2012) 20-42.

書籍等

H. Takahashi, H. Kudose, C. Takagi, S. Moriyama, T. Sakamoto
In vitro effects of the prolactin, growth hormone and somatolactin on cell turnover in fish esophagus:
possible mode of opposite osmoregulatory actions of prolactin and growth hormone.
In: Prolactin, B.E. Toth (ed.) InTech (2012) in press..

坂本浩隆、株式会社クバプロ
「雄の性機能をつかさどる脳-脊髄神経回路の解明」
in ブレインサイエンス・レビュー2013、2013年2月、pp 83-101 (186ページ中) .

小林靖尚
魚類の行動と性転換 (生理学的側面) .
水産学シリーズ「魚類の行動研究と水産資源管理」棟方有宗・小林牧人・有元貴文編、恒星社厚
生閣 (in press).

講演等

H. Takahashi, T. Sakamoto
Updated functions of glucocorticoid and mineralocorticoid in teleost fish.
Edwin W. Pauley Summer Program in Marine Biology “Integrative, Experimental and environmental
physiology of marine organisms”, 2012. 国際シンポジウム招待講演

H. Takahashi, T. Sakamoto
Mineralocorticoid may not be “mineralocorticoid” in fish.
7th Asia and Oceania Society for Comparative Endocrinology Congress, 2012. [The most impressive
researches] 国際学会招待講演

H. Sakamoto
Regulation of male sexual functions by oxytocin-mediated volume transmission in the spinal cord
The 2012 Edwin W. Pauley Summer Program in Marine Biology “Integrative, Experimental and

environmental physiology of marine organisms”

Hawaii Institute of Marine Biology, University of Hawaii, Hawaii, USA, July 26–27, 2012

H. Sakamoto

Regulation of male sexual functions by oxytocin-mediated volume transmission in the lumbar spinal cord
International Symposium: Frontiers in Biologically Active Peptide Research

-The 3rd Meeting of the Japan Branch of International Neuropeptide Society (INPS)- “New aspects of hypothalamo-pituitary function” West Japan Industry and Trade Convention Association, Kitakyushu, Fukuoka, Japan, September 29, 2012

筒井直昭

眼柄ホルモンによるエビ類の卵黄形成の制御

日本動物学会中国四国支部岡山県例会、岡山、2012年7月19日