

**List of Papers by the staff of the Graduate School of Biosphere Science,  
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**広島大学大学院生物圏科学研究科教員業績目録**

(2009年1月-2010年3月)

**Animal Science Division 陸域動物生産学講座**

- Ghanem, M. E., **Nishibori, M.**, 2009. Genetic description of Factor XI deficiency in Holstein semen in western Japan. **44**: 792-796.
- Ghanem, M. E., Suzuki, T., Akita, M., **Nishibori, M.**, 2009. and complex vertebral malformation as possible causes of bovine fetal mummification. **50**: 389-392.
- Ghanem, M. E., Suzuki, T., Kasuga, A., **Nishibori, M.**, 2009. Effect of complex vertebral malformation on luteal function in Holstein cows during oestrous cycle and early pregnancy. **45**: 729-733.
- Goto, T., Ishikawa, A., Onitsuka, S., Goto, N., Fujikawa, Y., Umino, T., **Nishibori, M.**, **Tsudzuki, M.**, 2009. Quantitative trait loci for eggshell-related traits in the F<sub>2</sub> families from the Oh-Shamo (Japanese Large Game) and White Leghorn. **88** (Suppl. 1): 88.
- Hla Hla Moe, Shimogiri, T., Kawabe, K., **Nishibori, M.**, Hashiguchi, T., Okamoto, S., Maeda, Y., 2009. Genotypic frequency in Asian native chicken populations and gene expression using insulin-like growth factor I ( ) gene promoter polymorphism. **46**: 1-5.
- Ialam, M. A., **Nishibori, M.**, 2009. Indigenous naked neck chicken: a valuable genetic resource for Bangladesh. **65**: 125-138.
- 西堀正英 . 2009. ニワトリ—原種から家禽へ—「アジアの在来家畜【家畜の起源と系統史】」(在来家畜研究会編). 名古屋大学出版会, 名古屋, 357-390 .
- Rezaeian, A. H., **Nishibori, M.**, Hiraiwa, N., Yoshizawa, M., Yasue, H., 2009. Expression profile and localization of mouse sense/antisense transcripts at pre- and postnatal tissue development. **71**: 561-568.
- Shimogiri, T., **Nishibori, M.**, Hiraiwa, H., Hayashi, T., Yasue, H., 2009. Assignment of 128 genes localized on human chromosome 14q to the IMpRH map. **40**: 538-542.
- Tadano, R., **Nishibori, M.**, **Tsudzuki, M.**, 2009. Genetic structure and differentiation of the Japanese extremely long-tailed chicken breed (Onagadori), associated with plumage colour variation: suggestions for its management and conservation. **40**: 989-992.
- 都築政起・後藤直樹 . 2009 . ニワトリおよびウズラにおける遺伝育種学的研究の100年 . *日本家禽学会誌* . **46** (J1): J23-J29.
- 都築政起 . 2009 . ニワトリ育種の過去・現在・10年後 . *動物遺伝育種研究* . **37**: 161-164.
- Kanyinji, F., Kumagai, H., **Maeda, T.**, Kaneshima, D., Yokoi, D., 2009. Effects of supplementary inosine on nutrient digestibility, ruminal fermentation and nitrogen balance in goats fed high amount of concentrate. **152**: 12-20.
- 前田照夫 . 2009 . クローン牛, 肉やミルクは安全か? *化学と生物* . **47**: 217-221.
- Matsuura, D., **Maeda, T.**, 2009. Embryo development of porcine oocytes after injection with miniature pig sperm and their extracts. **81**: 644-648.
- Bungo, T.**, Shiraishi, J.-I., Yanagita, K., Ohta, Y., **Fujita, M.**, 2009. Effect of nociceptin/orphanin FQ on feeding

- behavior and hypothalamic neuropeptide expression in neonatal chicks. **163**: 47-51.
- Shiraishi, J.-i., Yanagita, K., Nishikawa, F., Tahara, Y., **Fujita, M.**, McMurtry, J. P., **Bungo, T.**, 2009. A comparison of the anorexic effects of chicken, porcine, human and bovine insulin on the central nervous system of chicks. **46**: 144-148.
- Abdel Mageed, A. M., **Isobe, N.**, **Yoshimura, Y.**, 2009. Immunolocalization of avian  $\beta$ -defensins in the hen oviduct and their changes in the uterus during eggshell formation. **138**: 971-978.
- Das, S., **Isobe, N.**, **Yoshimura, Y.**, 2009. Changes in the expression of interleukin-1 $\beta$  and lipopolysaccharide-induced TNF factor in the oviduct of laying hens in response to artificial insemination. **137**: 527-536.
- Isobe, N.**, Hosoda, K., **Yoshimura, Y.**, 2009. Immunolocalization of lingual antimicrobial peptide (LAP) in the bovine mammary gland. **80**: 446-450.
- Isobe, N.**, Morimoto, K., Nakamura, J., Yamasaki, A., **Yoshimura, Y.**, 2009. Intramammary challenge of lipopolysaccharide stimulates secretion of lingual antimicrobial peptide into milk of dairy cows. **92**: 6046-6051.
- Isobe, N.**, Nakamura, J., Nakano, H., **Yoshimura, Y.**, 2009. Existence of functional lingual antimicrobial peptide (LAP) in bovine milk. **92**: 2691-2695.
- Kawarasaki, T., Otake, M., Tsuchiya, S., Shibata, M., Matsumoto, K., **Isobe, N.**, 2009. Co-transfer of parthenogenotes and single porcine embryos leads to full-term development of the embryos. **112**: 8-21.
- 森本和秀・清水 和・黒瀬智泰・中谷啓二・秋田真司・篠塚康典・磯部直樹．2009．下痢予防用大腸菌不活化ワクチンの接種による乳房炎死産事故低減効果．*広島県獣医学会雑誌*．**24**: 5-9.
- 森本和秀・吉村知子・大坂隆志・長尾かおり・新出昭吾・磯部直樹．2009．下痢予防用牛大腸菌不活化ワクチンと J5株の血清学的交差性の解析．*広島県獣医学会雑誌*．**24**: 51-54.
- 中村順平・中桐宏子・窪田浩和・積山嘉昌・吉村幸則・磯部直樹．2009．牛乳中 Lingual Antimicrobial Peptide (LAP) 濃度の測定とその体細胞数との関係．*広島大学 報告*．**6**: 1-3.
- 尾形康弘・日高健雅・松重忠美・磯部直樹・前田照夫．2009．受精胚移植を目的とした発情同期化処置時の卵巣所見について．*広島県獣医学会雑誌*．**24**: 11-15.
- Ozoe, A., **Isobe, N.**, **Yoshimura, Y.**, 2009. Expression of Toll-like receptors (TLRs) and TLR4 response to lipopolysaccharide in hen oviduct. **127**: 259-268.
- Utsumi, T., **Yoshimura, Y.**, 2009. Sensitive embryonic endpoints with in ovo treatment for detecting androgenic BP

- Yoshita, Y., Yamanoue, Y., Sagara, K., Nishibori, M., Kuniyoshi, H., **Umino, T., Sakai, Y., Hashimoto, H., Gushima, K.**, 2009. Phylogenetic relationship of two sunfishes (Tetraodontiformes: Molidae) occurring around the coast of Japan, with notes on their geographical distribution and morphological characteristics. *Journal of Fish Biology*. **56**: 232-244.
- Kawai, K.**, Inoue, E., **Imabayashi, H.**, 2009. *Parasitology* (Tokunaga, 1936: transfer to the genus *Parasitology* and redescription of the male. *Journal of Fish Biology*. **60**: 81-85.
- Blanco Gonzalez, E., Murakami, T., Yoneji, T., **Nagasawa, K., Umino, T.**, 2009. Reduction in size-at-age of black sea bream (*Mullus barbatus*) following intensive releases of cultured juveniles in Hiroshima Bay, Japan. *Journal of Fish Biology*. **99**: 130-133.
- 平田 靖・田村義信・長澤和也. 2009. マガキ成貝飼育海水へ浸漬した採苗器への幼生付着率に及ぼす幼生サイズおよび餌条件の影響. *日本水産学会誌*. **75**: 1036-1041.
- 岩本有司・三代和樹・森田拓真・上村泰洋・水野健一郎・海野徹也・小路 淳. 2009. 広島湾奥部の砂浜海岸に出現する仔稚魚. *水産増殖*. **57**: 639-643.
- 水野晃秀・長澤和也. 2009. わが国におけるオオウナギの地理的分布の現状. *日本生物地理学会会報*. **64**: 79-87.
- Nagasawa, K.**, Fukuda, Y., 2009. A record of a crustacean parasite (Branchiura: Argulidae) in finfish mariculture in Japan. *Journal of Fish Biology*. **48**: 37-41.
- Nagasawa, K.**, Hirai, M., 2009. Greater amberjack (*Seriola lalandi*), a new host of *Hirudinina* (Hirudinida, Piscicolidae) in Japanese mariculture. *Journal of Fish Biology*. **11**: 9-11.
- Nagasawa, K.**, Petchsupa, N., 2009. *Argulus* (Isopoda, Cymothoidae) parasitic on bigeye scad (*Acanthopagrus major*) in Thailand. *Journal of Fish Biology*. **11**: 131-133.
- Nagasawa, K.**, Sakaoka, K., 2009. First record of *Hirudinina* (Hirudinida, Piscicolidae) as prey for *Salmo gairdneri* (Teleostei, Salmonidae). *Journal of Fish Biology*. **11**: 13-16.
- Nagasawa, K.**, Tanaka, M., 2009. The fish leech (*Hirudinina*, Piscicolidae) invaded Kyoto Prefecture, central Japan. *Journal of Fish Biology*. **11**: 17-21.
- Nagasawa, K.**, Uyeno, D., 2009. *Hirudinina* (Hirudinida, Piscicolidae), a leech infesting brackish-water fishes, new to Japan. *Journal of Fish Biology*. **11**: 125-130.
- Nagasawa, K.**, Kikuchi, M., Arakane, Y., Yusa, S., 2009. New data on the hosts and attachment sites of the fish leech (*Hirudinina*, Piscicolidae). *Journal of Fish Biology*. **11**: 3-8.
- Nagasawa, K.**, Izumikawa, K., Yamanoi, H., **Umino, T.**, 2009. New hosts, including marine fishes cultured in Japan, of *Hirudinina* (Hirudinida: Piscicolidae). *Journal of Fish Biology*. **76**: 127-129.
- Nagasawa, K.**, Park, S.-W., Kim, Y.-G., Kim, H. J., 2009. *Hirudinina*, a leech associated with mortality in a wild population of Japanese crucian carp *Carassius cuvieri* in Korea. *Journal of Fish Biology*. **48**: 49-53.
- 長澤和也. 2009. 日本産魚類に寄生するチョウ属エラオ類の目録(1900-2009年). *日本生物地理学会会報*. **64**: 135-148.
- 長澤和也. 2009. メガマウスザメに寄生するカイアシ類, メガマウスザメジラミ. *板鰓類研究会報*. **45**: 39-43.
- 長澤和也. 2009. 海水魚のヒダビル症. *養殖*. **46**(1): 102.
- 長澤和也. 2009. フナ類のフナヒモセンチュウ症. *養殖*. **46**(5): 102.
- 長澤和也. 2009. マス類のチョウモドキ症. *養殖*. **46**(7): 102.
- 長澤和也. 2009. ヒラメのマツイウミチョウ症. *養殖*. **46**(13): 94.
- 長澤和也・萩原宗一・土屋泰久. 2009. 日本産板鰓類に寄生するヒル類と水族館におけるアカメウミビルの寄生. *月刊海洋/号外: 板鰓類の魅力と多様性*. **52**: 37-41.
- 長澤和也・上野大輔・栃本武良. 2009. 本州西部で採集されたチョウとチョウモドキ. *生物圏科学*. **48**:

- 43-47.
- Saito, T., **Nagasawa, K.**, 2009. Regional synchrony in return rates of chum salmon ( ) in Japan in relation to coastal temperature and size at release. . **95**: 14-27.
- Saito, T., Shimizu, I., Seki, J., **Nagasawa, K.**, 2009. Relationship between zooplankton abundance and the early marine life history of juvenile chum salmon in eastern Hokkaido, Japan. . **75**: 303-316.
- Uyeno, D., **Nagasawa, K.**, 2009. Redescription of four species of (Copepoda: Siphonostomatoida: Hatschekiidae) parasitic on tetraodontiform fishes from Japan. **2110**: 1-21.
- Uyeno, D., **Nagasawa, K.**, 2009. Three new species of Poche, 1902 (Copepoda: Siphonostomatoida: Hatschekiidae) parasitic on *fi* (Pisces: Tetraodontiformes: Balistidae) from off Okinawa, Japan. . **74**: 225-237.
- Venmathi Maran, B. A. V., Leong, T. S., **Ohtsuka, S., Nagasawa, K.**, 2009. Records of (Crustacea: Copepoda: Caligidae) from marine fishes cultured in floating cages in Malaysia with a redescription of the male of Bassett-Smith, 1898. . **48**: 797-802.
- Fujikawa, Y., **Uematsu, K., Iijima, N.**, 2009. cDNA cloning and expression of a novel group IB phospholipase A2 in the intestine of the red sea bream, ( ) . **75**: 453-461.
- Kobayashi, N., **Yoshida, M.,** Matsumoto, N., **Uematsu, K.**, 2009. Artificial control of swimming in goldfish by brain stimulation: confirmation of the midbrain nuclei as the swimming center. . **452**: 42-46.
- 吉田将之 . 2009 . サカナの記憶と学習「動物の多様な生き方」第4巻 動物は何を考えているのか？ 学習と記憶の比較生物学, 日本比較生理生化学会編, 共立出版, 東京 : 82-97.
- Yoshida, M.,** Hirano, R., Shima, T., 2009. Photocardiography: a novel method for monitoring cardiac activity in fish. . **26**: 356-361.
- Yoshida, T., Masui, Y., Eki, R., Iwata, A., **Yoshida, M., Uematsu, K.**, 2009. A neural signal detection amplifier with low-frequency noise suppression. : 661-664.
- Gomez, D. K., Matsuoka, S., Mori, K., **Okinaka, Y.,** Park, S. C., **Nakai, T.**, 2009. Genetic analysis and pathogenicity of betanodavirus isolated from wild redspotted grouper with clinical signs. . **154**: 343-346.
- Kim, J. H., Gomez, D. K., **Nakai, T.,** Park, S. C., 2009. Isolation and identification of bacteriophages infecting ayu specific . **140**: 109-115.
- Madinabeitia, I., **Nakai, T.,** Ohtsuka, S., Okuda, J., Iwamoto, E., Yoshida, T., Furukawa, M., Nakaoka, N., 2009. Homogeneity among isolates from striped jack (Bloch & Schneider) and its ectoparasites. . **32**: 901-905.
- Nakai, T.,** Mori, K., Sugaya, T., Nishioka, T., Mushiake, K., Yamashita, H., 2009. Current knowledge on viral nervous necrosis (VNN) and its causative betanodaviruses. **61**: 198-207.
- Okuda, J., Kiriya, M., Suzaki, E., Kataoka, K., Nishibuchi, M., **Nakai, T.**, 2009. Characterization of proteins secreted from a Type III secretion system of and their roles in macrophage infection. . **84**: 115-121.
- Pakingking, R. Jr., Seron, R., dela Peña, L., Mori, K., Yamashita, Y., **Nakai, T.**, 2009. Immune responses of Asian sea bass, Bloch, against the inactivated betanodavirus vaccine. **32**: 457-463.
- Pirarat, N., Katagiri, T., Maita, M., **Nakai, T.,** Endo, M., 2009. Viral encephalopathy and retinopathy in hatchery-reared juvenile thread-sail filefish ( ). **288**: 349-352.
- Pirarat, N., Ponpornpisit, A., Traithong, T., **Nakai, T.,** Katagiri, T., Maita, M., Endo, M., 2009. Nodavirus associated with pathological changes in adult spotted coral groupers ( )

- in Thailand with viral nervous necrosis. . **87**: 97-101.
- Sakai, T., Yuasa, K., Ozaki, A., Sano, M., Okuda, R., **Nakai, T.**, Iida, T., 2009. Genotyping of isolates in Japan using amplified-fragment length polymorphism analysis. . **49**: 443-449.
- Sugaya T., Mori, K., Nishioka, T., Masuma, S., Oka, M., Mushiake, K., **Okinaka, Y., Nakai, T.**, 2009. Genetic heterogeneity of betanodaviruses in juvenile production trials of Pacific bluefin tuna, (Temminck & Schlegel). . **32**: 815-823.
- Yamashita, H., Mori, K., **Nakai, T.**, 2009. Protection conferred against viral nervous necrosis by simultaneous inoculation of aquabirnavirus and inactivated betanodavirus in the sevenband grouper, (Thunberg). . **32**: 201-210.
- Yamashita, H., Mori, K., Kuroda, A., **Nakai, T.**, 2009. Neutralizing antibody levels for protection against betanodavirus infection in sevenband grouper, (Thunberg), immunized with an inactivated virus vaccine. . **32**: 767-775.

#### Food and Resource Economics Division 食料資源経済学講座

- 矢野 泉 . 2009 . 今日の食品安全行政と消費者意識の懸隔の解消に向けての一考察 . *農業・農協問題研究* . **41**: 28-38.

#### Field Sciences in Setouchi Areas Division 瀬戸内圏フィールド科学教育研究センター

- 堀見敏洋・木場有紀・三上崇徳・森元真理・谷田 創 . 2009 . 広島県の私立幼稚園におけるウサギの飼育状態に関する調査 . *こども環境学会誌* . **13**: 88-93.
- 木場有紀・谷田 創 . 2009 . 学部授業科目「フィールド科学演習」を通して考えるフィールド科学教育－援農ボランティア実習を振り返りながら－ . *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* . **6**: 5-13.
- 木場有紀・坂口実香・村岡里香・小櫃剛人・谷田 創 . 2009 . 広島県呉市上蒲刈島におけるイノシシの食性 . *哺乳類科学* . **49**: 207-215.
- 木場有紀・渡辺 恵・高橋健太郎・藤井賢一・増岡史朗・宮原達也・望月翔太・橋本 昭・谷田 創 . 2009 . 高齢者福祉施設における犬を介在させたAAAに対する施設利用者・職員・活動実施者の意識の比較 . *ヒトと動物の関係学会誌* . **23**: 60-68.
- Koba, Y., Munksgaard, L., Pedersen, L., **Tanida, H.**, 2009. Ability of heifers to discriminate between familiar herdmates and members of an unfamiliar group: preference test and operant conditioning test. . **80**: 98-103.
- 三上崇徳・木場有紀・谷田 創 . 2009 . 幼稚園で飼育されているウサギに対する環境エンリッチメント器具の開発－ラビットパロウの導入の効果の検討－ . *日本動物介在教育・療法学雑誌* . **1**: 17-24.
- 村岡里香・木場有紀・谷田 創 . 2009 . 広島県中山間地域におけるイノシシ被害の圃場侵入経路と被害要因に関する調査～北広島町大朝のイノシシによる農作物被害と痕跡調査より～ . *ヒトと動物の関係学会誌* . **24**: 71-77.
- 谷田 創・木場有紀 . 2009 . 猫と人の関係を考える－猫と人のより良い関係を作るために－1. 人と猫との結びつき (紺野 耕 監修, 猫を科学する). 養賢堂, 東京: 2-11.
- 谷田 創・木場有紀・三上崇徳・金岡美幸・池田明子・掛 志穂・吉原智恵美・君岡智央・中山英充子・井上由子・山中覚美・東加奈子・有村由香 . 2009 . 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 . *広島大学学部・附属学校共同研究紀要* . **37**: 150-156.

- 岩本有司・三代和樹・森田拓真・上村泰洋・水野健一郎・海野徹也・小路 淳．2009．広島湾奥部の砂浜海岸に出現する仔稚魚．*水産増殖*．**57**: 639-643.
- Kamimura, Y., **Shoji, J.**, 2009. Seasonal changes in the fish assemblage in a mixed vegetation area of seagrass and macroalgae in the central Seto Inland Sea. *Journal of Applied Ichthyology* . **57**: 233-241.
- Komatsu, H., **Ohtsuka, S.**, 2009. A new species of the genus *Pinnotheridea* (Crustacea, Decapoda, Brachyura, Pinnotheridae) from the Ryukyu Islands, southwestern Japan, with taxonomic notes on the genus. *Journal of Applied Ichthyology* , **35**: 73-81.
- Madinabeitia, I., **Ohtsuka, S.**, Okuda, J., Iwamoto, E., Yoshida, T., Furukawa, M., Nakaoka, N., Nakai, T., 2009. Homeogeneity among *Pinnotheridea* isolates from striped jack, *Morone chrysops* (Bloch & Schneider) and its ectoparasites. *Journal of Applied Ichthyology* . **32**: 901-905.
- 西川 淳・Thu, N. T.・Yusoff, F. M.・Lindsay, D. J.・Mulyadi・Mujiono, N.・大塚 攻・西田周平．2009．東南アジア，特にベトナム，インドネシア，マレーシアにおけるクラゲ漁業．*月刊海洋*．**41**: 401-411.
- Ohtsuka, S.**, Koike, K., Lindsay, D. J., Nishikawa, J., Miyake, H., Kawahara, M., Mulyadi, Mujiono, N., Hiromi, J., Komatsu, H., 2009. Symbionts of marine medusae and ctenophores. *Journal of Applied Ichthyology* . **4**: 1-13.
- Ohtsuka, S.**, Takami, I., Venmathi Maran, B. A., Ogawa, K., Shimono, T., Fujita, Y., Asakawa, M., Boxshall, G. A., 2009. Developmental stages and growth of *Caligina* Yamaguti, 1936 (Copepoda: Siphonostomatoida: Caligidae) host-specific to puffer. *Journal of Applied Ichthyology* . **43**: 1779-1804.
- 大塚 攻・谷村 篤・町田龍二・西田周平．2009．浮遊性カイアシ類の両極および赤道分布について．*化石*．**85**: 6-13.
- 清水則雄・河田晃大・松浦靖浩・重田利拓・坂井陽一・橋本博明・大塚 攻．2009．瀬戸内海大崎上島沿岸より採集された熱帯・暖海性魚類ソウシハギ (*Monacanthidae*): 来遊背景の一考察．*広島大学総合博物館研究報告*．**1**: 85-89.
- 小路 淳．2009．藻場とさかな 一魚類生産学入門ー (ベルソープックス032),成山堂書店,東京: 1-178．
- Shoji, J.**, Mizuno, K., Yamamoto, M., Miller, T., Hamaoka, H., Ohmori, K., 2009. Spatial distribution and dietary overlap between ichthyoplankton and moon jellyfish *Aurelia* in the Seto Inland Sea, Japan. *Journal of Applied Ichthyology* . **73**: 191-198.
- Shoji, J.**, Kamimura, Y., Fujiki, C., 2009. Macro-algae habitat as fish nursery: evaluation of function as predation refuge. In "Integrated Coastal Zone Management", Ed. Erlend Moksness, Einar Dahl and Josianne Støttrup, Wiley-Blackwell Publishing, UK: 50-56.
- Suzuki, N., Ogane, K., Aita, Y., Kato, M., Sakai, S., Kurihara, T., Matsuoka, A., **Ohtsuka, S.**, **Go, A.**, Nakaguchi, K., Yamaguchi, S., Takahashi, T., Tuji, A., 2009. Distribution patterns of the radiolarian nuclei and symbionts using DAPI-fluorescence. *Journal of Applied Ichthyology* , **35**: 169-182.
- Venmathi Maran, B. A., Seng, L. T., **Ohtsuka, S.**, Nagasawa, K., 2009. Records of *Caligina* (Crustacean: Copepoda: Caligidae) from marine fish cultured in floating cages in Malaysia with a redescription of the male of *Caligina* Basset-Smith, 1898. *Journal of Applied Ichthyology* . **48**: 797-807.

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

- Horigome, C., Ikeda, R., Okada, T., Takenami, K., **Mizuta, K.**, 2009. Genetic interaction between ribosome biogenesis and inositol polyphosphate metabolism in *Caligina*. *Journal of Applied Ichthyology* . **73**: 443-446.
- Kobayashi, Y., Sonoyama, T., Takeda, T., **Sambongi, Y.**, 2009. Effects of cysteine introduction into three homologous cytochromes *Caligina*. *Journal of Applied Ichthyology* . **73**: 1227-1229.
- Obuchi, M., Kawahara, K., Motooka, D., Nakamura, S., Yamanaka, M., Takeda, T., Uchiyama, S., Kobayashi, Y.,

- Ohkubo, T., **Sambongi, Y.**, 2009. Hyperstability and crystal structure of cytochrome <sub>555</sub> from hyperthermophilic **65**: 804-813.
- Sonoyama, T., Hasegawa, J., Uchiyama, S., Nakamura, S., Kobayashi, Y., **Sambongi, Y.**, 2009. Stability enhancement of cytochrome c through heme deprotonation and mutations. **139**: 37-41.
- Takeda, T., Sonoyama, T., Takayama, S. J., Mita, H., Yamamoto, Y., **Sambongi, Y.**, 2009. Correlation between stability and redox potential of three homologous cytochromes from two thermophiles and one mesophile. **73**: 366-371.
- 若井 暁・三本木至宏・2009・微生物による無機硫黄化合物の酸化—研究の現状と未来— . 極限環境微生物学会誌10周年特別号 . **8**: 39-43.
- Yamanaka, M., Mita, H., Yamamoto, Y., **Sambongi, Y.**, 2009. Heme is not required for cytochrome <sub>555</sub> polypeptide folding. **73**: 2022-2025.
- Guan, X. L., Souza, C. M., Pichler, H., Dewhurst, G., Schaad, O., Kajiwara, K., Wakabayashi, H., Ivanova, T., Castillon, G. A., Piccolis, M., Abe, F., Loewith, R., **Funato, K.**, Wenk, M. R., Riezman, H., 2009. Functional interactions between sphingolipids and sterols in biological membranes regulating cell physiology. **20**: 2083-2095.
- Badejo, A. A., **Fujikawa, Y., Esaka, M.**, 2009. Gene expression of ascorbic acid biosynthesis related enzymes of the Smirnoff-Wheeler pathway in acerola ( ). **166**: 652-660.
- Badejo, A. A., Eltelib, H. A., Fukunaga, K., **Fujikawa, Y., Esaka, M.**, 2009. Increase in ascorbate content of transgenic tobacco plants overexpressing the acerola ( ) phosphomannomutase gene. **50**: 423-428.
- Fujikawa, Y., Uematsu, K., Iijima, N.**, 2009. cDNA cloning and expression of a novel group IB phospholipase A<sub>2</sub> in the intestine of the red sea bream, ( ). **75**: 453-461.
- Harada, S., Uchida, M., **Shimizu, N.**, 2009. Episomal high copy number maintenance of hairpin-capped DNA bearing a replication initiation region in human cells. **284**: 24320-24327.
- Shimizu, N.**, 2009. Extrachromosomal double minutes and chromosomal homogeneously staining regions as probes for chromosome research. **124**: 312-326.
- Utani, K., Shimizu N.**, 2009. How transcription proceeds in a large artificial heterochromatin in human cells. **37**: 393-404.
- Takeuchi, T., **Honda, K.**, 2009. Early comers become owners: Effect of residency experience on territorial contest dynamics in a lyceanid butterfly. **115**: 767-773.
- Ômura, H., Honda, K.**, 2009. Behavioral and electroantennographic responsiveness of adult butterflies of six nymphalid species to food-derived volatiles. **19**: 227-234.
- Ômura, H., Watanabe, M., Honda, K.**, 2009. Cuticular hydrocarbons of larva and pupa of Reverdin's blue, (Lycaenidae) and its tending ants. **60**: 203-210.
- Nishimichi, N., Higashikawa, F., Kinou, Hayashida, H., Tateishi, Y., **Matsuda, H.**, Yokosaki, Y., 2009. Polymeric osteopontin employs integrin alpha9beta1 as a receptor and attracts neutrophils by presenting a de novo binding site. **284**: 14769-14776.
- Elazab, M. F., **Fukushima, Y., Fujita, Y., Horiuchi, H., Matsuda, H., Furusawa, S.**, 2009. Induction of immune suppression in the chick by an optimal dose of an immunizing antigen in the presence of its specific maternal antibody. **72**: 276-262.
- Elazab, M. F., **Fukushima, Y., Horiuchi, H., Matsuda, H., Furusawa, S.**, 2009. Prolonged suppression of chick humoral immune response by antigen specific maternal antibody. **71**: 417-424.
- Iwamoto, S., Nishimichi, N., Tateishi, Y., Sato, Y., **Horiuchi, H., Furusawa, S., Sawamura, T., Matsuda, H.**, 2009. Generation and characterization of chicken monoclonal antibodies against human LOX-1.



- . 1: 357-363.
- 大原健一・景山哲史・桑田知宣・海野徹也・古澤修一・吉浦康寿．2009．リアルタイム PCR を用いたアユ冷水病魚における  $\alpha$  2 型 TNF の定量性の検討．*日本水産学会誌*．**75**: 259-260.
- 阿賀美穂・新井紀恵・大橋英美子・有安利夫・新井成之・岩城完三・太田恒孝・福田恵温．2009．プロボリスエキスによる3T3-L1前駆脂肪細胞のインスリン抵抗性改善作用．*日本食品化学工学会誌*．**56**: 31-39.
- Mukai, Y., Nakamura, T., Yoshioka, Y., Shibata, H., Abe, Y., Nomura, T., Taniai, M., **Ohta, T.**, Nakagawa, S., Tsunoda, S., Kamada, H., Yamagata, Y., Tsutsumi, Y., 2009. Fast binding kinetics and conserved 3D structure underlie the antagonistic activity of mutant TNF: useful information for designing artificial proteo-antagonists. *Journal of Molecular Biology*. **146**: 167-172.
- Mukai, Y., Shibata, H., Nakamura, T., Yoshioka, Y., Abe, Y., Nomura, T., Taniai, M., **Ohta, T.**, Ikemizu, S., Nakagawa, S., Tsunoda, S., Kamada, H., Yamagata, Y., Y. Tsutsumi, Y., 2009. Structure-function relationship of tumor necrosis factor (TNF) and its receptor interaction based 3D structural analysis of a fully active TNFR1-selective TNF mutant. *Journal of Molecular Biology*. **385**: 1221-1229.
- Nomura, T., Abe, Y., Kamada, H., Inoue, M., Kawara, T., Arita, S., Furuya, T., Yoshioka, Y., Shibata, H., Kayamuro, H., Yamashita, T., Nagano, K., Yoshikawa, T., Mukai, Y., Nakagawa, S., Taniai, M., **Ohta, T.**, Tsunoda, S., Tsutsumi, Y., 2009. Novel protein engineering strategy for creating highly receptor-selective mutant TNFs. *Journal of Molecular Biology*. **388**: 667-671.
- Shibata, H., Yoshioka, Y., Abe, Y., Ohkawa, A., Nomura, T., Minowa, K., Mukai, Y., Nakagawa, S., Taniai, M., **Ohta, T.**, Kamada, H., Tsunoda, S., Tsutsumi, Y., 2009. The treatment of established collagen-induced arthritis with a TNFR1-selective antagonistic mutant TNF. *Journal of Molecular Biology*. **30**: 6638-6647.
- Ushio, C., Ariyasu, H., Ariyasu, T., Arai, S., **Ohta, T.**, Fukuda, S., 2009. Suppressive effects of a cyanine dye against herpes simplex virus (HSV)-1 infection. *Journal of Molecular Biology*. **30**: 365-368.
- Yamamoto, K., Taniai, M., Torigoe, K., Yamamoto, S., Arai, N., Suemoto, Y., Yoshida, K., Okura, T., Mori, T., Fujioka, N., Tanimoto, T., Miyata, M., Ariyasu, H., Ushio, C., Fujii, M., Ariyasu, T., Ikeda, M., **Ohta, T.**, Kurimoto, M., Fukuda, S., 2009. Creation of interferon- $\alpha$ 8 mutants with amino acid substitutions against interferon- $\alpha$  receptor-2 binding sites using phage display system and evaluation of their biologic properties. *Journal of Molecular Biology*. **29**: 161-169.
- Koya-Miyata, S., Arai, N., Mizote, A., Taniguchi, Y., **Ushio, S.**, Iwaki, K., Fukuda, S., 2009. Propolis prevents diet-induced hyperlipidemia and mitigates weight gain in diet-induced obesity in mice. *Journal of Molecular Biology*. **32**: 2022-2028.
- 牛尾慎平・藤井光清・福田恵温．2009．タンパクフリーローヤルゼリーの開発とその生物作用．*Journal of Molecular Biology*. **51**: 1-6.
- 牛尾慎平・三宅正樹・谷口美文・福田恵温．2009．タンパクフリーローヤルゼリーの開発．*Journal of Molecular Biology*. **26**: 50-55.
- Mori, T., **Nishimoto, T.**, Mukai, K., Watanabe, H., Okura, T., Chaen, H., Fukuda, S., 2009. Enzymes involved in the biosynthesis and degradation of cyclic maltosyl-maltose in *Aspergillus niger* M6. *Journal of Molecular Biology*. **56**: 127-136.
- Tsusaki, K., Watanabe, H., **Nishimoto, T.**, Yamamoto, T., Kubota, M., Chaen, H., Fukuda, S., 2009. Structure of a novel highly branched  $\alpha$ -glucan enzymatically produced from maltodextrin. *Journal of Molecular Biology*. **344**: 2151-2156.



**Food Science and Biofunctions 食資源科学講座**

- Le, DH., **Hori, K.**, Quang HN., 2009. Screening and preliminary characterization of hemagglutinins in Vietnamese marine algae. *Food Science and Biofunctions* . **21**: 89-97.
- Le, DH., **Hori, K.**, Quang HN., Kha, T., Le HT., 2009. Seasonal changes in growth rate, carrageenan yield and lectin content in the red alga *Gelidium coulteri* cultivated in Camranh Bay, Vietnam. *Food Science and Biofunctions* . **21**: 265-272.
- Le, DH., Sato, T., Shibata, H., **Hori, K.**, 2009. Biochemical comparison of lectins among three different color strains of the red alga *Gelidium coulteri*. *Food Science and Biofunctions* . **75**: 723-730.
- Okuyama, S., Nakamura-Tsuruta, S., Tateno, H., Hirabayashi, J., Matsunbara, K., **Hori, K.**, 2009. Strict binding specificity of small-sized lectins from the red alga *Gelidium coulteri* for core (a1-6) fucosylated N-glycans. *Food Science and Biofunctions* . **73**: 912-920.
- Sato, T., **Hori, K.**, 2009. Cloning, expression, and characterization of a novel anti-HIV lectin from the cultured cyanobacterium, *Lyngbyella birnbaumeri*. *Food Science and Biofunctions* . **75**: 743-753.
- Doi, H., Watanabe, E., Shibata, H., **Tanabe, S.**, 2009. A reliable enzyme linked immunosorbent assay for the determination of bovine and porcine gelatin in processed foods. *Food Science and Biofunctions* . **57**: 1721-1726.
- Iguchi, T., Kawata, A., Watanabe, T., Mazumder, T. K., **Tanabe, S.**, 2009. Fermented barley extract suppresses the development of atopic dermatitis-like skin lesions in NC/Nga mice, probably by inhibiting inflammatory cytokines. *Food Science and Biofunctions* . **73**: 489-493.
- Kotoura, S., Murakami-Yamaguchi, Y., Nakamura, M., Miake, K., Sugiyama, M., **Tanabe, S.**, Narita, H., 2009. A sandwich ELISA for the determination of beef meat content in processed foods. *Food Science and Biofunctions* . **15**: 613-618.
- Miyauchi, E., Morita, H., **Tanabe, S.**, 2009. *Lyngbyella birnbaumeri* alleviates intestinal barrier dysfunction in part by increasing expression of zonula occludens-1 and myosin light-chain kinase in vivo. *Food Science and Biofunctions* . **92**: 2400-2408.
- 田辺創一 . 2009 . 食物アレルギー・エビトープ解析 . *ぶんせき* . **50**: 555-559.
- Taniuchi, S., **Tanabe, S.**, Fujii, Y., Okamoto, S., Kojima, T., Kurosaka, F., Sasai, M., Nishio, M., Ito, N., Kaneko, K., 2009. Oral desensitization therapy using hypoallergenic wheat for children with wheat allergy. *Food Science and Biofunctions* . **9**: 132-138.
- Suzuki, T.**, Elias, B. C., Seth, A., Shen, L., Turner, J. R., Giorgianni, F., Desiderio, D., Guntaka, R., Rao, R., 2009. PKC $\eta$  regulates occludin phosphorylation and epithelial tight junction integrity. *Food Science and Biofunctions* . **106**: 61-66.
- Suzuki, T.** and Hara, H., 2009. Quercetin Enhances Intestinal Barrier Function through the Assembly of ZO-2, Occludin, and claudin-1 and the expression of claudin-4 in Caco-2 cells. *Food Science and Biofunctions* . **139**: 965-974.
- Condeelis, D., Kudo, T., Zizza, P., Iurisci, C., Kawai, E., **Kato, N.**, **Yanaka, N.**, Marigliò, S., 2009. The developmentally regulated osteoblast phosphodiesterase GDE3 is glycerophospho- inositol-specific and modulates cell growth. *Food Science and Biofunctions* . **284**: 24848-24856.
- Han, Y., Haraguchi, T., Iwanaga, S., Tomotake, H., Okazaki, Y., Mineo, S., Moriyama, A., Inoue, J., **Kato, N.**, 2009. Consumption of some polyphenols reduces fecal deoxycholic acid and lithocholic acid, the secondary bile acids of risk factors of colon cancer. *Food Science and Biofunctions* . **57**: 8587-8590.
- Yanaka, N.**, Kaseda, Y., Tanaka, A., Nogusa, Y., Sumiyoshi, N., **Kato, N.**, 2009. Generation of a zinc finger protein ZPR1 mutant that constitutively interacted with translation elongation factor 1alpha. *Food Science and Biofunctions* . **73**: 2809-2811.
- Hirata, T., Fujii, M., Akita, K., **Yanaka, N.**, Ogawa, K., Kuroyanagi, M., Hongo, D., 2009. Identification and physiological evaluation of the components from citrus fruits as potential drugs for anti-

- corpulence and anticancer. *J. Food Sci.* **17**: 25-28.
- Gabriel, A., **Nakano, H.**, 2009. Inactivation of *Salmonella* and *Escherichia coli* in phosphate-buffered saline and apple juice by ultraviolet and heat treatments. *J. Food Sci.* **20**: 443-446.
- Gabriel, A., **Nakano, H.**, 2009. Application of response surface methodology in the formation of nutrient broth systems with predetermined pH and water activities. *J. Food Sci.* **3**: 833-839.
- Kikoku, Y., Tagashira, N., Gabriel, A., **Nakano, H.**, 2009. Heat activation of *Aspergillus niger* and *Aspergillus oryzae* ascospores and enhancement of organic acids. *J. Food Sci.* **14**: 87-95.
- 中野宏幸・浅川 学 . 2009 . 自然毒食中毒 (動物毒, 植物毒) - 生体影響と予防 . *臨床検査* . **53**: 673-681.
- Ahmed, A. M., Ishida, Y., **Shimamoto, T.**, 2009. Molecular characterization of antimicrobial resistance in *Salmonella* isolated from animals in Japan. *J. Food Sci.* **106**: 402-409.
- Ahmed, A. M., Shimabukuro, H., **Shimamoto, T.**, 2009. Isolation and molecular characterization of multidrug-resistant strains of *Salmonella* and *Escherichia coli* from retail chicken meat in Japan. *J. Food Sci.* **74**: M405-M410.
- Ahmed, A. M., Younis, E. E. A., Ishida, Y., **Shimamoto, T.**, 2009. Genetic basis of multidrug resistance in serovars Enteritidis and Typhimurium isolated from diarrheic calves in Egypt. *J. Food Sci.* **111**: 144-149.
- Ahmed, A. M., Younis, E. E. A., Osman, S. A., Ishida, Y., El-khodery, S. A., **Shimamoto, T.**, 2009. Genetic analysis of antimicrobial resistance in *Salmonella* isolated from diarrheic neonatal calves. *J. Food Sci.* **136**: 397-402.
- Hammad, A. M., Ishida, Y., **Shimamoto, T.**, 2009. Prevalence and molecular characterization of ampicillin resistant *Salmonella* isolated from traditional Egyptian Domiati cheese. *J. Food Sci.* **72**: 624-630.
- Hussein, A. I. A., Ahmed, A. M., Sato, M., **Shimamoto, T.**, 2009. Characterization of integrons and antimicrobial resistance genes in clinical isolates of Gram-negative bacteria from Palestinian hospitals. *J. Food Sci.* **53**: 595-602.
- Sato, M., Ahmed, A. M., Noda, A., Watanabe, H., Fukumoto, Y., **Shimamoto, T.**, 2009. Isolation and molecular characterization of multidrug-resistant Gram-negative bacteria from imported flamingos in Japan. *J. Food Sci.* **51**: 46.
- Keawkaika, S., **Suzuki, K., Hagura, Y.**, 2010. Determination of viscoelastic properties of rice porridge by the non-rotational concentric cylinder method. *J. Food Sci.* **16**: 23-30.
- 羽倉義雄 . 2009 . 食品の凍結粉砕 . *日本食品工業誌* . **10**: 199-206.
- Horikawa, D., Iwata, K., **Kawai, K.**, Koseki, K., Okuda, T., Yamamoto, K., 2009. High hydrostatic pressure tolerance of four different anhydrobiotic animal species. *J. Food Sci.* **26**: 238-242.
- Thanatuksorn, P., **Kawai, K.**, Hayakawa, M., Hayashi, M., Kajiwara, K., 2009. Improvement of the oral bioavailability of coenzyme Q<sub>10</sub> by emulsification with fats and emulsifiers used in the food industry. *J. Food Sci.* **42**: 385-390.
- Thanatuksorn, P., **Kawai, K.**, Kajiwara, K., Suzuki, T., 2009. Effects of ball-milling on the glass transition of wheat flour constituents. *J. Food Sci.* **89**: 430-435.
- Yamamoto, K., **Kawai, K.**, Fukami, K., Koseki, S., 2009. Potato. Pressure gelatinization of potato starch. *J. Food Sci.* **3(S11)**: 57-66.
- 山本和貴・川井清司・深見 健・小関成樹 . 2009 . 高圧処理澱粉の示差走査熱量分析 . *熱測定* . **36**: 38-45.
- Kodama, Y., Masaki, K., Kondo, H., Suzuki, M., Tsuda, S., Nagura, T., Shimba, N., Suzuki, E., **Iefuji, H.**, 2009. Crystal structure and enhanced activity of a cutinase-like enzyme from *Aspergillus niger* sp. strain S-2. *J. Food Sci.* **77**: 710-717.
- Sakae, Y., Matsubara, T., Aida, M., Kondou, H., Masaki, K., **Iefuji, H.**, 2009. ONIOM study of the mechanism of the enzymatic hydrolysis of biodegradable plastics. *J. Food Sci.* **82**: 338-346.

- Thongekkaew, J., **Iefuji, H.**, 2009. Thermal stability of *Aspergillus* sp. S-2 carboxymethyl cellulase (CSCMCase) having a cellulose binding domain from a fungal exoglucanase: Comparison to recombinant CSCMCase. *Journal of Bioscience and Bioengineering*, **31**: 361-365.
- Watanabe, T., Ikeda, H., Masaki, K., **Fujii, T., Iefuji, H.**, 2009. Cloning and characterization of a novel phytase from wastewater treatment yeast *Candida guilliermondii* J640 and expression in *Saccharomyces cerevisiae*. *Journal of Bioscience and Bioengineering*, **108**: 225-230.
- Watanabe, T., Masaki, K., Iwashita, K., **Fujii, T., Iefuji, H.**, 2009. Treatment and phosphorus removal from high concentration organic wastewater by the yeast *Candida guilliermondii* J224 PAWA. *Journal of Bioscience and Bioengineering*, **100**: 1781-1785.
- Watanabe, T., Tanaka, M., Masaki, K., **Fujii, T., Iefuji, H.**, 2009. Decolorization and semi-batch continuous treatment of molasses distillery wastewater by *Candida guilliermondii* DCT6. *Journal of Bioscience and Bioengineering*, **59**: 2179-85.
- 渡部貴志・田中未来・岡田真実・正木和夫・藤井 力・家藤治幸・2009・糸状菌を用いた黒糖焼酎蒸留粕の脱色排水処理・*醸協*・**104**: 495-501.
- 藤井 力・2009・焼酎粕の機能性及び焼酎粕利用処理技術の現状と課題・*醸協*・**104**: 111-118.
- Azuma, A., Kobayashi, S., **Goto-Yamamoto, N.**, Shiraiishi, M., Mitani, N., Yakushiji, H., Koshita, Y., 2009. Color recovery in berries of grape (*Vitis rotundifolia* L.) 'Benitaka', a bud sport of 'Italia', is caused by a novel allele at the *CHS* locus. *Journal of Horticultural Science and Biotechnology*, **176**: 470-478.
- Goto-Yamamoto, N.**, Numata, M., Wan, G. H., **Shimamoto, T.**, Hashizume, K., 2009. Characterization of oriental cultivars of grapevine using a reference allele system of microsatellite data and assignment test. *Journal of Horticultural Science and Biotechnology*, **78**: 175-179.
- Isogai, A., Kanda, R., Hiraga, Y., Nishimura T., Iwata, H., **Goto-Yamamoto, N.**, 2009. Screening and identification of precursor compounds of dimethyl trisulfide (DMTS) in Japanese sake. *Journal of Bioscience and Bioengineering*, **57**: 189-195.
- 奥田将生・橋爪克己・沼田美子代・上用みどり・後藤奈美・三上重明・2009・気象データと原料米の酒造適性との関係・*醸協*・**104**: 699-711.
- Okuda, M., Isogai, A., Joyo, M., **Goto-Yamamoto, N.**, Mikami, S., 2009. Influence of sulfur and nitrogen content of rice grains on flavor in stored sake. *Journal of Bioscience and Bioengineering*, **86**: 534-541.

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

- Nakane, K.**, Azam, H., 2010. Sensitivity analysis of stream water quality and land cover linkage models using Monte Carlo method. *Journal of Bioscience and Bioengineering*, **4**: 121-130.
- 中根周歩・2010・「雨水循環型緑化システムによる CO<sub>2</sub>の生物的固定技術の実証モデル事業」事業報告書・「本論」(財団法人ひろぎん経済研究所編著) 中国経済産業局, 広島: 5-73.
- 中根周歩・皮 玲・2009・屋上緑化土壌への竹炭埋設が植栽植生の生育に及ぼす効果・*環境情報科学論文集*・**23**: 441-446.
- 皮 玲・中根周歩・2009・屋上緑化土壌への竹炭埋設が土壌温度および土壌湿度に及ぼす影響・*環境情報科学論文集*・**23**: 447-452.
- Pi, L., **Nakane, K.**, 2009. Effects of bamboo charcoal buried in soil of golf courses on nursing resource of water and preserving the environment. *Journal of Bioscience and Bioengineering*, **8**: 38-42.
- Ogura, A., **Takeda, K., Nakatsubo, T.**, 2009. Periphyton contribution to nitrogen dynamics in the discharge from a wastewater treatment plant. *Journal of Bioscience and Bioengineering*, **25**: 229-235.
- 奥川裕子・中坪孝之・2009・外来木本ナンキンハゼの逸出とその制限要因・*広島大学総合博物館研究報告*・**1**: 63-70.
- Sasaki A.**, Hagimori Y., **Nakatsubo T.**, Hoshika A., 2009. Tidal effects on the organic carbon mineralization rate

- under aerobic conditions in sediments of an intertidal estuary. *Estuarine, Coastal and Shelf Science*, **24**: 723-729.
- 佐々木晶子・小倉亜紗美・福田栄二．2009．住民参加によるホタル再生に向けた地域環境の現状評価．*広島大学総合博物館研究報告*．**1**: 71-76.
- 近藤宏荘・智和正明・佐久川弘．2009．東広島における大気エアロゾル抽出水中のヒドロキシルラジカルの光化学的生成および消失機構．*地球化学*．**43**: 15-25.
- Mostofa, K. M. G., Fengchang, W., Yoshioka, T., **Sakugawa, H.**, Tanoue, E., 2009. Chapter 1. Dissolved organic matter in aquatic environment. In "Natural Organic Matter and Its Significance in the Environment" Ed. W. Fengchang and X. Baoshan, Science Press, Beijing: 3-65.
- Mostofa, K. M. G., **Sakugawa, H.**, 2009. Spatial and temporal variations and factors controlling the concentrations of hydrogen peroxide and organic peroxides in rivers. *Water Science and Technology*. **6**: 524-534.
- Nakatani, N., Takamori, H., **Takeda, K.**, **Sakugawa, H.**, 2009. Transesterification of soybean oil using combusted oyster shell waste as a catalyst. *Journal of Applied Polymer Science*. **100**: 1510-1513.
- Oguntimehin, I., **Sakugawa, H.**, 2009. Interactive effects of simultaneous ozone and fluoranthene fumigation on the eco-physiological status of the evergreen conifer, Japanese red pine (*Pinus densata* Sieb et. Zucc.). *Journal of Chemical Ecology*. **18**: 100-109.
- Olasehinde, E. F., **Takeda, K.**, **Sakugawa, H.**, 2009. Development of an analytical method for nitric oxide radical determination in natural waters. *Journal of Applied Polymer Science*. **81**: 6843-6850.
- 佐藤高晴・竹田一彦・田中謙太郎・山崎博史．2009．小さな池での堆積物コアを用いた長期間の環境汚染モニタリングの提案．*人間と環境*．**35**: 14-17.
- 竹田一彦・三井裕美・静岡 清・近藤宏荘・中谷暢丈・佐久川弘．2009．水中低分子アルデヒドの高感度分析におけるブランク低減への $\gamma$ 線照射の応用．*分析化学*．**58**: 101-105.
- Wang, W., Johnson, C., **Takeda, K.**, Zafiriou, O., 2009. Measuring the photochemical production of carbon dioxide from marine dissolved organic matter by pool isotope exchange. *Journal of Geophysical Research*. **43**: 8604-8609.
- 井関和夫．2009．流下栄養塩組成の人為的变化による東アジア縁辺海の生態系変質の評価研究：年代間データ比較に基づいたN, P, Si組成比の海洋低次生態系への影響評価．*地球環境研究総合推進費平成19年度研究成果－中間成果報告集－*．166-174.
- Niimura, Y., Tamaki, H., **Yoshida, G.**, Terawaki, T., **Iseki, K.**, 2009. Variation in biomass and species composition of epiphytic community on the different aged leaved of *Ulva pertusa* (Chlorophyta). *Journal of Applied Phycology*. **48**: 55-61.
- Tezuka, N., Ichisaki, M., Kanematsu, M., Usuki, H., **Hamaguchi, M.**, **Iseki, K.**, 2009. Particle retention efficiency of asari clam *Argopecten irradians*. *Journal of Applied Phycology*. **6**: 281-287.
- Asaoka, S., Kondo, S., **Yamamoto, T.**, Hayakawa, S., 2009. XAFS analysis of S species for revealing H<sub>2</sub>S adsorption mechanisms onto granulated coal ash and crushed oyster shell. *Journal of Applied Phycology*. **48**: 40-43.
- Asaoka, S., **Yamamoto, T.**, Kondo, S., Hayakawa, S., 2009. Removal of hydrogen sulfide using crushed oyster shell from pore water to remediate organically enriched coastal marine sediments. *Journal of Applied Phycology*. **100**: 4127-4132.
- Asaoka, S., **Yamamoto, T.**, Yoshioka, I., Tanaka, H., 2009. Remediation of coastal marine sediments using granulated coal ash. *Journal of Applied Phycology*. **172**: 92-98.
- 浅岡 聡・山本民次．2009．石炭灰造粒物による有機質底泥の改善．*用水と排水*，**51**: 157-163.
- 浅岡 聡・山本民次・早川慎二郎．2009．石炭灰造粒物による硫化物イオンの除去．*水環境学会誌*，**32**: 363-368.
- 浅岡 聡・山本杏子・原口浩一・山本民次．2009．底質改善材としての石炭灰造粒物の底生微細藻および底泥の菌叢への影響．*用水と排水*，**51**: 237-244.
- 原口浩一・山本民次．2009．微小酸素電極法および酸素フラックス法による底生微細藻光合成生産の実測．

- 沿岸海洋研究, **47**: 43-49.
- 原口浩一・山本民次・片山貴之・松田 治. 2009. 人工魚礁に形成される食物連鎖を通じた炭素フロー. *日水誌*, **75**: 810-818.
- 福岡晴美・日比野忠史・山本民次・斉藤 直. 2009. 石炭灰造粒物覆砂による環境修復効果—汽水域をフィールドとして—. *土木学会論文集 B2 (海岸工学)*, **B2-65**: 1026-1030.
- Nishikawa, T., Tarutani, K., **Yamamoto, T.**, 2009. Nitrate and phosphate uptake kinetics of the harmful diatom *Ehrenberg*, a causative organism in the bleaching of aquacultured thalli. *Journal of Applied Phycology*, **8**: 513-517.
- Sarker, J. Md., **Yamamoto, T.**, **Hashimoto, T.**, 2009. Contribution of benthic microalgae to the whole water algal biomass and primary production in Suo Nada. *Journal of Applied Phycology*, **65**: 311-323.
- Yamamoto, T.**, Maeda, H., Matsuda, O., **Hashimoto, T.**, 2009. Effects of culture density on the growth and fecal production of oyster *Crassostrea gigas*. Proceedings of PICES-2009 "Understanding ecosystem dynamics and pursuing ecosystem approaches to management", Jeju, Korea, 261.
- 山本民次. 2009. 沿岸海域生態系における底生微細藻の役割. *沿岸海洋研究*. **47**: 3-10.
- 山本民次. 2009. シンポジウム「浅海域生態系における底生微細藻の役割」のまとめ. *沿岸海洋研究*, **47**: 1-2.
- 山本民次. 2009. 経済重視の心地よさへの強い警告. 「大学新入学生に薦める101冊の本」(広島大学101冊の本委員会編) 岩波書店, 東京: 196-197.
- 山本民次・笹田尚平・原口浩一. 2009. 人工中層海底によるカキ養殖場沈降物量の軽減能評価—設置後半年間の調査から—. *水産学会誌*, **75**: 834-843.
- 山本民次・前田 一・松田 治・橋本俊也. 2009. 広島湾マガキ *Crassostrea gigas* の成長および排糞に対する養殖密度の影響. *日水誌*, **75**: 230-236.
- 橋本俊也・清水健太・吉田吾郎. 2009. 沿岸海域の低次生態系に対する藻場の役割. *広島大学生物圏科学研究科紀要*. **48**: 63-68.
- 山田達夫・橋本俊也・末永慶寛・一見和彦・多田邦尚. 2009. 魚類(ハマチ)養殖場における残餌の沈降と拡散. *日本水産学会誌*. **75**: 666-673.
- Hashimoto, T., Koga, M., **Masaoka, Y.**, 2009. Advantages of a diluted nutrient broth medium for isolating  $N_2$ -producing denitrifying bacteria of  $\alpha$ -Proteobacteria in surface and subsurface upland soils. *Journal of Applied Phycology*, **55**: 647-659.
- 正岡淑邦. 2009. 水と活性酸素でウイルス撃退! 空気清浄機. 農商工連携シーズ活用ガイドブック 特選シリーズ16. 31-32.
- 正岡淑邦・田河雅威・高尾信一. 2009. 出願番号 特願2007-133989 平成21年8月7日 空気浄化装置, 空気浄化法, ウイルスの不活性化方法及び脱臭方法.
- Subandiyah, S., Joko, T., Hartono, S., Trisyono, Y. A., Hanudin, E., **Masaoka, Y.**, Okuda, M., Iwanami, T., 2009. Characterization of citrus greening organism and analyzing the disease development to support the management of the disease. *Journal of Applied Phycology*, **55**: 5-6.
- 福田泰子・政岡賢一・夏目悠司・実岡寛文. 2009. 低フィチンダイズと普通栽培品種の生産と環境適応性の比較. *日本作物学会中国支部研究集録*. **50**: 1-2.
- Fukuda, Y., Natsume, Y., Masaoka, K., **Saneoka, H.**, Raboy, V., 2009. Productivity and quality of low-phytate soybean in Japan. *Journal of Applied Phycology*, **55**: 649-664. (Beijing, China).
- Nguyen, N. T., **Saneoka, H.**, Suwa, R., Fujita, K., 2009. Provenance variation in tolerance of trees to interactive effects of aluminum and salt. *Journal of Applied Phycology*, **23**: 649-664.
- Nguyen, N. T., **Saneoka, H.**, Suwa, R., Fujita, K., 2009. The interaction among provenances of (weeping paperbark), salt, and aluminum. *Journal of Applied Phycology*, **55**: 443-454.
- Ohashi, Y., Nakayama, N., **Saneoka, H.**, Mohapatra, P. K., Fujita, K., 2009. Differences in the responses of stem

- diameter and pod thickness to drought stress during the grain filling stage in soybean plants. *Plant Physiology*, **31**: 271-277.
- Attila, C., Ueda, A., Wood, T. K., 2009. 5-Fluorouracil reduces biofilm formation in *Arabidopsis thaliana* through global regulator AriR as an antivirulence compound. *Plant Physiology*, **82**: 525-533.
- Ueda, A., Attila, C., Whiteley, M., Wood, T. K., 2009. Uracil influences quorum sensing and biofilm formation in *Arabidopsis thaliana* and fluorouracil is an antagonist. *Plant Physiology*, **2**: 62-74.
- Ueda, A., Wood, T. K., 2009. Connecting quorum sensing, c-di-GMP, pel polysaccharide, and biofilm formation in *Arabidopsis thaliana* through tyrosine phosphatase TpbA (PA3885). *Plant Physiology*, **5**: e1000483.
- 井上博喜・山内 稔・宮川久義．2009．鉄コーティング処理によるイネ育苗期病害の防除．*日本植物病理学会報*．**75**: 164-169.
- 山内 稔．2009．鉄コーティング種子の大量製造技術3人・3日間で10ha 分の種子製造．*機械化農業*．**2009**年3月号：4-7.
- 山内 稔．2009．水稻の湛水直播栽培—省力化をおしすすめる鉄コーティング種子の大量製造技術—．*圃場と土壌*．**41**:18-22.
- 山内 稔．2009．水稻の鉄コーティング湛水直播における種子の大量製造と栽培のポイント．*米麦改良*．**2009**年10月号：2-8.
- 山内 稔．2009．鉄コーティング湛水直播技術．「飼料用米の生産・給与技術マニュアル第1版」(大同久明・原田久富美・野中和久・加藤 浩・田中基晴・押部明德・土屋一成編)(独 農業・食品産業技術総合研究機構，つくば：41-44. <http://www.nilgs.affrc.go.jp/project/esapro/esa-data/r-manual/r-manual.pdf>
- Davies, P. A., Takashino, K., Watanabe, M., Miura, K., 2009. Parental genetic traits in offspring from interspecific crosses between introduced and indigenous *Ichneumonidae* Foerster (Hymenoptera: Ichneumonidae): possible effects on conservation genetics. *Conservation Genetics*, **44**: 535-541.
- Kawasaki, Y., Ito, M., Miura, K., Kajimura, H., 2009. Superinfection of five *Curculionidae* in the alnus ambrosia beetle, *Curculio alni* (Blandford) (Coleoptera: Curculionidae). *Journal of Applied Entomology*, **100**: 231-239.
- Miura, K., Yamanaka, T., Suzuki, Y., Tagami, Y., Davies, A. P., 2009. Male rescue maintains low frequency parthenogenesis-inducing *Curculionidae* infection in *Curculio alni* populations. *Journal of Applied Entomology*, **51**: 245-252.
- Seko, T., Miura, K., 2009. Effects of artificial selection for reduced flight ability on survival rate and fecundity of *Curculio alni* (Pallas)(Coleoptera: Coccinellidae). *Journal of Applied Entomology*, **44**: 587-602.

### Assessment of Environmental Dynamics 環境評価論講座

- Han, C.-H., Kawahara, M., Uye S., 2009. Seasonal variations in the trophic relationship between the scyphomedusa *Physalia physalis* and mesozooplankton in a eutrophic brackish-water lake, Japan. *Journal of Applied Entomology*, **4**: 14-22.
- Han, C.-H., Uye, S., 2009. Quantification of the abundance and distribution of the common jellyfish *Physalia physalis* s.l. with a Dual-frequency Identification SONar (DIDSON). *Journal of Applied Entomology*, **31**: 805-814.
- 河原正人・上 真一．2009．大量発生する根口クラゲに共通する生態学的特性．*月刊海洋*．**41**: 452-455.
- 上 真一．2009．世界のクラゲ大発生現象．*科学*．**79**: 409-410.
- 上 真一．2009．わが国初のクラゲ大量発生に関する大型プロジェクト— STOPJELLY ．*月刊海洋* ．**41**: 456-459.



- Iwasaka, Y., Shi, G.-Y., Yamada, M., Kobayashi, F., Kakikawa, M., Maki, T., **Naganuma, T.**, Chen, B., Tobo, Y., Hong, C. S., 2009. Mixture of Kosa (Asian dust) and bioaerosols detected in the atmosphere over the Kosa particles source regions with balloon-borne measurements: possibility of long-range transport. *Journal of Aerosol Science*, **2**: 29-38.
- 倉持卓司・城間一仁・長沼 毅. 2009. 琉球列島久米島沖より採集されたウニエボシ属の一種(蔓脚綱: エボシガイ目). *広島大学大学院生物圏科学研究科紀要*. **48**: 69-72.
- Naganuma, T.**, 2009. An astrobiological view on sustainable life. *Journal of Microbiology and Biotechnology*, **1**(4): 827-837.
- Naganuma, T.**, Willemotte, A., 2009. Microbiological and Ecological Responses to Global Environmental Changes in Polar Regions (MERGE): an IPY Core Coordinating Project. *Journal of Microbiology and Biotechnology*, **3**: 139-146.
- 長沼 毅. 2009. 環境ナノ微生物へのメタゲノム応用. 「マリンメタゲノムの有効利用」(松永 是・竹山春子監修), CMC 出版, 東京: 153-165.
- 長沼 毅. 2009. 「宇宙がよるこぶ生命論」, 筑摩書房, 東京: 191 pp.
- 長沼 毅. 2009. 海底と地底からさぐる新しい生命観「海と生命—海の生命観」を求めて」(塚本勝巳編), 東海大学出版会, 神奈川県秦野市: 245-259.
- 長沼 毅. 2009. 「長沼さん, エイリアンって地球にもいるんですか?」, NTT 出版, 東京: 236 pp.
- 長沼 毅 (監修). 2009. 「深海生物大図鑑」, PHP 研究所, 東京: 79 pp.
- 長沼 毅. 2009. 深海から森海へ「風土サイエンス」の発火点. *ウェッジ*. **21**: 55.
- 長沼 毅. 2009. 考えることのスキル. *日本教育*. 平成21年9月号〔通巻382号〕: 4.
- 長沼 毅. 2009. 地域発「風土サイエンス」を目指したアウトリーチの実践(1). *理科教室*. **52**〔通巻654号〕: 94-95.
- 長沼 毅. 2009. 地域発「風土サイエンス」を目指したアウトリーチの実践(2). *理科教室*. **52**〔通巻655号〕: 94-95.
- 長沼 毅・嶋本利彦・丸本 浩・田中伸也・林 靖弘・平賀博之. 2009. 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( ). *広島大学学部・附属学校共同研究機構研究紀要*. **38**: 307-313.
- Yukimura, K., Nakai, R., Kohshima, S., Uetake, J., Kanda, H., **Naganuma, T.**, 2009. Spore-forming halophilic bacteria isolated from Arctic terrains: Implications for long-range transportation of microorganisms. *Journal of Microbiology and Biotechnology*, **3**: 163-169.
- 小池一彦. 2009. 平成21年度漁場環境・生物多様性保全総合対策事業費赤潮等被害防止対策事業「光合成活性を指標とした新奇有害プランクトンの増殖予知技術開発」報告書. 水産庁.
- Yamashita, H., Kobiyama, A., **Koike, K.**, 2009. Do Uric Acid Deposits in Zooxanthellae Function as Eye-Spots? *PLOS ONE*, **4**: doi:10.1371/journal.pone.0006303.
- Li, X., **Sakurai, N.**, Nevins, D. J., 2009. Characterization of kiwifruit xyloglucan. *Journal of Food Science*, **74**: 933-941.
- Shigihara, A., Matsumoto, K., **Sakurai, N.**, Igawa, M., 2009. Leaching of cell wall components caused by acid deposition on fir needles and trees. *Journal of Food Science*, **74**: 185-195.
- 城村徳明・櫻井直樹・土田靖久・三宅英伸・東 卓弥・竹中正好. 2009. ウメ「南高」塩漬け果実に発生する果肉硬化傷害の発生原因, *園芸学研究* **8**: 181-186.
- Taniwaki, M., Hanada, T., **Sakurai N.**, 2009. Postharvest quality evaluation of “Fuyu” and “Taishuu” persimmons using a nondestructive vibrational method and an acoustic vibration technique. *Journal of Food Science*, **74**: 80-85.
- Taniwaki, M., Hanada, T., Tohiro, M., **Sakurai, N.**, 2009. Non-destructive determination of the optimum eating ripeness of pears and their texture measurements using acoustical vibration technique. *Journal of Food Science*, **74**: 305-310.
- Taniwaki, M., **Sakurai, N.**, 2010. Evaluation of the Internal Quality of Agricultural Products Using Acoustic Vibration Technique. *Journal of Food Science*, **79**: 113-128.



Taniwaki, M., Takahashi M., **Sakurai, N.**, 2009. Determination of optimum ripeness for edibility of postharvest melons using nondestructive vibration. .