

**List of Papers by the staff of the Graduate School of Biosphere Science,
Hiroshima University, published during January to December, 2008**

広島大学大学院生物圏科学研究科教員業績目録

(2008年1月 - 12月)

Animal Science 陸域動物生産学講座

- Tadano, R., **Nishibori, M.**, Imamura, Y., Matsuzaki, M., Kinoshita, K., Mizutani, M., Namikawa, T., **Tsudzuki M.**, 2008. High genetic divergence in miniature breeds of Japanese native chickens compared to Red Junglefowl, as revealed by microsatellite analysis. *Anim. Genet.* **39**: 71-78.
- Tadano, R., Imamura, Y., Matsuzaki, M., **Nishibori, M.**, **Tsudzuki, M.**, 2008. Evaluation of a reduction in the effective population size for a rare Japanese native chicken breed, the Kurekodori. *Anim. Genet.* **39**: 457-458.
- Tadano, R., **Nishibori, M.**, **Tsudzuki, M.**, 2008. High accuracy of genetic discrimination among chicken lines obtained through an individual assignment test. *Anim. Genet.* **39**: 567-571.
- 都築政起 . 2008 . 現代版「日本鶏の歴史」. *日本鶏* **48**: 47-58.
- Tsudzuki, M.**, 2008. Mutations of Japanese quail (*Coturnix japonica*) and recent advances of molecular genetics for this species. *J. Poult. Sci.* **45**: 159-179.
- 都築政起 . 2008 . ウズラ(*Coturnix japonica*)の突然変異研究70年 . *動物遺伝育種研究* **36**: 137-155.
- 西堀正英・山本義雄 . 2008 . 鳥類の羽色多型 (ニワトリの家畜化および在来鶏, 愛玩鶏への品種分化解析の手がかりとしての羽色変異) . *遺伝* . **62**: 52-59.
- 岡 孝夫・井野靖子・野村こう・花田博文・天野卓・山内克彦・小林雄治・泉田和子・西堀正英・山本義雄・秋篠宮文人 . 2008 . マイクロサテライトDNA多型による会津地鶏の遺伝的多様性と遺伝的位置 . *日本家禽学会誌* . **45**: J61-J65.
- Ghanem, M.E., **Nishibori, M.**, 2008. Genetic Description of Factor XI Deficiency in Holstein Semen in Western Japan. *Reprod. Domest. Anim.* Sep 10. [Epub ahead of print]
- Ghanem, M.E., **Nishibori, M.**, 2008. Autosomal recessive genes in dairy cow 's reproduction; incidence, consequences and future perspectives. *J. Anim. Genet.* **36**: 53-61.
- Ghanem, M.E., **Nishibori, M.**, 2008. Ovarian Cyclicity and Reproductive Performance of Holstein Cows Carrying the Mutation of Complex Vertebral Malformation in Japan. *Reprod. Domest. Anim.* **43**:346-50.
- Ghanem, M.E., Akita, M., Suzuki, T., Kasuga, A., **Nishibori, M.**, 2008. Complex vertebral malformation in Holstein cows in Japan and its inheritance to crossbred F1 generation. *Anim. Reprod. Sci.* **103**: 348-354.
- Hossain, M.D., Bulbul, S.M., **Nishibori, M.**, Islam, M.A., 2008. Effect of different growth promoters on growth and meat yield of broilers. *J. Poult. Sci.* **45**:287-291.
- Tadano, R., **Nishibori, M.**, **Tsudzuki, M.**, 2008. High accuracy of genetic discrimination among chicken lines obtained through an individual assignment test. *Anim. Genet.* **39**: 567-571.
- Tadano, R., Imamura, Y., Matsuzaki, M., **Nishibori, M.**, **Tsudzuki, M.**, 2008. Evaluation of a reduction in the effective population size for a rare Japanese native chicken breed, the Kurekodori. *Anim. Genet.* **39**:457-458.
- Tadano, R., **Nishibori, M.**, Imamura, Y., Matsuzaki, M., Kinoshita, K., Mizutani, M., Namikawa, T., **Tsudzuki, M.**, 2008. High genetic divergence in miniature breeds of Japanese native chickens compared to Red Junglefowl, as revealed by microsatellite analysis. *Anim. Genet.* **39**:71-78.
- Rezaeian, A.H., Isokane, T., **Nishibori, M.**, Chiba, M., Hiraiwa, N., Yoshizawa, M., Yasue, H., 2008. *CGRP* and *CGRP* transcript amount in mouse tissues of various developmental stages and their tissue

expression sites. *Brain & Development*. **31**: 682-693.

- Matsumoto, H., Maruse, H., Inaba, Y., Yoshizawa, K., Sasazaki, S., Fujiwara, A., **Nishibori, M.**, Nakamura, A., Takeda, S., Ichihara, N., Kikuchi, T., Mukai, F., Mannen, H., 2008. The ubiquitin ligase gene (WWP1) is responsible for the chicken muscular dystrophy. *FEBS letter*. **582**: 2212-2218.
- Hosomichi, K., Miller, M.M., Goto, R.M., Wang, Y., Suzuki, S., Kulski, J.K., **Nishibori, M.**, Inoko, H., Hanzawa, K., Shiina, T., 2008. Contribution of mutation, recombination, and gene conversion to chicken MHC-B haplotype diversity. *J. Immunology*. **181**: 3393-3399.
- Kawashima, I., Okazaki, T., Noma, N., **Nishibori, M.**, Yamashita, Y., Shimada, M., 2008. Sequential exposure of porcine cumulus cells to FSH and/or LH is critical for appropriate expression of steroidogenic and ovulation related genes that impact oocyte maturation *in vivo* and *in vitro*. *Reproduction*. **136**: 9-21.
- Rezaeian, A.H., Katafuchi, T., Hiraiwa, N., Saito, T., **Nishibori, M.**, Hamano, K., Yoshizawa, M., Minamino, N., Yasue, H., 2008. Porcine *CRSP1*, 2, and 3 genome structures, expressions in tissues, and functions. *Cytogenet. Genome Res*. **121**:41-49.
- Das, S.C., Chowdhury, S.D., Khatun, M.A., **Nishibori, M.**, Isobe, N., Yoshimura, Y., 2008. Poultry production profile and expected future projection in Bangladesh. *World's Poult. Sci. J*. **64**: 99-118.
- Matsuura, D., **Maeda, T.**, 2008. P34^{cdc2} kinase and MAP kinase activities and perthenogenetic activation in porcine oocytes after injection of miniature pig sperm extracts. *J. Mamm. Ova Res.*, **25**: 63-68.
- El-Gawish, R., Ghanem, M. E., **Maeda, T.**, 2008. Effects of low doses of bisphenol A and *o, p'*-DDT on reproductive function of posthatching male Japanese quail. *Toxic. Environ. Chem.*, **90**: 1099-1107.
- El-Gawish, R., Ghanem, M. E., **Maeda, T.**, 2008. Low doses of bisphenol A and *o, p'*-DDT at early stage of life delayed sexual maturity in female Japanese on reproductive function of posthatching male Japanese quail. *Livestock Res. Rural Dev.*, **20**: 1-6.
- Terao, H., **Fujita, M.**, **Bungo, T.**, 2008. Stress response and negative energy balance observed in the blood of transition dairy cow. *Anim. Behav. Manage*. **44**: 208-214.
- Yanagita, K., Shiraishi, J.-i., **Fujita, M.**, **Bungo, T.**, 2008. Effects of N-terminal fragments of β -endorphin on feeding in chicks. *Neurosci. Lett*. **442**: 140-142.
- Shiraishi, J.-i., Yanagita, K., **Fujita, M.**, **Bungo, T.**, 2008. μ -Opioid receptor agonist diminishes POMC gene expression and anorexia by central insulin in neonatal chicks. *Neurosci. Lett*. **439**: 227-229.
- Bungo, T.**, Yahata, K., Izumi, T., Dodo K.-I., Yanagita, K., Shiraishi, J.-i., Ohta, Y., **Fujita, M.**, 2008. Centrally administered tryptophan suppresses food intake in free fed chicks through the serotonergic system. *J. Poult. Sci*. **45**: 215-219.
- Furuta, H., Izumi, T., Dodo, K., Yahata, K., Nishimoto, S., **Bungo, T.**, 2008. Response to sweetener-quinine mixtures in chicks: Short-term fluid intake test. *J. Appl. Anim. Res*. **33**: 133-136.
- Adachi, H., Takemoto, Y., **Bungo, T.**, Ohkobo, T., 2008. Chicken leptin receptor is functional to activate JAK-STAT pathway in vitro. *J. Endocrinol*. **197**: 335-342.
- Yanagita, K., Shiraishi, J.-i., **Fujita, M.**, **Bungo, T.**, 2008. Mu-opioid receptor is involved in β -endorphin-induced feeding in the meat-type chick. *J. Poult. Sci*. **45**: 139-142.
- Shiraishi, J.-i., Yanagita, K., **Fujita, M.**, **Bungo, T.**, 2008. Central insulin suppresses feeding behavior via melanocortins in chicks. *Domest. Anim. Endocrinol*. **34**: 223-228.
- Shimizu, M., Watanabe, Y., **Isobe, N.**, **Yoshimura, Y.**, 2008. Expression of Avian beta-Defensin 3, an Antimicrobial Peptide, by Sperm in the Male Reproductive Organs and Oviduct in Chickens: An Immunohistochemical Study. *Poult. Sci*. **87**: 2653-2659.
- Das, S.C., **Isobe, N.**, **Yoshimura, Y.**, 2008. Mechanism of Prolonged Sperm Storage and Sperm Survivability in Hen Oviduct: A Review. *Am. J. Reprod. Immunol*. **60**: 477-481.
- Yamamoto, I., **Yoshimura, Y.**, Tsukuda, A., Kansaku, N., Tsushima, N., Tanaka, M., 2008. Predominant expression of growth hormone secretagogue receptor in the caudal lobe of chicken pituitary and parallel

- developmental increase in expression of pituitary GH and proventriculus ghrelin mRNA. *Anim. Sci. J.* **79**: 116-121.
- Subedi, K., **Isobe, N., Yoshimura, Y.**, 2008. Changes in the Localization of Immunoreactive Avian beta-defensin-12 in Ovarian Follicles during Follicular Growth and in Response to Lipopolysaccharide. *J. Poult. Sci.* **45**: 210-214.
- Abdel Mageed, A.M., **Isobe, N., Yoshimura, Y.**, 2008. Expressions of Avian β -Defensins in the Oviduct and Vaginal Response to Lipopolysaccharide for their Induction in Hens. *Poult. Sci.* **87**: 979-984.
- Das, S.C., Chowdhury, S.D., Khatun, M.A., **Nishibori, M., Isobe, N., Yoshimura, Y.**, 2008. Poultry production profile and expected future projection in Bangladesh. *World's Poult. Sci. J.* **64**: 99-118.
- Ghanem, M.E., **Isobe, N., Kubota, H., Suzuki, T., Kasuga, A., Nishibori, M.**, 2008. Ovarian Cyclicity and Reproductive Performance of Holstein Cows Carrying the Mutation of Complex Vertebral Malformation in Japan. *Reprod. Domest. Anim.* **43**: 346-350.
- Isobe, N., Kitabayashi, M., Yoshimura, Y.**, 2008. Expression of vascular endothelial growth factor receptors in bovine cystic follicles. *Reprod. Domest. Anim.* **43**: 267-271.

Aquatic Biology 水圏生物生産学講座

- Barros, B., **Sakai, Y., Hashimoto, H., Gushima, K.** 2008. Feeding behaviors of leaf-like juveniles of the round batfish *Platax orbicularis* (Ephippidae) on reefs of Kuchierabu-jima Island, southern Japan. *J. Ethol.* **26**: 287-293.
- Miyake, Y., Fukui, Y., **Kuniyoshi, H., Sakai, Y., Hashimoto, H.** 2008. Examination of the ability of gonadal sex change in primary males of the diandric wrasses *Halichoeres poecilopterus* and *Halichoeres tenuispinis*: estrogen implantation experiments *Zool. Sci.* **25**: 220-224.
- Nagasawa, K., Kubo, S., Sakai, Y., Hashimoto, H.** 2008. Occurrence of the parasitic copepod *Acanthochondria spirigera* (Chondracanthidae) on anglerfish *Lophius litulon* in the East China Sea off western Japan. *J. Grad. Sch. Biosp. Sci., Hiroshima Univ.* **47**: 17-22.
- Blanco Gonzalez, E., **Nagasawa, K. and Umino, T.**, 2008. Stock enhancement programme for black sea bream (*Acanthopagrus schlegelii*) in Hiroshima Bay: monitoring the genetic effects. *Aquaculture*, **276**: 36-43.
- Blanco Gonzalez, E., **Umino, T., Nagasawa, K.**, 2008. Stock enhancement programme for black sea bream, *Acanthopagrus schlegelii* (Bleeker), in Hiroshima Bay, Japan: a review. *Aquaculture Res.*, **39**: 1307-1315.
- 平田 靖・田村義信・長澤和也，2008．マガキ成貝飼育海水への採苗器の浸漬条件が幼生付着率に及ぼす影響．日本水産学会誌，**74**: 1017-1023.
- 石丸恵理子・海野徹也・米田 穰・柴田康行・湯本貴和・陀安一郎，2008．海産魚類の産地同定からみた水産資源の流通の展開 - 中四国地方を中心とした魚類遺存体の炭素・窒素同位体分析の視角から - ．考古学と自然科学，**57**: 1-20.
- 長澤和也，2008．サケジラミの生残戦略．石川良輔 [編集]，節足動物の多様性と系統，裳華房，東京：270.
- 長澤和也，2008．日本産魚類・両生類に寄生する蛇状線虫上科と鰻状線虫上科各種の目録（1916-2008年）．日本生物地理学会会報，**63**: 111-124.
- 長澤和也，2008．魚病NOW．マダイのクピナゴコウトウチュウ症．養殖，**45**(1): 4
- 長澤和也，2008．魚病NOW．ウスメバルのソイマルナガクビムシ症．養殖，**45**(8): 100.
- 長澤和也，2008．魚病NOW．ハタハタのアカントコンドリア症．養殖，**45**(11): 100.
- 長澤和也・萩原宗一，2008．わが国の板鰓類に寄生するヒル類．板鰓類研究会報，**44**: 1-7.
- 長澤和也・山内健生・海野徹也，2008．日本産ウオビル科およびエラビル科ヒル類の目録（1895-2008年）．日本生物地理学会会報，**63**: 151-171.

- Nagasawa, K.**, Fujiwara, K., 2008. Two piscicolid leeches (Hirudinida) and their cocoons on snow crabs *Chionoecetes opilio* in Japan, with the first record of *Johanssonia arctica* from the Sea of Japan. *Biogeography*, **10**: 65-72.
- Nagasawa, K.**, Fukuda, 2008. A case of infestation by *Limnotrachelobdella okae* (Hirudinida: Piscicolidae) on Japanese amberjack *Seriola quinqueradiata* cultured in Kyushu, Japan. *J. Grad. Sch. Biosp. Sci., Hiroshima Univ.*, **47**: 29-34.
- Nagasawa, K.**, Kawai, K., 2008. New host record for *Argulus coregoni* (Crustacea: Branchiura: Argulidae), with discussion on its natural distribution in Japan. *J. Grad. Sch. Biosp. Sci., Hiroshima Univ.*, **47**: 23-28.
- Nagasawa, K.**, Takaya, Y., 2008. Unusual heavy infection with *Acanthochondria priacanthi* (Copepoda, Chondracanthidae) on adult sailfin sandfish *Arctoscopus japonicus* from the Pacific Ocean off southwestern Hokkaido. *Biogeography*, **10**: 17-22.
- Nagasawa, K.**, Kubo, S., Sakai, Y., Hashimoto, H., 2008. Occurrence of the parasitic copepod *Acanthochondria spirigera* (Chondracanthidae) on anglerfish *Lophius litulon* in the East China Sea off western Japan. *J. Grad. Sch. Biosp. Sci., Hiroshima Univ.*, **47**: 17-22.
- Nagasawa, K.**, Ueno, Y., Ishito, Y., Yamauchi, T., 2008. *Limnotrachelobdella okae* (Hirudinida, Piscicolidae) from cherry salmon *Oncorhynchus masou masou* in neritic deep waters of the western North Pacific Ocean. *Biogeography*, **10**: 33-39.
- Nagasawa, K.**, Umino, T., Uyeno, D., Ohtsuka, S., Koizumi, H., 2008. Infection with the parasitic copepod *Clavella parva* (Lernaeopodidae) in gold-eye rockfish *Sebastes thompsoni* broodstock in Japan. *Fish Pathol.*, **43**: 55-60.
- Oku, H., **Umino, T.**, 2008. Molecular characterization of peroxisome proliferator-activated receptors (PPARs) and their gene expression in the differentiating adipocytes of red sea bream *Pagrus major*. *Comp. Biochem. Physiol. B, Biochem. Mol. Biol.*, **151**: 268-77.
- 斉藤英俊・中西夕佳里・重田利拓・海野徹也・河合幸一郎・今林博道, 2008. 広島湾におけるマガキ種苗に及ぼす魚類の捕食の影響. 日本水産学会誌, **74**: 809-815.
- 山本香菜子・高山 翔・海野徹也・古澤修一・柴田恭宏・中村和夫, 2008. 耳石Sr/Ca比による広島県沼田川水系の天然遡上アユと陸封アユの判別. 広島大学大学院生物圏科学研究科紀要, **47**: 35-40.
- Yamauchi, T., Ito, T., Yamaguchi, K., **Nagasawa, K.**, 2008. Some leeches (Annelida: Hirudinida: Piscicolidae, Glossiphoniidae) in the Hii River system, Shimane Prefecture, Japan. *Laguna*, **15**: 19-23.
- Yamauchi, T., Ota, Y., **Nagasawa, K.**, 2008. *Stibarobdella macrothela* (Annelida, Hirudinida, Piscicolidae) from elasmobranchs in Japanese waters, with new host records. *Biogeography*, **10**: 53-57.
- Okuda, J., Kiriya, M., Yamanoi, E., **Nakai, T.**, 2008. The type III secretion system-dependent repression of NF- κ B activation to the intracellular growth of *Edwardsiella tarda* in human epithelial cells. *FEMS Microbiol. Lett.* **283**: 9-14.
- Nagai, T., Iida, Y., Iwamoto, E., **Nakai, T.**, 2008. A new vibriosis of cultured ayu *Plecoglossus altivelis*. *Fish Pathol.* **43**: 49-54.
- Sakamoto, T., Okinaka, Y., Mori, K., Sugaya, T., Nishioka, T., Oka, M., Yamashita, H., **Nakai, T.**, 2008. Phylogenetic analysis of betanodavirus RNA2 identified from wild marine fish in oceanic region. *Fish Pathol.* **43**: 19-27.
- Iida, Y., Hiroi, J., Namba, K., **Nakai, T.**, 2008. Dysfunction in respiration and osmotic regulation of larval Japanese flounder affected by viral epidermal hyperplasia. *Fish Pathol.* **43**: 72-78.
- Ito, Y., Okinaka, Y., Mori, K., Sugaya, T., Nishioka, T., Oka, M., **Nakai, T.**, 2008. Variable region of betanodavirus RNA2 is sufficient to determine host specificity. *Dis. Aquat. Org.* **79**: 199-205.
- Okinaka, Y., **Nakai, T.**, 2008. Comparison among the complete genomes of the four types of betanodaviruses. *Dis. Aquat. Org.* **80**: 113-121.
- de la Pena, L. D., Mori, K., Quinitio, G. F., Chavez, D. S., Toledo, J. D., Suarnaba, V. S., Maeno, Y., Kiryu, I., **Nakai, T.**,

2008. Characterization of betanodaviruses in the Philippines. *Bull. Eur. Ass. Fish Pathol.* **28**: 230-237.

内山成人・上野友美・只野健太郎・古川三記子・西木一生・野本竜平・長宗秀明・中井敏博・吉田照豊 (2008) ヒト糞便由来 *Lactococcus garvieae* と魚類由来株との比較研究. *日水誌* **74**: 1085-1087.

Sakai, T., Kamaishi, T., Sano, M., Tensha, K., Arima, T., Iida, Y., Nagai, T., **Nakai, T.**, Iida, T. 2008. Outbreaks of *Edwardsiella ictaluri* infection in ayu *Plecoglossus altivelis* in Japanese rivers. *Fish Pathol.* **43**: 152-157.

Nagai, T., Iwamoto, E., Sakai, T., Arima, T., Tensha, K., Iida, Y., Iida, T., **Nakai, T.**, 2008. Characterization of *Edwardsiella ictaluri* isolated from wild ayu *Plecoglossus altivelis* in Japan. *Fish Pathol.* **43**: 158-163.

Muhammad Ikbal Illijas, Ryo Nakamura, Masaru Terasaki, **Noriaki Iijima**, Akihiko Hara, Nobuhiro Fusetani, Yutaka Itabashi : Partial Purification and Characterization of Glycerolipid Acyl-Hydrolase from the Red Alga *Gracilaria vermiculophylla*. *Fish.Sci.*, **74**, 670-676, 2008.

Miyake, Y., Fukui, Y., **Kuniyoshi, H., Sakai, Y., Hashimoto, H.** 2008. Examination of the ability of gonadal sex change in primary males of the diandric wrasses *Halichoeres poecilopterus* and *Halichoeres tenuispinis*: estrogen implantation experiments. *Zool. Sci.* **25**: 220-224.

Field Science in Setouchi Areas 瀬戸内圏フィールド科学講座

Boxshall, G.A., Lin, C.-L., Ho, J.-S., **Ohtsuka, S.**, Venmathi Maran, B.A., Justine, J.-L. 2008. A revision of the family Dissonidae Kurtz, 1924 (Copepoda: Siphonostomatoida). *Systematic Parasitology*, **70**: 81-106.

Grygier, M., **Ohtsuka, S.** 2008. A new genus of monstilloid copepods (Crustacea) with anteriorly pointing ovigerous spines and related adaptations for subthoracic brooding. *Zoological Journal of Linnean Society*, **152**: 459-506.

大塚 攻・駒井智幸. 2008. 甲殻亜門. 「節足動物の多様性と系統」(石川 良輔 編集), 裳華房, 東京: pp.172-268.

大塚 攻・大谷道夫・H.Y. Soh・M. Kim・W. Lee・C. Huang・W.J. Kimmerer・下笠敬紀・羽生田岳昭・川井浩史・上田拓史・山口愛果. 2008. 日本の国際貿易港における外来性カイアシ類の出現の有無とバラスト水との関連. *日本プランクトン学会報*, **55**: 115-126.

Piasecki, W., **Ohtsuka, S.**, Yoshizaki, R. 2008. A new species of *Thysanote* Krøyer, 1863 (Copepoda: Siphonostomatoida: Lernaepodidae), a fish parasite from Thailand. *Acta Ichthyologica et Piscatoria*, **38**: 29-35.

Seong, Y.M., **Ohtsuka, S.**, Ueda, H., Soh, H.Y. 2008. *Acartia* (*Odontacartia*) *ohtsukai* Ueda and Bucklin, 2006 (Copepoda, Calanoida, Acartiidae): first record of its occurrence in Korean waters and habitat segregation from its sibling species *A. pacifica* Steuer, 1915. *Zootaxa*, **1841**: 61-64.

Shimomura, M., **Ohtsuka, S.** 2008. New record of a euphausiid ectoparasitic isopod, *Heterophryxus appendiculatus* G.O. Sars, 1885 (Crustacea: Dajidae) from Japan. *Proceedings of Biological Society of Washington*, **121**: 326-330.

Venmathi Maran, B.A., **Ohtsuka, S.** 2008. Descriptions of caligiform copepods in plankton samples collected from East Asia: accidental occurrences of a new mode of life cycle? *Plankton Benthos Research*, **3**: 202-215.

Venmathi Maran, B.A., **Ohtsuka, S.**, Boxshall, G.A. 2008. A new species of *Anuretes* Heller, 1865 (Copepoda: Caligidae) from the yellowbanded sweetlips *Plectorhinchus lineatus* (Haemilidae) off New Caledonia. *Systematic Parasitology*, **70**: 35-40.

谷田 創・木場有紀. 2008. 動物による子どもの心の育成 動物介在教育. 「ヒトと動物の関係学第3巻 ペットと社会」(森 裕司・奥野卓司編) 岩波書店, 東京: 231-253.

木場有紀・林 美津代・谷田 創. 2008. 加速度センサを用いた乗馬の研究 二蹄跡運動の効果と騎乗者間

差の解析の試み . ヒトと動物の関係学会誌 . 20: 42-47 .

- 木場有紀・谷田 創・村岡里香・山本正克 . 2008 . 広島県北部におけるイノシシ被害対策としてのガーディングドッグ導入に関する問題点と展望～先進導入事例調査及びアンケート調査より～ . ヒトと動物の関係学会誌 . 20: 82-90 .
- 三上崇徳・木場有紀・堀見敏洋・森元真理・谷田 創 . 2008 . 広島県下の私立幼稚園における動物飼育に関するアンケート調査 . *Animal Nursing* . 13 : 1 : 55-61 .
- 谷田 創・木場有紀・村岡里香・藤瀬万里絵・森元真理・中村成宏 . 2008 . 北広島町大朝中学校におけるサイエンス・パートナーシップ・プロジェクト「食農リテラシーを高める人と自然と動物の関係学入門」～地域に根ざしたフィールド科学～ , 広島大学大学院瀬戸内圏フィールド科学教育研究センター報告 , 5: 1-16.
- 木場有紀・谷田 創 . 2008 . 動物園における日本と外国の野生動物の展示に対する来園者の興味と意識 . 広島大学大学院瀬戸内圏フィールド科学教育研究センター報告 . 5: 17-25.
- 大石亘太・木場有紀・谷田 創 . 2008 . 中国地方における放牧酪農展開の可能性1 放牧酪農家に対する現地調査 . 広島大学大学院瀬戸内圏フィールド科学教育研究センター報告 . 5: 45-52.
- 大石亘太・木場有紀・谷田 創 . 2008 . 中国地方における放牧酪農展開の可能性2 アンケート調査による放牧酪農家と従来型酪農家の比較 . 広島大学大学院瀬戸内圏フィールド科学教育研究センター報告 . 5: 53-59.
- 堀見敏洋・森田 愛・木場有紀・谷田 創 . 2008 . 日本における野生動物保護の現状を探る . 広島大学大学院瀬戸内圏フィールド科学教育研究センター報告 . 5: 61-65.
- 谷田 創・木場有紀・金岡美幸・池田明子・掛 志穂・州濱美由紀・君岡智央・久原有貴・井上由子・山中寛美・東 加奈子・磯村亜紀・有村 由香 . 2008 . 食農リテラシーを高めるための幼児を対象とした家畜介在教育に関する研究II 家畜の代替としてのウサギの適切な飼育ガイドライン . 広島大学学部・附属学校共同研究紀要 . 36 : 307-315 .

Molecular and Applied Biosciences 分子生命開発学講座

- Shirai, C., **Mizuta, K.**, 2008. SUMO mediates interaction of Ebp2p, the yeast homolog of Epstein-Barr virus nuclear antigen 1-binding protein 2, with a RING finger protein Ris1p. *Biosci. Biotechnol. Biochem.* **72**: 1881-1886.
- Horigome, C., Okada, T., Matsuki, K., **Mizuta, K.**, 2008. A ribosome assembly factor Ebp2p, the yeast homolog of EBNA1-binding protein 2, is involved in the secretory response. *Biosci. Biotechnol. Biochem.* **72**: 1080-1086.
- Hakamada, S., Sonoyama, T., Ichiki, S., Nakamura, S., Uchiyama, S., Kobayashi, Y., **Sambongi, Y.**, 2008. Stabilization mechanism of cytochrome *c*₅₅₂ from a moderately thermophilic bacterium, *Hydrogenophilus thermoluteolus*. *Biosci. Biotech. Biochem.*, **72**: 2103-2109.
- K., Watanabe, R., Pichler, H., Ihara, K., Murakami, S., Riezman, H., **Funato, K.**, 2008. Yeast ARV1 is required for efficient delivery of an early GPI intermediate to the first mannosyltransferase during GPI assembly and controls lipid flow from the endoplasmic reticulum. *Mol. Biol. Cell* **19**:2069-2082.
- Oshima, Y., Kamigaki, A., Nakamori, C., Mano, S., Hayashi, M., Nishimura, M. **Esaka, M.**, 2008. Plant catalase is imported into peroxisomes by Pex5p but is distinct from typical PTS1 import. *Plant Cell Physiol.* **49**:671-677.
- Badejo, A.A., Tanaka N., **Esaka, M.**, 2008. Analysis of GDP-D-mannose pyrophosphorylase gene promoter from acerola (*Malpighia glabra*) and increase in ascorbate content of transgenic tobacco expressing the acerola gene. *Plant Cell Physiol.* **49**:126-132.
- Jeong S.T., Goto-Yamamoto N., Hashizume K., **Esaka, M.**, 2008. Expression of multi-copy flavonoid pathway genes coincides with anthocyanin, flavonol and flavan-3-ol accumulation of grapevine . *Vitis* **47**:135-140.

- Tokunaga T, Miyata Y, **Fujikawa Y**, **Esaka M**, 2008. RNAi-mediated knockdown of XIP-type endoxylanase inhibitor gene, OsXIP, has no effect on grain development and germination in rice. *Plant Cell Physiol.* **49**(7):1122-1127.
- Honda, K.** 2008. Addiction to pyrrolizidine alkaloids in male danaine butterflies: A quest for the evolutionary origin of pharmacophagy. In " Insect Physiology: New Research ", Ed. Maes, Nova Science Publishers, Inc. New York: 73-118.
- Honda, K.**, Honda, H., **Ômura, H.**, 2008. Fluorescent pupal secretion of the papilionid butterfly, *Luehdorfia japonica*. *Trans. Lepid. Soc. Jpn.* **59**: 165-170.
- 本田計一・八木 済 . 2008 . マダラチョウの配偶行動と性フェロモン . 昆虫と自然 . **43**: 14-19.
- Ômura, H.**, **Honda, K.**, Asaoka, K., Inoue, T.A. 2008. Tolerance to fermentation products in sugar reception: gustatory adaptation of adult butterfly proboscis for feeding on rotting foods. *J. Comp. Physiol. A.* **194**: 545-555.
- 大村 尚 . 2008 . チョウの訪花行動と花香 . 「昆虫ミメティックス～昆虫の設計に学ぶ～」(下澤樞夫・針山孝彦 監修) NTS: 754-761.
- TATEISHI, Yoshiko, **HORIUCHI, Hiroyuki**, **FURUSAWA, Shuichi** and **MATSUDA, Haruo**, 2008, Construction of chicken-mouse chimeric antibody and immunogenicity in mice. *J. Vet. Med. Sci.* **70**(4): 397-400.
- Shibata, H., Yoshioka, Y., Ohkawa, A., Abe, Y., Nomura, T., Mukai, Y., Nakagawa, S., Taniai, M., **Ohta, T.**, Mayumi, T., Kamada, H., Tsutsumi, Y., 2008. The therapeutic effect of TNFR1-selective antagonistic mutant TNF- α in murine hepatitis models. *Cytokine* **44**: 229-233.
- Ushio, C., Ariyasu, H., Kayano, T., Ohta, H., Aga, M., Ariyasu, T., **Ohta, T.**, Kurimoto, M., Fukuda, S., 2008. Establishment of antihuman IFN- α 8-specific monoclonal antibodies and their application in the Enzyme-Linked Immunosorbent Assay (ELISA). *J. Interferon Cytokine Res.* **28**: 359-366.
- Shibata, H., Yoshioka, Y., Ohkawa, A., Minowa, K., Mukai, Y., Abe, Y., Taniai, M., Nomura, T., Kayamuro, H., Nabeshi, H., Sugita, T., Imai, S., Nagano, K., Yoshikawa, T., Fujita, T., Nakagawa, S., Yamamoto, A., **Ohta, T.**, Hayakawa, T., Mayumi, T., Vandenabeele, P., Aggarwal, B. B., Nakamura, T., Yamagata, Y., Tsunoda, S., Kamada, H., Tsutsumi, Y., 2008. Creation and X-ray structure analysis of the Tumor Necrosis Factor Receptor-1-selective mutant of a Tumor Necrosis Factor- antagonist. *J. Biol. Chem.* **283**: 998-1007.
- Kohno, K., Miyake, M., Sano, O., Tanaka-Kataoka, M., Yamamoto, S., Koya -Miyata, S., Arai, N., Fujii, M., Watanabe, H., **Ushio, S.**, Iwaki, K., Fukuda, S., 2008. Anti-inflammatory and immunomodulatory properties of 2-amino-3H-phenoxazin-3-one. *Biol. Pharm. Bull.* **31**: 1938-1945.

Food Science and Biofunctions 食資源科学講座

- Beppu, R., Nojima, K., Tsuruda, S., Delan, G.G., Quilantang, M.B., Taniyama, S., Sagara, T., Nishio, S., Takayama, H., Miyazawa, K., **Asakawa, M.** 2008. Occurrence of PSP-Producing dinoflagellate *Alexandrium tamiyavanichii* in Bingo-Nada, the central coastal water of the Seto Inland Sea, Hiroshima Prefecture, Japan. *Mar. Pollut. Bull.* **56**, 758-763.
- 浅川 学 . 2008 . 魚介類 , 海藻の毒 . 中毒研究 **21**, 285-292.
- Hirayama, M.**, Ahsan, M.N., Mitani H., Watabe, S. 2008. CYR61 is a novel gene associated with temperature-dependent changes in fish metabolism as revealed by cDNA microarray analysis on a medaka *Oryzias latipes* cell line. *J. Cell. Biochem.*, **104**: 1297-1310.
- Kobayashi, S., **Tanabe, S.**, Sugiyama, M., Konishi, Y., 2008. Transepithelial transport of hesperetin and hesperidin in intestinal Caco-2 cell monolayers, *Biochim. Biophys. Acta*, **1778**: 33-41.
- Miyauchi, E., Morita, H., Okuda, J., Sashihara, T., Shimizu, M., **Tanabe, S.**, 2008. Cell wall fraction of *Enterococcus hirae* ameliorates TNF- α -induced barrier impairment in the human epithelial tight junction, *Lett*

Appl. Microbiol., **46**: 469-476.

- Tanabe, S.**, Kinuta, Y., Saito, Y., 2008. *Bifidobacterium infantis* suppresses proinflammatory interleukin-17 production in murine splenocytes and dextran sodium sulfate-induced intestinal inflammation, *Int. J. Mol. Med.*, **22**: 181-185.
- Tanabe, S.**, 2008. Analysis of food allergen structures and development of foods for allergic patients, *Biosci. Biotechnol. Biochem.*, **72**: 649-659.
- Fujimura, T., Matsumoto, T., **Tanabe, S.**, and Morimatsu, F., 2008. Specific discrimination of chicken DNA from other poultry DNA in processed foods using the polymerase chain reaction, *Biosci. Biotechnol. Biochem.*, **72**: 909-913.
- Isobe, N., Suzuki, M., Oda, M., and **Tanabe, S.**, 2008. Enzyme-modified cheese exerts inhibitory effects on allergen permeation in rats suffering from indomethacin-induced intestinal inflammation, *Biosci. Biotechnol. Biochem.*, **72**: 1740-1745.
- 宮内栄治・田辺創一．2008．乳酸菌・ピフィズ菌による腸管炎症抑制, *化学と生物*, **46**:222-228.
- 田辺創一．2008．乳発酵食品の腸管バリア保護作用, *臨床免疫・アレルギー科*, **50**: 590-592.
- Lu, T., Yonghui, X., Montinen, E.S., **Kato, N.**, 2008. Supplementing vitamin B₆ to a low vitamin B₆ diet exaggerates UVB-induced skin tumorigenesis in DMBA-treated hairless mice. *J. Nutr. Sci. Vitaminol.* **54**: 262-265.
- 矢中規之．2008．機能性食品の有効性評価：特に肥満に関して, 「Functional Food」フジメディカル出版：1巻 180-185.
- 佐藤清隆．2008．食品ナノ粒子の製造と利用, *食品と技術*, **445**: 9-16.
- 上野 聡．2008．ナノサイズ粒子中の脂質結晶化に及ぼす超音波とせん断応力の効果 (課題番号 18540406), 平成18～19年度科学研究費補助金 (基盤研究(c)) 研究成果報告書．
- Shinohara, Y., Takamizawa, T., **Ueno, S.**, **Sato, K.**, Kobayashi, I., Nakajima, M. and Y. Amemiya, 2008. Microbeam X-ray diffraction Analysis of Interfacial Heterogeneous nucleation of n-hexadecane inside Oil-in-Water Emulsion Droplets, *Crystal Growth & Design*, **8**: 3123-3126.
- Yamamoto, S., Furuya, H., Tsutsui, K., **Ueno, S.** and **Sato, K.**, 2008. In Situ Observation of thermochromic behavior of Binary Mixtures of Phenolic Long-Chain Molecules and Fluoran Dye for rewritable paper, Application, *Crystal growth & Design*, **8**: 2256-2263.
- Ueno, S.**, Nishida, T. and **Sato, K.**, 2008. Synchrotron radiation microbeam X-ray analysis of microstructures and the polymorphic transformation of spherulite crystals of trilaurin, *Crystal Growth & Design*, **8**: 751-754.
- Uehara, H., Saganuma, T., Negishi, S., Uda, Y., Furukawa, Y., **Ueno, S.** and **Sato, K.**, 2008. Physical properties of two isomers of conjugated linoleic acid, *J. Am. Oil Chem. Soc.*, **85**: 29-36.
- Takahashi, H., Katagiri, C., **Ueno, S.** and Inoue, K., 2008. Direct observation of fat crystallization in a living fly by X-ray diffraction: Fat crystallization does not cause fly's instant death, but ice formation does, *Cryobiology* **57**: 75-77.
- Kikoku, Y., Tagashira, N., **Nakano, H.**, 2008. Heat resistance of fungi isolated from frozen blueberries, *J. Food Protect.* **71**: 2030-2035.
- 中野宏幸・崔海英．2008．低酸性食品の嫌気性微生物制御における指標菌の研究, *乳酸菌研究会に関する報告書*．**19**: 493-501.
- Ahmed, A. M., **Shimamoto, T.**, 2008. Emergence of cefepime- and ceftazidime-resistant *Citrobacter freundii* clinical isolate harbouring a novel chromosomally-encoded Amp^C β -lactamase, CMY-37. *Int. J. Antimicrob. Agents*, **32**: 256-261.
- Hammad, A. M., Ahmed, A. M., Ishida, Y., **Shimamoto, T.**, 2008. First characterization and emergence of SHV-60 in raw milk of a healthy cow in Japan. *J. Vet. Med. Sci.* **70**: 1269-1272.
- Hammad, A. M., **Shimamoto, T.**, 2008. First characterization and emergence of SHV-60 in raw milk of a healthy cow in

- Japan. The First Japan-Egypt International Symposium on Science and Technology (Tokyo, Japan).
- Ahmed, A. M., Shimabukuro, H., **Shimamoto, T.**, 2008. Isolation and molecular characterization of multidrug-resistant strains of *Escherichia coli* and *Salmonella* from retail chicken meat in Japan. 1st International Meeting on Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens (Copenhagen, Denmark).
- Shimamoto, T.**, Ishida, Y., Inouye, K., 2008. Association of retrons with novel mobile genetic elements of *Vibrio parahaemolyticus* and *Vibrio mimicus*. The 9th Korea-Japan International Symposium on Microbiology (Seoul, Korea).
- Ishida, Y., Inouye, K., **Shimamoto, T.**, 2008. Association of a novel retron with a mobile genetic element integrated into the dihydrouridine synthase gene of *Vibrio mimicus*. 43rd U.S.-Japan Joint Panel Meeting on Cholera and Other Bacterial Enteric Infections (Fukuoka, Japan).
- Hammad, A. M., Ishida, Y., **Shimamoto, T.**, 2008. Prevalence and molecular characterization of ampicillin resistant Enterobacteriaceae isolated from traditional Egyptian Domiati cheese. 11th Western Pacific Congress on Chemotherapy and Infectious Diseases (Taipei, Taiwan).
- 伊佐亜希子・羽倉義雄・鈴木寛一．2008．遠赤外線加熱を付与した過熱水蒸気処理によるバイオマスの炭化速度に及ぼす試料サイズの影響．*日本食品工学会誌* **9**: 91-98.
- 羽倉義雄，2009．食品素材の低温切断・低温粉碎加工．*Food & Food Ingredients Journal of Japan* **214**:116-124.
- Ohkuma, C., **Kawai, K.**, Viriyarattanasak, C., Mahawanich, T., Tantratian, S., Takai, R., Suzuki, T., 2008. Glass transition properties of frozen and freeze-dried surimi products: effects of sugar and moisture on the glass transition temperature. *Food Hydrocol.* **22**: 255-262
- Viriyarattanasak, C., **Kawai, K.**, Watanabe, M., Suzuki, T., 2008. What is the actual low-temperature glass transition for fish flesh? *Transactions of Japan Society of Refrigeration and Air Conditioning Engineers*, **25**: 47-54
- 川井清司，黒崎香介，鈴木徹．2008．製造過程によるガラス状食品の非平衡状態の相違に関する解析手法．*低温生物工学会誌*，**54**: 71-77
- Jeong, S.T., **Goto-Yamamoto, N.**, Hashizume, K., **Esaka, M.**, 2008. Expression of multi-copy flavonoid pathway genes coincides with anthocyanin, flavonol and flavan-3-ol accumulation of grapevine. *Vitis* **47**: 135-140.
- Poudel, P.R., **Goto-Yamamoto, N.**, Mochioka, R., Kataoka, I., Beppu, K., 2008. Expression analysis of UDP-glucose:flavonoid 3-O-glucosyltransferase (*UFGT*) gene in an interspecific hybrid grape between *Vitis ficifolia* var. ganebu and *Vitis vinifera* cv. Muscat of Alexandria. *Plant Biotechnol. Rep.* **2**: 233-238.
- Koyama K., **Goto-Yamamoto, N.**, 2008. Bunch shading during different developmental stages affects the phenolic biosynthesis in berry skins of 'Cabernet Sauvignon' grapes. *J. Am. Soc. Hort. Sci.* **133**: 743-753.
- 後藤奈美．2008．実用酵母の「飼い慣らし」の歴史を遺伝的多様性から探る．*醸協* **103**: 418-425.
- 後藤奈美．2008．ワインレッドと渋味の秘密 - ブドウとワインのフラボノイド化合物 - ．*FFIジャーナル* **213**: 1086-1091.
- 後藤奈美．2008．ブドウゲノム解読のインパクト．*遺伝* **62**: 4-5.
- 後藤奈美．2008．2-2-1醸造における有害菌の性質とその有害性.「光琳選書 食品と微生物」(児玉 徹監修，川本伸一編著)光琳，東京：81-87．
- 後藤奈美．2008．3-2-1清酒.「光琳選書 食品と微生物」(児玉 徹監修，川本伸一編著)光琳，東京：125-134．
- Koseki T., Mese Y., Fushinobu S., Masaki K., **Fujii T.**, Ito K., Shiono Y., Murayama T., **Iefuji H.**, 2008. Biochemical characterization of a glycoside hydrolase family 61 endoglucanase from *Aspergillus kawachii*. *Appl. Microbiol. Biotechnol.*, **77**: 1279-1285.
- Koseki T., Mese Y., Nishibori N., Masaki K., **Fujii T.**, Handa T., Yamane Y., Shiono Y., Murayama T., **Iefuji H.**, 2008. Characterization of an α-L-rhamnosidase from *Aspergillus kawachii* and its gene. *Appl. Microbiol.*

Biotechnol., **80**: 1007-1013.

- Watanabe T., Ozaki N., Iwashita K., **Fujii T., Iefuji H.**, 2008. Breeding of wastewater treatment yeasts that accumulate high concentrations of phosphorus. *Appl. Microbiol. Biotechnol.*, **80**: 331-338.
- 藤井 力 . 2008 . 平成19年度における酒類の研究業績 (環境・副産物の利用担当) . 日本醸造協会 . **103**: 277-296.
- 藤井 力 . 2008 . 特集 焼酎・泡盛の蒸留粕処理の今後の課題 . 酒類産業新聞 . **6/5**臨時号: 9.

Modeling and Management of Environmental Dynamics 環境予測制御論講座

- 中根周歩 . 2008 . 竹炭のふしぎな力 温暖化対策の可能性をさぐる , 小峰書店 , 東京 , 107 pp.
- 皮玲・中根周歩 . 2008 . 竹炭の埋設の有無及び管理手法の違いが土壤微生物や芝 (ペンクロス) の生育に及ぼす影響 , 環境情報科学論文集 , 22: 517-522.
- 中根周歩・実岡寛文・中坪孝之・皮玲 . 2008 . 屋上緑化における竹炭の有無と管理手法の違いが土壤微生物に及ぼす影響 . 広島大学・屋上緑化研究報告 [X] , 広島大学CO₂固定エコ・バイオ技術開発プロジェクト研究センター .
- 中根周歩 . 2008 . 竹炭によるゴルフ場コース土壌改良実験 . 広島大学・屋上緑化研究報告 [IX] , 広島大学CO₂固定エコ・バイオ技術開発プロジェクト研究センター .
- Muraoka, H., Noda, H., Uchida, M., Ohtsuka, T., Koizumi, H., **Nakatsubo T.**, 2008. Photosynthetic characteristics and biomass distribution of the dominant vascular plant species in a high-arctic tundra ecosystem, Ny-Ålesund, Svalbard: implications to their role in ecosystem carbon gain. *J. Plant Res.* **121**: 137-145.
- Nakatsubo, T.**, Yoshitake, S., Uchida, M., Uchida, M., Shibata, Y., Koizumi, H., 2008. Organic carbon and microbial biomass in a raised beach deposit under terrestrial vegetation in the High Arctic, Ny-Ålesund, Svalbard. *Polar Res.* **27**: 23-27.
- Yoshitake S., **Nakatsubo T.**, 2008. Changes in soil microbial biomass and community composition along vegetation zonation in a coastal sand dune. *Aust. J. Soil Res.* **46**: 390-396.
- 中坪孝之 . 2008 . 高緯度北極氷河後退域における遷移 . 「攪乱と遷移の自然史【「空き地」の植物生態学】」(重定南奈子・露崎史朗編) 北海道大学出版会 , 札幌 . : 219-232.
- 中坪孝之・内田雅己・村岡裕由・野田響・吉竹晋平・内田昌男 . 2008 . 気候変動と高緯度北極陸上生態系 - 炭素循環過程を中心に - . 総特集北半球高緯度海域における気候変動研究 - . 月刊地球 . **30**: 240-250.
- 内田昌男・内田雅己・熊田英峰・高橋善幸・大塚俊之・内海真生・近藤美由紀・中坪孝之・柴田康行 . 2008 . 気候変動と高緯度北極土壌圏 - 土壌有機炭素リザーバーへの温暖化影響 . 総特集北半球高緯度海域における気候変動研究 - . 月刊地球 . **30**: 216-229.
- Sasaki, A., Nakatsubo, T.**, 2008. Growth and nutrient economy of riparian *Salix gracilistyla*. In " Ecology of Riparian Forests in Japan: Disturbance, life-history and Regeneration " , Ed. Sakio, H., Tamura, T., Springer-Verlag: 191-204.
- 佐々木晶子 . 2008 . 河口干潟における好氣的有機物分解量 : 温度・潮汐を考慮した推定 . 瀬戸内海 . **52**: 48-51.
- Oguntimhin, I., Nakatani, N., **Sakugawa, H.**, 2008. Phytotoxicities of fluoranthene and phenanthrene deposited on needle surfaces of the evergreen conifer, Japanese red pine (*Pinus densiflora Sieb. et. Zucc.*). *Environmental Pollution*, **154**: 264-271.
- Chiwa, M., Kondo, H., Ebihara, N., **Sakugawa, H.** 2008. Atmospheric concentrations of nitric acid, sulfur dioxide, particulate nitrate, particulate sulfate, and estimation of their dry deposition on the urban- and mountaine-facing sides of Mt. Gokurakuji, western Japan. *Environ. Monit. Assess.*, **140**: 349-360.
- Tham, Y.W. F., **Sakugawa, H.**, 2008. Polycyclic Aromatic Hydrocarbons (PAHs) associated with atmospheric particles in Higashi Hiroshima, Japan: Influence of meteorological conditions and seasonal Variations.

Atmospheric Research, **88**: 224-233.

Oguntimehin, I., **Sakugawa, H.** 2008. Fluoranthene fumigation and exogenous scavenging of reactive oxygen intermediates (ROI) in evergreen Japanese red pine seedlings (*Pinus densiflora* Sieb. et. Zucc.). *Chemosphere*, **72**: 747-7541.

Chiwa, M., Miyake, T., Kimura, N., **Sakugawa, H.**, 2008. Organic acids and aldehydes in throughfall and dew in a Japanese pine forest. *J. Environ. Qual.* **37**: 2397-2402.

Tham Y. W. F., Takeda, K., **Sakugawa, H.**, 2008. Polycyclic aromatic hydrocarbons (PAHs) associated with atmospheric particles in Higashi Hiroshima, Japan: Influence of meteorological conditions and seasonal variations. *Atmospheric Research*, **88**: 224-233.

Olasehinde, E. F., Makino, S., Kondo, H., **Takeda, K., Sakugawa, H.**, 2008. Application of Fenton reaction for nanomolar determination of hydrogen peroxide in seawater. *Analytica Chimica Acta*, **627**: 270-276.

Tham, Y. W. F., **Takeda, K., Sakugawa, H.**, 2008. Exploring the correlation of particulate PHAs, sulfur dioxide, nitrogen dioxide and ozone, a preliminary study. *Water, Air, and Soil Pollution*, **194**: 5-12.

宮下幸久・井関和夫・湯川翔太・小池一彦・手塚尚明・浜口昌巳．2008．周防灘における光環境，クロロフィル α 及び濁度の季節・海域変動．広島大学生物圏科学研究科紀要．**47**: 41-51．

田中博・二宮早由子・井関和夫．2008．広島湾元宇品海岸における海藻群落の長期変動．第8回「広島湾研究集会」山・川・海の連関系として水域の持続的生産性を探る．*水産海洋研究*．**72**: 305-308．

浜口昌巳・手塚尚明・山崎誠・井関和夫．2008．包括的環境保全と貝類漁業のあり方について - 山・河川とアサリの関係 - ．第8回「広島湾研究集会」山・川・海の連関系として水域の持続的生産性を探る．*水産海洋研究*．**72**: 311-317．

浅岡 聡・山本民次・山本杏子．2008．造粒石粉を用いた沿岸底質環境改善材開発のための基礎的研究～栄養塩溶出試験および*Skeletonema costatum*の増殖試験～．*水環境学会誌*．**31**: 93-99．

原口浩一・山本民次・片山貴之・山形陽一・松田 治．2008．人工中層海底による養殖場沈降有機物の分解促進．*日水誌*．**74**: 429-431．

Yamamoto, T., Takeshita, K., Hiraga, N., **Hashimoto, T.**, 2008. An estimation of net ecosystem metabolism and net denitrification of the Seto Inland Sea, Japan. *Ecol. Model.*, **215**: 55-68.

浅岡 聡・山本民次・山本杏子．2008．石炭灰造粒物を用いた沿岸底質環境改善材開発のための基礎的研究～栄養塩溶出試験および*Skeletonema costatum*の増殖試験～．*水環境学会誌*．**31**: 455-462．

Yamamoto, T., Goto, I., Kawaguchi, O., Minagawa, K., Ariyoshi, E., Matuda, O., 2008. Phytoremediation of shallow eutrophic marine sediments using benthic microalgae. *Mar. Poll. Bull.* **57**: 108-115.

陸田秀実・黒川剛幸・土井康明・山本民次・橋本俊也．2008．江田島湾における流動・物質収支モデルの構築と広島牡蠣養殖の影響．*海岸工学論文集*．**55**: 1201-1205．

山本民次・橋本俊也・松田 治・郷 秋雄・中口和光・原口浩一．2008．広島湾と周防灘の底質の比較 - とくに季節変動と各項目間の関係について．*日水誌*．**74**: 1037-1042．

山本民次・浅岡 聡・原口浩一．2008．海産付着微細藻*Nitzschia* sp.の増殖に対するHUS®の影響．*広島大学生物圏科学研究科紀要*．**47**: 53-59．

山本民次．2008．河川流量の時間変化に対するエスチュアリー生態系の応答．「森・里・海のつながりと沿岸域の生物生産」(水産学シリーズ, 日本水産学会(監修), 山下 洋編) 恒星社厚生閣, 東京: 61-75．

原口浩一・山本民次．2008．底生微細藻のバイオマスと一次生産．「海洋プランクトン生態学」(谷口 旭(監修), 佐々木洋ほか(編)) 成山堂書店, 東京: 298-321．

山本民次．2008．瀬戸内海底泥からのリン・窒素の溶出．「瀬戸内海の底質環境」(柳 哲雄編) 恒星社厚生閣, 東京: 61-75．

山本民次．2008．「川と海 - 流域圏の科学」(宇野木早苗・山本民次・清野; 馬癩麻) 成産 曇び島野: 298-321 • Š ½ Í . 2008広

- 山本民次 . 2008 . 沿岸海域の物質循環研究におけるモニタリング・データの利用 . 海と空 . **84**: 43-52 .
- Haraguchi, K., Chiba, K., Yamagata, T., **Yamamoto, T.**, Masuda, K., Shimizu, Y., Okumura, H., Kokubu, H., Atsumi, T., 2008. Real-time monitoring of red tide and oxygen deficient water mass formations in Ago Bay, Japan. *Proceedings of 5th World Fisheries Congress*. Yokohama, Japan (CD-ROM).
- Yamamoto, T.**, **Hashimoto, T.**, Matsuda, O., Kawaguchi, O., Kittiwanch, J., Sarker, M.J., Haraguchi, K., Asaoka, S., 2008. Deterioration of sediment quality in Hiroshima Bay: Comparison with the neighboring area, Suo Nada. *Proceedings of 5th World Fisheries Congress*. Yokohama, Japan (CD-ROM).
- 山本民次 . 2008 . 物質循環から見た生物浄化機能による評価技術 . 「スラグ利用に係わる研究開発」平成18年度報告書 ,サブテーマ1-1 「鉄鋼スラグ水和固化体による直立護岸用環境修復技術の開発」 42-52 .
- 山本民次 . 2008 . 石炭灰造粒物の環境改善メカニズムに関する基礎研究 . 平成19年度共同研究報告書 , 21 pp.
- 山本民次 . 2008 . 微小藻類による大気中二酸化炭素固定化技術における製鋼スラグの活用 . (財)鉄鋼業環境保全技術開発基金 , 環境助成研究成果要旨・概要集 (第27回・2006年度助成分) , 78-79 .
- Chaudhary, M.I., Adu-Gyamfi, J.J., **Saneoka, H.**, Nguyen, N.T., Suwa, R., Kanai, S., EL-Shemy, H.A., Lightfoot, D.A., Fujita K., 2008. The effect of phosphorus deficiency on nutrient uptake, nitrogen fixation and photosynthetic rate in mashbean, mungbean and soybean. *Acta Physiol. Plant.* **30**: 537-544.
- Suwa, R., Jayachandra, K., Nguyen, T. N., Boulenouar, A., Fujita, K., **Saneoka, H.**, 2008. Barium toxicity in soybean plants. *Arch. Environ. Contam. Toxicol.* **55**: 397-403.
- Suwa, R., Fujimaki, S., Suzui, N., Kawachi, N., Ishii, S., Sakamoto, K., Nguyen, N.T., **Saneoka, H.**, Mohapatra, P.K., Moghaieb, R.E.A., Matsuhashi, S., Fujita, K., 2008. Use of positron-emitting tracer imaging system for measuring the effect of salinity on temporal and spatial distribution of C-11 tracer and coupling between source and sink organs. *Plant Sci.* **175**: 210-216.
- Kanai, S., Adu-Gyamfi, J.J., Lei, K., Ito, J., Ohkura, K., Moghaieb, R.E.A. , El-Shemy, H.A., Mohapatra, P.K., **Saneoka, H.**

Assessment of Environmental Dynamics 環境評価論講座

- Uye, S., 2008. Management of semi-enclosed sea: case of the Seto Inland Sea. In "Asia-Pacific Coasts and Their Management: State of Environment", Ed. Mimura, N., Springer, Dordrecht, The Netherlands: 199-206.
- Dagg, M., Uye, S., Valdes, L., Harris, R., 2008. Human and climate forcing of zooplankton populations. *ICES J. Mar. Sci.* **65**: 277-278.
- Uye, S., 2008. Bloom of the giant jellyfish *Nemopilema nomurai*: a threat to the fisheries sustainability of the East Asian Marginal Seas. *Plankton Benthos Res.* 3 (Suppl.): 125-131.
- Hayashi, M., Uye, S., 2008. Geographical and seasonal variations in biomass and estimated production rates of net zooplankton in Yatsushiro Bay, Japan. *J. Oceanogr.* **64**: 877-889.
- Schiariti, A., Kawahara, M., Uye, S., Mianzan, H. W., 2008. Life cycle of the jellyfish *Lychnorhiza lucerna* (Scyphozoa: Rhizostomeae). *Mar. Biol.* **156**: 1-12.
- 山本貴広・上 真一, 2008. 太田川の天然遡上アユ復活に向けた取り組み - 産学官の連携調査・研究 - . 水産海洋研究, **72**: 299-301.
- 上 真一, 2008. エチゼンクラゲ大発生にみる海の変質. 科学, **78**: 742-746.
- Yoshida, H., Metcalfe, R., Yamamoto, K., Murakami, Y., Hoshii, D., Kanekiyo, A., Naganuma, T., Hayashi, T., 2008. Redox front formation in an uplifting sedimentary rock sequence: an analogue for redox-controlling processes in the geosphere around deep geological repositories for radioactive waste. *Appl. Geochem.*, **23**: 2364-2381.
- Takashima, C., Kano, A., Naganuma, T., Tazaki, K., 2008. Laminated iron texture by iron-oxidizing bacteria in a calcite travertine. *Geomicrobiol. J.*, **25**: 193-202.
- Hua, N.-P., Amel, H.-C., Vreeland, R. H., Isoda, H., Naganuma, T., 2008. *Virgibacillus salarius* sp. nov., a novel halophilic bacterium isolated from a Saharan salt lake. *Int. J. Syst. Evol. Microbiol.*, **58**: 2409-2414.
- Kuramochi, T., Sudo, Y., Tamaki, E., Shiroma, K., Naganuma, T., 2008. Long-term collection of benthic and benthopelagic organisms from a deep-water inlet, off-Okinawa, Japan. *Mar. Ecol. Prog. Ser.*, **358**: 301-307.
- Yoshida, H., Yamamoto, K., Murakami, Y., Katsuta, N., Hayashi, T., Naganuma, T., 2008. The development of Fe-nodules surrounding biological material mediated by microorganisms. *Environ. Geol.*, **55**: 1363-1374.
- 清水 了・秋山 克・長沼 毅・石島洋二. 2008. 北海道の石炭層と堆積岩断層帯の深部地下水中のメタン生成微生物群集. *バイオインダストリー*. **25**: 53-60.
- 長沼 毅・狩野彰宏・畦 浩二・林 靖弘・平賀博之・丸本 浩. 2008. 広島の風土を題材にした理科教育(風土サイエンス)の研究(1). 広島大学学部・附属学校共同研究機構研究紀要. **36**: 409-414.
- 長沼 毅. 2008. 国際極年(IPY 2007-2008)の中核計画MERGE事始. 極地. **44**(1): 11-20.
- 長沼 毅. 2008. 食べない動物チューブワームと微生物の不思議な共生. 化学と生物. **46**(4): 291-295.
- Koike, K., Takishita, K., 2008. Anucleated cryptophyte vestiges in the gonyaulacalean dinoflagellates *Amylax buxus* and *Amylax triacantha* (Dinophyceae). *Phycol. Res.* **53**: 301-311.
- Kamiya, H., Jimbo, M., Koike, K., Sakai, R., 2008. Roles of coral lectins in the regulation of symbiotic zooxanthella. In "Animal Lectins: A Functional View", Eds. Vasta and Hafiz, CRC Press, New York: 231-238.
- Sakai, R., Yoshida, K., Kimura, K., Koike, K., Jimbo, M., Koike, K., Kobiyama, A., Kamiya, H., 2008. Cellular origin of dysis herbaine, an excitatory amino acid derived from a marine sponge. *ChemBioChem*, **9**: 453-551.
- 小池一彦. 2008. 下痢性貝毒原因プランクトンの増殖とその葉緑体起源生物の出現との関係. 平成17~19年度科学研究費補助金(基盤研究(B))成果報告書. 1780118.

- Blahovec, J., Kuroki S., **Sakurai, N.**, 2008. Precise correction in laser Doppler forced vibrology of soft products. *Biosystems Engineering* **99**:156-160.
- Shigihara, A., Matsumoto, K., **Sakurai, N.**, Igawa, M., 2008. Growth and physiological responses of beech seedlings to long-term exposure of acid fog. *Science of the Total Environment* **391**: 124-131.
- Li, X., **Nakagawa, N.**, **Sakurai, N.**, 2008. Purification and biochemical characterization of cell wall-bound trehalase from pericarp tissues of *Actinidia deliciosa*. *J. Japan. Soc. Hort. Sci.* **77**: 229-235.
- Taniwaki, M., **Sakurai, N.**, 2008. Texture measurement of cabbages using acoustical vibration method. *Postharvest Biol. Technol.* **50**: 176-181.
- Taniwaki, M., Hanada, T., **Sakurai, N.**, 2008. Postharvest quality evaluation of “Fuyu” and “Taishuu” persimmons using a nondestructive vibrational method and an acoustic vibration technique. *Postharvest Biol. Technol.* (in press).
- Shigihara, A., Matsumoto, K., **Sakurai, N.**, Igawa, M., 2008. Leaching of cell wall components caused by acid deposition on fir needles and trees. *Science of the Total Environment* **398**: 185-195.
- Taniwaki, M., Takahashi, M., **Sakurai, M.**, 2008. Determination of optimum ripeness for edibility of postharvest melons using nondestructive vibration. *Food Research International* **42**: 137-141.
- Taniwaki, M., Hanada, T., Tohro, M., **Sakurai, N.**, 2008. Non-destructive determination of the optimum eating ripeness of pears and their texture measurements using acoustical vibration technique. *Postharvest Biol. Technol.* **51**: 305-310
- Kuroki, S., Hanada, T., Tohro, M., Wako, T., Kojima, A., **Sakurai, N.**, 2008. Detection of textural difference between cultivars of bunching onion using the device for acoustic measurement of food texture. *J. Japan. Soc. Hort. Sci.* **77**: 440-446.
- Kohyama, K., Takada, A., **Sakurai, N.**, Hayakawa, F., Yoshiaki, H., 2008. Tensile test of cabbage leaves for quality evaluation of shredded cabbage. *Food Science and Technology Research* **14**: 337-344.
- 中野有加・櫻井直樹・藤路 陽・堀江秀樹・中野明正・鈴木克己．2008．弾性指標を用いたスライストマトの果肉硬度の非破壊評価，*園芸学研究* **7**: 543-5647.
- Kohyama, K., Nagata, A., Tamaki, Y., **Sakurai, N.**, 2008. Comparison of human-bite and instrument puncture tests of cucumber texture. *Postharvest Biol. Technol.* **52**: 243-246.
- 川崎 晃・前田守弘・河野憲治・實示戸雅之．2008．部門別進歩総説 環境 環境保全．*土肥誌* **79**: 638-647.
- 河野憲治．2008．農地からの環境負荷軽減に果たす土壌微生物バイオマスと作物生育の役割 - 特に硝酸性窒素溶脱抑制について - ．2007年度近畿中国四国農業試験研究推進会議生産環境部会問題別研究会：1-6.
- 河野憲治・中越信和・頭山昌郁・上野吉雄・丸本卓哉・小松登志子・尾崎則篤・早川誠而・山崎 互．2008．温井ダム試験植栽報告書及び太田川流域の景観生態学的研究．平成8～19年度国土交通省中国四国地方整備局受託研究報告書：1-2, 2-1, 3-1 - 3-5.
- 中越信和・河野憲治・小松登志子・尾崎則篤・早川誠而．2008．温井ダム緑化学 太田川流域の景観生態学的研究．平成19年度国土交通省中国四国地方整備局受託研究報告書：3-1 - 3-13．
- Sakurai, M., **Wasaki, J.**, Tomizawa, Y., Shinano, T., Osaki, M., 2008. Analysis of bacterial communities on alkaline phosphatase gene in organic matter applied soil. *Soil Sci. Plant Nutr.* **54**: 62-71.
- Wasaki, J.**, Kojima, S., Maruyama, H., Haase, S., Osaki, M., Kandeler, E., 2008. Localization of acid phosphatase activities in roots of white lupin plants grown under phosphorus-deficient conditions. *Soil Sci. Plant Nutr.* **54**: 95-102.
- Haase, S., Rothe, A., Kania, A., **Wasaki, J.**, Römhald, V., Engels, C., Kandeler, E., Neumann, G., 2008. Responses to iron limitation in *Hordeum vulgare* L. as affected by the atmospheric CO₂ concentration. *J. Environ. Qual.* **37**: 1254-1262.
- Taguchi, H., Senoura, T., Hamada, S., Matsui, H., Kobayashi, Y., Watanabe, J., **Wasaki, J.**, Ito, S., 2008. Cloning

and sequencing of the gene for cellobiose 2-epimerase from a ruminal strain of *Eubacterium cellulosolvens*. *FEMS Microbiol. Lett.* **287**: 34-40.

- Nishimukai, M., Watanabe, J., Taguchi, H., Senoura, T., Hamada, S., Matsui, H., Yamamoto, T., **Wasaki, J.**, Hara, H., Ito, S., 2008. Effects of epilactose on calcium absorption and serum lipid metabolism in rats. *J. Agr. Food Chem.* **56**: 10340-10345.
- Watanabe, J., Nishimukai, M., Taguchi, H., Senoura, T., Hamada, S., Matsui, H., Yamamoto, T., **Wasaki, J.**, Hara, H., Ito, S., 2008. Prebiotic properties of epilactose. *J. Dairy Sci.* **91**: 4518-4526.
- 和崎 淳 . 2008 . 植物の低リン適応戦略機作の解明 . (日本土壤肥料学会奨励賞受賞) . *日本土壤肥料学雑誌* , **79**: 452-453.
- Takishita, K., Fujiwara, Y., Kawato, M., Kakizoe, N., Miyazaki, M., **Maruyama, T.**, 2008. Molecular Identification of the Ichthyosporean Protist "*Pseudoperkinsus tapetis*" from the Mytilid Mussel *Adipicola pacifica* Associated with Submerged Whale Carcasses in Japan. *Mar Biotechnol* (NY). **10**: 13-18.
- Kuwahara, H., Takaki, Y., Yoshida, T., Shimamura, S., Takishita, K., Reimer, J. D., Kato, C.,

- dynamics of the toxic bloom-forming *Microcystis aeruginosa* and its cyanophages in freshwater. *Appl. Environ. Microbiol.* **74**: 3269-3273.
- Mizumoto, H., Tomaru, Y., Takao, Y., Shirai, Y., **Nagasaki, K.**, 2008. Diverse responses of the bivalve-killing dinoflagellate *Heterocapsa circularisquama* to infection by a single-stranded RNA virus. *Appl. Environ. Microbiol.* **74**: 3105-3111.
- Shirai, Y., Tomaru, Y., Takao, Y., Suzuki, H., **Nagumo, T.**, Nagasaki, K., 2008. Isolation and characterization of a single-stranded RNA virus infecting the marine planktonic diatom *Chaetoceros tenuissimus* Meunier. *Appl. Environ. Microbiol.* **74**: 4022-4027.
- Nagasaki, K.**, 2008. Dinoflagellates, diatoms and their viruses. *J. Microbiol.* **46**: 235-243.
- Tomaru, Y., Shirai, Y., **Nagasaki, K.**, 2008. Ecology, physiology and genetics of a phycodnavirus infecting the noxious bloom-forming raphidophyte *Heterosigma akashiwo*. *Fisheries Sci.* **74**: 701-711.
- Brussaard, C. P. D., Wilhelm, S. W., Thingstad, F., Weinbauer, M. G., Bratbak, G., Heldal, M., Kimmance, S. A., Middelboe, M., **Nagasaki, K.**, Paul, J. H., Schroeder, D. C., Suttle, C. A., Vaqué, D., Wommack, K. E., 2008. Global scale processes with a nanoscale drive - the role of marine viruses. *ISME J.* **2**: 575-578.
- Koonin, E.V., Wolf, Y. I., **Nagasaki, K.**, Dolja, V. V., 2008. The big bang of picorna-like virus evolution antedates the radiation of eukaryotic supergroups. *Nat. Rev. Microbiol.* **6**: 925-939.
- Nagasaki, K.**, Brussaard, C. P. D., 2008. Algal viruses. In: "Encyclopedia of Virology, Third Edition" ed. Mahy, B., Regenmortel, M. V., Elsevier, Oxford, UK. Vol.1, p.87-95.
- Nagasaki, K.**, Mizumoto, H., Takao, Y., Shirai, Y., Tomaru, Y., 2009. Molecular ecology of viruses infectious to HAB-causing microalgae. Proceedings of the 5th World Fisheries Congress, 6c_0994_098, TerraPub, Tokyo.
- Shimizu, A., **Hamaguchi, M.**, Ito, H., Ohkubo, M., Udagawa, M., Fujii, K., Kobayashi, T., and Nakamura, M. 2008. Appearances and chronological changes of mummichog *Fundulus heteroclitus* FSH cells and LH cells during ontogeny, sexual differentiation, and gonadal development. *General and Comparative Endocrinology.* **156**: 312-322.
- Yasuda, N., Nagai, S., Lian, C. L., **Hamaguchi, M.**, Hayashibara, T., Nadaoka, L. 2008. Identification and characterization of microsatellite loci in the blue coral *Heliopora coerulea* (Alcyonaria: Coenothecalia). *Conservation Genetics.* **9**: 1011-1013.
- 宮下幸久・井関和夫・湯川翔太・小池一彦・手塚尚明・浜口昌巳．2008．周防灘における光環境，クロロフィル a 及び濁度の季節・海域変動．広島大学生物生産学部紀要**47**: 41-51．
- 堀 正和・吉田吾郎・浜口昌巳・山崎 誠．2008．陸 - 海相互作用系における藻場の役割．水産海洋研究．**72**: 301-304．
- 浜口昌巳・手塚尚明・山崎誠・井関和夫．2008．包括的環境保全と貝類漁業のあり方について．水産海洋研究．**72**: 311-317．
- 吉田吾郎・八谷光介・寺脇利信．2008．天然および水槽培養下における褐藻ホンダワラの成長様式．藻類．**56**: 1-8．
- 寺脇利信・吉田吾郎・馬場将輔・藤田大介．2008．お掃除フリーの海藻栽培水槽の試み．13 壁面での無節サンゴモ類の生長におよぼす光量の影響．海苔と海藻．**74**: 38-42．
- 吉田吾郎・荒武久道・寺脇利信．2008．室内培養下の褐藻マメタワラの成長・成熟特性．藻類．**56**: 179-184．