

**List of papers by the staff of the Graduate School of Biosphere Science,
Hiroshima University, published during January to December, 2007**

広島大学大学院生物圏科学研究科教員業績目録

(2007年1月 - 12月)

Animal Science 陸域動物生産学講座

- Tsudzuki, M.**, Onitsuka, S., Akiyama, R., Iwamizu, M., Goto, N., **Nishibori, M.**, Takahashi, H., Ishikawa, A., 2007. Identification of quantitative trait loci affecting shank length, body weight and carcass weight from the Japanese cockfighting chicken breed, Oh-Shamo (Japanese Large Game). *Cytogenet. Genome Res.* **117**: 288-295.
- Tadano, R., Sekino, M., **Nishibori, M.**, **Tsudzuki, M.**, 2007. Microsatellite marker analysis for the genetic diversity and relationships in Japanese long-tailed chicken breeds. *Poult. Sci.* **86**: 460-469.
- Tadano, R., **Nishibori, M.**, Nagasaka, N., **Tsudzuki, M.**, 2007. Assessing genetic diversity and population structure for commercial chicken lines based on 40 microsatellite analyses. *Poultry Sci.* **86**: 2301-2308.
- 都築政起. 2007. 家畜の過去・現在・未来, 「動物とのふれあいを通じて学ぶアニマルサイエンス」(小櫃剛人 編著). 広大生物圏出版会, 東広島: 1-37.
- 都築政起. 2007. 日本のニワトリ品種ならびにその遺伝的多様性. 「動物遺伝資源管理に関する日韓共同シンポジウム記念冊子」(趙 昌衍 編著). 韓国農村振興庁, 水原: 169-175.
- Yamashita, Y., Kawashima, I., Yanai, Y., **Nishibori, M.**, Richards, J-S., **Shimada, M.**, 2007. Hormone-induced expression of *TACE/ADAM17* protease impacts porcine cumulus cell oocyte complex expansion and meiotic maturation via ligand activation of the EGF receptor. *Endocrinology.* **148**: 6164-6175.
- Subedi, K., **Isobe, N.**, **Nishibori, M.**, **Yoshimura, Y.**, 2007. Changes in the Expression of Toll-Like Receptor mRNAs During Follicular Growth and in Response to Lipopolysaccharide in the Ovarian Follicles of Laying Hens. *Journal of Reproduction and Development*, **53**: 1227-1235.
- Nishibori, M.**, Hayashi, T., Hiraiwa, H., Shimogiri, T., Yasue, H., 2007. Assignment of 58 genes localized on HSA18 to the porcine IMPRH maps for SSC1 and SSC6. *Animal Genetics*, **38**: 186-188.
- Liu, X., Tamada, Y., Shimogiri, T., **Nishibori, M.**, Hiraiwa, H., Yasue, H., 2007. Assignment of 56 genes localized on HSA13q to a porcine RH (IMPRH) map. *Animal Genetics*, **38**: 184-186.
- Tadano, R., Sekino, M., **Nishibori, M.**, **Tsudzuki, M.**, 2007. Microsatellite marker analysis for the genetic relationships among Japanese long-tailed chicken breeds. *Poultry Science*, **86**: 460-469.
- Tsudzuki, M.**, Onitsuka, S., Akiyama, R., Iwamizu, M., Goto, M., **Nishibori, M.**, Takahashi, H., Ishikawa, A., 2007. Identification of quantitative trait loci affecting shank length, body weight and carcass weight from the Japanese cockfighting chicken breed, Oh-Shamo (Japanese Large Game). *Cytogenetic and Genome Research*, **117**: 288-295.
- Wada, K., **Nishibori, M.**, Yokohama, M., 2007. The complete nucleotide sequence of mitochondrial genome in the Japanese Sika deer (*Cervus nippon*), and a phylogenetic analysis between Cervidae and Bovidae. *Small Ruminant Research*, **69**: 46-54.
- Subedi, K., **Isobe, N.**, **Nishibori, M.**, **Yoshimura, Y.**, 2007. Changes in the expression of toll-like receptor mRNAs during follicular growth and in response to lipopolysaccharide in the ovarian follicles of laying hens. *Journal of Reproduction and Development*, **53**: 1227-1235.
- Subedi, K., **Isobe, N.**, **Nishibori, M.**, **Yoshimura, Y.**, 2007. Changes in the expression of gallinacins, antimicrobial

- peptides, in ovarian follicles during follicular growth and in response to lipopolysaccharide in laying hens (*Gallus domesticus*). *Reproduction*, **133**: 127-133.
- Yamashita, Y., Kawashima, I., Yanai, Y., **Nishibori, M.**, Richards, J.S., **Shimada, M.**, 2007. Hormone-induced expression of tumor necrosis factor alpha-converting enzyme/A disintegrin and metalloprotease-17 impacts porcine cumulus cell oocyte complex expansion and meiotic maturation via ligand activation of the epidermal growth factor receptor. *Endocrinology*, **148**: 6164-6175.
- Nozawa, K., Namikawa, T., Yamagata, T., Yamamoto, Y., **Nishibori, M.**, Tanaka, K., Dorji, T., Tshering, G., 2007. Coat-color and other morphogenetic variations in Bhutan cats. *Report of the Society for Researches on Native Livestock*, **24**: 185-194.
- Yamamoto, Y., **Nishibori, M.**, Kinoshita, K., Namikawa, T., Mannen, H., Tshering, G., Dorji, T., 2007. Composition of the genes controlling blood groups and morpho-genetic traits of Bhutanese native chickens and its phylogenetic study. *Report of the Society for Researches on Native Livestock*, **24**: 167-178.
- Kurosawa, Y., Tanaka, K., Tsunoda, K., Mannen, H., Takahashi, Y., Nomura, K., Yamagata, T., Namikawa, T., Nozawa, K., **Nishibori, M.**, Dorji, T., Tshering, G., Yamamoto, Y., 2007. Study on local pigs in Bhutan focusing their morphological traits and bloods protein polymorphisms. *Report of the Society for Researches on Native Livestock*, **24**: 145-155.
- Kurosawa, Y., Tanaka, K., Tsunoda, K., Mannen, H., Takahashi, Y., Numura, K., Amano, T., Yamagata, T., Namikawa, T., Nozawa, K., **Nishibori, M.**, Dorji, T., Tshering, G., Yamamoto, Y., 2007. Blood protein polymorphism of the domestic cattle and mithun (*Bos gaurus* var. *frontalis*) in Bhutan. *Report of the Society for Researches on Native Livestock*, **24**: 77-88.
- Kurachi, M., Yamagata, T., Namikawa, T., Kawamoto, Y., Tanaka, K., Mannen, H., Takahashi, Y., Nomura, K., Kinoshita, K., Tsunoda, K., **Nishibori, M.**, Yamamoto, Y., Samdrep, C., Sherpa, D., Tsering, G., Dorji, T., 2007. Morphological, mitochondrial DNA and blood protein/enzyme variations of wild musk shrews (*Suncus murinus*) in Bhutan. *Report of the Society for Researches on Native Livestock*, **24**: 195-205.
- 高橋幸水・野村こう・天野 卓・倉知恵美・山縣高宏・西堀正英・Tshering, G.・Dorji, T.・山本義雄. プータン在来水牛の血液蛋白型支配遺伝子構成. 在来家畜研究会報告, **24**: 89-96.
- Takahashi, Y., Ino, Y., Nomura, K., Amano, T., Tanaka, K., Okabayashi, H., Kurachi, M., Yamagata, T., Mannen, H., **Nishibori, M.**, Y., Kurosawa, Y., Nozawa, K., Bunthon, B., Tean, B., Loan, CP., Namikawa, T., 2007. Composition of genes controlling blood protein types of native water buffaloes in Cambodia. *Report of the Society for Researches on Native Livestock*, **24**: 227-235.
- Nomura, K., Ino, Y., Takahashi, Y., Amano, T., Mannen, H., **Nishibori, M.**, Kurosawa, Y., Tanaka, K., Okabayashi, H., Nozawa, K., Kurachi, M., Yamagata, T., Tean, B., Bhuthon, C., Loan, CP., Namikawa, T., 2007. Composition of genes controlling blood protein types of native cattle in Cambodia. *Report of the Society for Researches on Native Livestock*, **24**: 217-226.
- Shah, K. D., **Maeda, T.**, Hidaka, T., Ogata, Y., 2007. Estrone sulfate and progesterone profiles during late gestation in recipient cows transferred embryos produced by nuclear transfer and in vitro fertilization. *Journal of Reproduction and Development*, **53**: 1237-1246.
- Yanai, Y., Yamashiro, H., **Isobe, N.**, **Maeda, T.**, 2007. Changes in fecal progestagen profile after excretion in miniature pigs. *Journal of Reproduction and Development*, **53**: 1107-1112.
- Shah, K. D., Nakao, T., Kubota, H., **Maeda, T.**, 2007. Relationship of prepartum plasma concentrations of estrone sulphate and estradiol -17b with the weight of the calf and the placental parameters in Holstein-Friesian cattle. *Animal Science Journal*, **78**: 489-494.
- Shah, K. D., Nakao, T., Kubota, H., **Maeda, T.**, 2007. Peripartum changes in plasma estrone sulfate and estradiol-17 β profiles associated with and without the retention of fetal membranes in Holstein-Friesian cattle. *Journal of Reproduction and Development*, **53**: 279-288.

- Obitsu, T.**, Tsunemine, M., Han, K., **Sugino, T.**, **Taniguchi, K.** 2007. Effect of potato pulp as a dietary carbohydrate source on nitrogen excretion and urea metabolism in sheep. *Energy and Protein Metabolism and Nutrition. Ortigues-Marty, I. ed. Wageningen Academic Publishers. Wageningen:* 435-436.
- Takahashi, H., Kurose, Y., Sakaida, M., Suzuki, Y., Kobayashi, S., **Sugino, T.**, Kojima, M., Kangawa, K., Hasegawa, Y., Terashima, Y. 2007. Ghrelin differentially modulates glucose-induced insulin secretion according to feeding status in sheep. *Journal of Endocrinology.* **194:** 621-625.
- Bungo, T.**, Dodo, K. -I. and Izumi, T. 2007. Central injection of endomorphin-2, but not endomorphin-1, increases food intake in chicks via m1-receptors. *J. Poult. Sci.*, **44:** 205-208.
- Subedi, K., **Isobe, N.**, **Nishibori, M.**, **Yoshimura, Y.**, 2007. Changes in the expression of toll-like receptor mRNAs during follicular growth and in response to lipopolysaccharide in the ovarian follicles of laying hens. *Journal of Reproduction and Development.* **53:** 1227-1235.
- Yoshimura, Y.**, Tsuchida, M., Nakamura, J., Saito, T., **Isobe, N.** and **Iijima, N.**, 2007. Preparation and application for immunocytochemistry of antibody to gallinacin-3, an antimicrobial peptide, in chicken. *Journal of Poultry Science.* **44:** 433-438.
- Isobe, N.**, **Yoshimura, Y.**, 2007. Deficient proliferation and apoptosis in granulosa and theca interna cells of bovine cystic follicle. *Journal of Reproduction and Development.* **53:** 1119-1124.
- Yanai, Y., **Isobe, N.**, Yamashiro, H., **Maeda, T.**, 2007. Changes in fecal progesterone profile after excretion in miniature pigs. *Journal of Reproduction and Development.* **53:** 1107-1112.
- Das, S. C., **Isobe, N.**, **Yoshimura, Y.**, 2007. Changes in the mRNA expressions of sperm Transforming Growth Factor b-isoforms and their receptors with reference to fertility during in vitro storage of fowl semen. *Journal of Poultry Science.* **44:** 189-197.
- Subedi, K., **Isobe, N.**, **Nishibori, M.**, **Yoshimura, Y.**, 2007. Changes in the expression of gallinacins, antimicrobial peptides, in ovarian follicles during follicular growth and in response to lipopolysaccharide in laying hens (*Gallus domesticus*). *Reproduction.* **133:** 127-133.
- Isobe, N.**, Nakao, T., **Shimada, M.**, Fukumoto, Y., Watanabe, H., Minami, S., Noda, A., **Yoshimura, Y.**, 2007. Fecal progesterone and estrone during pregnancy in a giraffe: A case report. *Journal of Reproduction and Development.* **53:** 159-164.
- Isobe, N.**, Yamada, K., **Yoshimura, Y.**, 2007. Involvement of plasma progesterone, estradiol-17b and cortisol in ovulatory response to gonadotropin releasing hormone in dairy cows with cystic follicles. *Reproduction in Domestic Animals.* **42:** 370-375.
- Isobe, N.**, 2007. Follicular cysts in dairy cows. *Animal Science Journal.* **78:** 1-6.

Aquatic Biology 水圏生物生産学講座

- 清水則雄・越智雄一郎・東出遼介・門田 立・鳥越兼治・橋本博明・坂井陽一. 2007. 採集された造礁サンゴの1種キクメイシモドキ *Oulastrea crispata* (キクメイシ科Faviidae), 広島大学大学院生物圏科学研究科紀要. 46: 1-4.
- Takeuchi, M., Saeki, T., **Sakai, Y.**, **Hashimoto, H.** 2007. Diets of 45 Fish Species from 17 Families at Kuchierabu-jima Island, *J. Grad. Sch. Biosp. Sci. Hiroshima Univ.* 46: 5~13.
- 東出遼介・坂井陽一・橋本博明. 2007. 愛媛県今治で採取されたテナガダコ *Octopus minor* の体形異常個体. 広島大学大学院生物圏科学研究科紀要. 46: 15-19.
- Sakai, Y.**, **Kuniyoshi, H.**, Yoshida, M., Fukui, Y., **Hashimoto, H.**, Gushima, K. 2007. Social control of terminal phase transition in primary males of the diandric wrasse, *Halichoeres poecilopterus* (Pisces: Labridae), *J. Ethol.* 25: 57-61.
- Kawai, K.**, Imayoshi, Y., **Imabayashi, H.** 2007. Differences in allele frequency at ME-1 locus among four subspecies of Japanese white-spotted char *Salvelinus leucomaenis*. *Fisheries Science.* **73:** 1398-1400.

- 杉丸勝郎・佐藤雅彦・河合幸一郎・今林博道. 2007. 道北地方で採集されたウミユスリカ. 利尻研究, **26**: 61-62.
- Amin, O. M., Nagasawa, K., Grygier, M. J., 2007. Host and seasonal distribution of fish acanthocephalans from the Lake Biwa basin, Japan. *Comp. Parasitol.*, **74**: 244-253.
- Furiness, S., Williams, J. I., Nagasawa, K., Bureson, E. M. 2007. A collection of fish leeches (Hirudinida: Piscicolidae) from Japan and surrounding waters including redescrptions of three species. *J. Parasitol.*, **93**: 875-883.
- Ha, T. T. T., Okabe, M., Morishima, K., Nakayama, I., Nagasawa, K. and Umino, T., 2007. Development and multiplex PCR amplification of new microsatellite markers in the freshwater fish, ayu (*Plecoglossus altivelis*). *Molecul. Ecol. Notes*, **7**: 635-637.
- 原田和弘・海野徹也・大谷徹也. 2007. 日本海西部で漁獲されたニギスの体成分の季節変動. 日本水産学会雑誌, **73**: 891-896.
- Hirata, Y., Wakano, M., Matsubara, D., Nagasawa, K., 2007. Presoaking effects of spat collectors in seawater containing adult live diploid Pacific oysters (*Crassostrea gigas*) on the settlement of triploid oyster larvae. *Aquaculture Sci.*, **55**: 557-562.
- Ho, J.-S., Nagasawa, K., and Kim, I.-H., 2007. *Sarcotretes longirostris* n. sp. (Copepoda, Pennellidae) parasitic on bluefin driftfish (*Psenes pellucidus*) found in the stomach of the short-finned pilot whale caught off Japan. *J. Crust. Biol.*, **27**: 116-120.
- Jeong, D. -S., Blanco Gonzalez, E., Morishima, K., Arai, K., Umino, T., 2007. Parentage assignment of stocked black sea bream *Acanthopagrus schlegelii* in Hiroshima Bay using microsatellite DNA markers. *Fish. Sci.*, **73**: 823-830.
- 村上倫哉・相田 聡・吉岡孝治・引奥正憲・橋本博明・海野徹也・長澤和也. 2007. 広島県生野島に放流したメバル人工種苗の再捕. 水産増殖, **55**: 231-236.
- 長澤和也. 2007. 石田昭夫氏(1927~2007年)の逝去を悼む. 陸水生物学報, **22**: 95.
- 長澤和也. 2007. 魚病NOW. サザエのサザエノハラムシ症. 養殖, **44** (9): 41.
- 長澤和也. 2007. 魚病NOW. 海産魚のウオノコバン症. 養殖, **44** (10): 41.
- 長澤和也. 2007. 東南アジアにおける魚病診断技術の向上と防疫体制の構築をめざして, 東南アジア漁業開発センターにおける魚病プロジェクトの活動を通して. 日本水産資源保護協会月報, No. 510: 3-7.
- 長澤和也・海野徹也・上野大輔・大塚 攻. 2007. 魚類寄生虫またはプランクトンとして出現するニセエラジラミ科カイアシ類の目録(1895-2007年). 日本生物地理学会会報, **62**: 43-62.
- Nagasawa, K., 2007. Teruo Ishida. *Monoculus*, **53**: 7.
- Nagasawa, K., Inoue, A., Myat, S., Umino, T., 2007. New host records for *Lernaea cyprinacea* (Copepoda), a parasite of freshwater fishes, with a checklist of the Lernaeidae in Japan (1915-2007). *J. Grad. Sch. Biosp. Sci., Hiroshima Univ.*, **46**: 21-33.
- Nagasawa, K., Umino, T., Grygier, M. J., 2007. Parasites may be useful biological tags for identifying ayu (*Plecoglossus altivelis*) (Salmoniformes: Plecoglossidae) of Lake Biwa origin stocked into rivers. *Aquaculture Sci.*, **55**: 477-481.
- Nagasawa, K., Umino, T., Grygier, M. J., 2007. A checklist of the parasites of ayu (*Plecoglossus altivelis altivelis*) (Salmoniformes: Plecoglossidae) in Japan (1912-2007). *J. Grad. Sch. Biosp. Sci., Hiroshima Univ.*, **46**: 59-89.
- Nagasawa, K., Umino, T., Mizuno, K., 2007. A checklist of the parasites of eels (*Anguilla spp.*) (Anguilliformes: Anguillidae) in Japan (1915-2007). *J. Grad. Sch. Biosp. Sci., Hiroshima Univ.*, **46**: 91-121.
- 海野徹也・柴 智久・検崎仁美・柴田恭宏・長澤和也. 2007. 耳石Sr/Ca比による広島県芦田川水系における陸封アユの確認. 広島大学大学院生物圏科学研究科紀要, **46**: 35-42.
- Matsumoto, N., Yoshida, M., Uematsu, K. 2007 Recording cerebellar neuron activities in swimming goldfish. *Fish.*

Sci., 73: 512-521.

- Matsumoto, N., **Yoshida, M.**, **Uematsu, K.** 2007 Effects of partial ablation of the cerebellum on sustained swimming in goldfish. *Brain Behav. Evol.*, 70: 105-114.
- Sakai, Y.**, **Kuniyoshi, H.**, **Yoshida, M.**, Fukui, Y., **Hashimoto, H.**, **Gushima, K.** 2007 Social control of terminal phase transition in primary males of the diandric wrasse, *Halichoeres poecilopterus* (Pisces; Labridae). *J. Ethol.*, 25: 57-61.
- Uematsu, K.**, Baba, Y., Kake, Y., Ikenaga, T., Moon, S-J., Miyai, Y., **Yoshida, M.** 2007 Central mechanisms underlying fish swimming. *Brain Behav. Evol.* 69: 142-150.
- Kawanishi, M., Yoshida, T., Kijima, M., Yagy, K., **Nakai, T.**, Okada, S., Endo, A., Murakami, M., Suzuki, S., Morita, H., 2007. Characterization of *Lactococcus garvieae* isolated from radish and broccoli sprouts that exhibited a KG+ phenotype, lack of virulence and absence of a capsule. *Letters Appl. Microbiol.*, 44: 481-487.
- Okuda, J.**, Murayama, F., Yamanoi, E., Iwamoto, E., Matsuoka, S., Nishibuchi, M., **Nakai, T.**, 2007. Base changes in the *fliC* gene of *Edwardsiella tarda*: possible effects on flagellation and motility. *Dis. Aquat. Org.*, 76: 113-121.
- Venmathi Maran, B.A., Iwamoto, E., **Okuda, J.**, Matsuda, S., Taniyama, S., Shida, Y., Asakawa, M., Ohtsuka, S., **Nakai, T.**, Boxshall, G.A., 2007. Isolation and characterization of bacteria from the copepod *Pseudocaligus fugu* ectoparasitic on the panther puffer *Takifugu pardalis* with the emphasis on TTX. *Toxicon* 50: 779-790.
- Furusawa, R., **Okinaka, Y.**, **Uematsu, K.**, **Nakai, T.**, 2007. Screening of freshwater fish species for their susceptibility to a betanodavirus. *Dis. Aquat. Org.*, 77: 119-125
- Hata, N., **Okinaka, Y.**, Sakamoto, T., Iwamoto, T., **Nakai, T.**, 2007. Upper temperature limits for the multiplication of betanodaviruses. *Fish Pathol.*, 42: 225-228
- 松岡 学・橋爪貴也・神崎博幸・岩本恵美・Se Chang Park・吉田照豊・中井敏博. 2007. ヒラメの β 溶血性レンサ球菌症に対するフェージ治療試験. *魚病研究*. 42: 181-189.
- 中井敏博. 2007. ヒトと動物の細菌感染症に対するバクテリオフェージ療法. *化学療法の領域*. 23: 28-34.
- 中井敏博. 2007. 畜産動物および魚類の感染症の現状とその対策3. 魚類のウイルス感染症の現状と対策. *防菌防黴誌*. 35: 119-129.
- Yoshimura, Y.**, Tsuchida, M., Nakamura, J., Saito, T., **Isobe, N.**, **Iijima, N.** 2007. Preparation and Application for Immunocytochemistry of Antibody to Gallinacin-3, an Antimicrobial Peptide, in Chicken. *J. Poultry Sci.*, 44: 433-438.
- Sakai, Y.**, **Kuniyoshi, H.**, **Yoshida, M.**, Fukui, Y., **Hashimoto, H.**, **Gushima, K.**, 2007. Social control of terminal phase transition in primary males of the diandric wrasse, *Halichoeres poecilopterus* (Pisces; Labridae). *Journal of Ethology*. 25: 57-61.

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

- Ohtsuka, S.**, Harada, K., Miyahara, K., Nagahama, T., Ogawa, K., Ohta, T., 2007. Prevalence and intensity of *Phrixecephalus umbellatus* (Copepoda: Siphonostomatoida: Pennellidae) parasitic on *Paralichthys olivaceus* in the western part of the Sea of Japan. *Fisheries Science* 73: 214-216.
- Ohtsuka, S.**, Harada, S., Shimomura, M., Boxshall, G.A., Yoshizaki, R., Ueno, D., Nitta, Y., Iwasaki, S., Okawachi, H., Sakakihara, T. 2007. Temporal partitioning: dynamics of altering occupancy of a host microhabitat by two different crustacean parasites. *Marine Ecology Progress Series* 348: 261-272.
- Ohtsuka, S.**, Horiguchi, T., **Nagasawa, K.** 2007. Symbionts of plankters: their diversity and importance. *Journal of Scientific Research, Chulalong Korn University (Section T)* 2550: 29-42.
- 大塚 攻・上田拓史・岩淵雅輝・伊東 宏・徐 浩榮・坂口穂子・平野和夫・木村妙子・上野大輔. 2007.

- 移入種か、在来種か?: 清水港から記載された浮遊性カイアシ類の1種の導入の可能性を検証する. *日本プランクトン学会報* **54**: 30-38.
- 大塚 攻・仲達宣人・田中 克・上田拓史. 2007. 有明海産スズキにおけるカイアシ類の寄生状況. *Nippon Suisan Gakkaishi* **73**: 693-702.
- Harada, A., **Ohtsuka, S.**, Horiguchi, T., 2007. Species of the parasitic genus *Duboscquella* are members of the enigmatic marine alveolate group I. *Protist* **158**: 337-347.
- Venmathi Maran, B. A., Iwamoto, E., **Okuda, J.**, Matsuda, S., Taniyama, S., Shida, Y., **Asakawa, M.**, **Ohtsuka, S.**, **Nakai, T.**, Boxshall, G.A. 2007. Isolation and characterization of bacteria from the copepod *Pseudocaligus fugu* ectoparasitic on the panther puffer *Takifugu pardalis* with the emphasis of TTX. *Toxicon* **50**: 779-790.
- Yamaguchi, A., **Ohtsuka, S.**, Hirakawa, K., Ikeda, T. 2007. Vertical distribution and feeding ecology of a copepod *Gaetanus variabilis* in the southern Japan Sea during winter. *La mer* **45**: 47-58.
- 木場有紀・谷田 創, 2007. ポニーにおけるヒト弁別能力に関する研究. *ヒトと動物の関係学会*. **19**: 75-86.
- 谷田 創・木場有紀. 2007. 「ヒトと家畜との関わりについて考えてみよう～動物介在教育と認知科学を通して～」(小櫃剛人編著, 動物とのふれあいを通じて学ぶアニマルサイエンス) 広大生物圏出版会, 広島: 61-77.
- 谷田 創. 2007. フィールド教育の評価方法について, (文部科学省「現代的教育ニーズ取組支援プログラム平成16年度～18年度大学間連携によるフィールド教育体系の構築～中国・四国地域の農学系学部をモデルとして～」報告書, 広島大学生物生産学部編). 163-172.
- 谷田 創・木場有紀・窪田浩和・竹本義邦. 2007. 瀬戸内圏フィールド科学教育研究センター西条ステーション(農場)における目標管理手法の導入. *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*. **4**: 1-8.
- 谷田 創・木場有紀. 2007. 瀬戸内圏フィールド科学教育研究センター, 特に西条ステーション(農場)における教育及び研究のあり方. *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*. **4**: 9-15.
- 谷田 創・木場有紀. 2007. フィールド教育における成績評価法, *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*. **4**: 17-24.
- 木場有紀・竹田重寿・積山嘉昌・山城英和・東脇隆文・窪田浩和・谷田 創. 2007. 瀬戸内圏フィールド科学教育研究センター西条ステーションのアクションプランの一環としての家畜飼育スキルアップのための勉強会の実施. *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*. **4**: 25-26.
- 木場有紀・Rushen, J・de Passillé, A. M・谷田 創. 2007. カウコンフォートを考える1, 家畜の福祉・有機農業とカウコンフォート. *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*. **4**: 27-29.
- 木場有紀・de Passillé, A. M・Rushen, J・谷田 創. 2007. カウコンフォートを考える2, 子牛のコンフォートとは. *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*. **4**: 31-36.
- 木場有紀・de Passillé, A. M・Rushen, J・谷田 創. 2007. カウコンフォートを考える3, 乳牛の跛行. *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*. **4**: 37-40.
- 木場有紀・村岡里香・坂口美香・谷田 創. 2007. ガーディングドッグによる野生動物被害対策への取り組みの現状と課題. *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*. **4**: 63-67.
- 谷田 創・木場有紀・出来さやか・金岡美幸・池田明子・掛 志穂・州濱美由紀・君岡智央・久原有貴・弓場奈穂子・山中覚美・東加奈子・磯村亜紀・有村由香. 2007. 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 I, 三原幼稚園における食農に対する保護者と園児の意識. *広島大学学部・附属学校共同研究紀要*. **35**: 317-321.

- Koba, Y., Deki, S., **Tanida, H.**, 2007. A survey of agricultural literacy of children, their guardians and teachers. *11th International Conference on Human-Animal Interactions*. Tokyo, Japan.
- Tanida, H.**, Koba, Y., Morita, A., Rushen, J., de Passillè, A. M., 2007. Miniature pig's abilities to recognize people from photographs. *11th International Conference on Human-Animal Interactions*. Tokyo, Japan.
- Muraoka, R., Sakaguchi, M., Koba, Y., Rushen, J., de Passillè, A.M., **Tanida, H.**, 2007. Rice field damage by wild boars in hilly and mountains region of Hiroshima. *11th International Conference on Human-Animal Interactions*. Tokyo, Japan.

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

- 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.
- Yamada, H., Horigome, C., Okada, T., Shirai, C., **Mizuta, K.**, 2007. Yeast Rrp14p is a nucleolar protein involved in both ribosome biogenesis and cell polarity. *RNA*. **13**: 1977-1987.
- 水田啓子. 2007. リボソーム生合成調節. 「酵母のすべて」(大隈良典・下田親編) シュプリンガー・ジャパン株式会社, 東京: 137-140.
- Miyake, D., Ichiki, S., Tanabe, M., Oda, T., Kuroda, H., Nishihara, H., **Sambongi, Y.**, 2007. Thiosulfate oxidation by a moderately thermophilic hydrogen-oxidizing bacterium, *Hydrogenophilus thermoluteolus*. *Arch. Microbiol.*, **188**: 199-204.
- Ogawa, K., Sonoyama, T., Takeda, T., Ichiki, S., Nakamura, S., Kobayashi, Y., Uchiyama, S., Nakasone, K., Takayama, S.J., Mita, H., Yamamoto, Y., **Sambongi, Y.**, 2007. Roles of a short connecting disulfide bond in the stability and function of psychrophilic *Shewanella violacea* cytochrome *c*⁵. *Extremophiles*, **11**: 797-807.
- Tokunaga, T., **Esaka, M.**, 2007. Induction of a novel XIP-type xylanase inhibitor by external ascorbic acid treatment and differential expression of XIP-family genes in rice. *Plant Cell Physiol.* **48**: 700-714.
- Badejo, A. A., Jeong, S.T., Goto-Yamamoto, N., **Esaka, M.**, 2007. Cloning and expression of GDP-D-mannose pyrophosphorylase gene and ascorbic acid content of acerola (*Malpighia glabra L.*) fruit at ripening stages. *Plant Physiol, Biochem.* **45**:665-672.
- Badejo, A. A., Jeong, S. T., Goto-Yamamoto, N., **Esaka, M.**, 2007. Molecular cloning and expression of GDP-D-mannose 3", 5"-epimerase during fruit ripening in acerola. *Acta Horticulturae.* **763**: 91-97.
- Tokunaga, T., Miyata, Y., **Esaka, M.**, 2007. Analysis of the molecular property and expression profile of a novel xylanase inhibitor in rice. In "The 5th International Symposium on the Molecular Breeding of Forage and Turf (MBFT)," Sapporo, Japan: 70.
- Hashizume, T., **Shimizu N.**, 2007. Dissection of Mammalian Replicators by a Novel Plasmid Stability Assay. *Journal of Cellular Biochemistry.* **101**: 552-565.
- Shimizu N.**, Hanada, N., Utani, K., Sekiguchi, N., 2007. Interconversion of Intra- and Extra-chromosomal Sites of Gene Amplification by Modulation of Gene Expression and DNA Methylation. *Journal of Cellular Biochemistry.* **102**: 515-529.
- Shimizu N.**, Kawamoto, J., Utani, K., 2007. Regulation of *c-myc* through intranuclear localization of its RNA subspecies. *Biochemical and Biophysical Research Communications.* **358**: 806-810.
- Utani, K., Kawamoto, J., **Shimizu N.**, 2007. Micronuclei bearing acentric extrachromosomal chromatin are transcriptionally competent and may perturb the cancer cell phenotype. *Molecular Cancer Research.* **5**: 695-704.
- Shimizu N.**, Misaka N., Utani, K., 2007. Nonselective DNA Damage Induced by a Replication Inhibitor Results in the Selective Elimination of Extrachromosomal Double Minutes From Human Cancer Cells. *Genes*,

Chromosomes and Cancer. **46**: 865-874.

- Kumeta, H., Ogura, K., Asayama, M., Katoh, S., Katoh, E., **Teshima, K.** and Inagaki, F., 2007. The NMR structure of the domain II of a chloroplastic NifU-like protein OsNifU1A. *J. Biomol. NMR*. **38** (2): 161-164.
- Saio, T., Kumeta, H., Ogura, K., Yokochi, M., Asayama, M., Katoh, S., Katoh, E., **Teshima, K.** and Inagaki, F., 2007. The cooperative role of OsCnfU-1A domain I and domain II in the iron-sulphur cluster transfer process as revealed by NMR. *J. Biochem.* **142**: 113-121.
- Chachin M., **Honda, K., Omura, H.**, 2007. Appraisal of the acceptability of subtropical rutaceous plants for a swallowtail butterfly, *Papilio protenor demetrius* (Lepidoptera: Papilionidae). *Applied Entomology and Zoology*. **42**: 121-128.
- Kohno T., Togashi K., **Fukamiya, N.** 2007. The nematocidal activity and the structure-activity relationships of stilbenes. *Natural Product Research*. **21**: 606-615.
- Miyamoto, K., Kimura, S., Nakamura, N., Yokoyama, T., **Horiuchi, H., Furusawa, S., Matsuda, H.**, 2007. Chicken antibody against a restrictive epitope of prion protein distinguishes normal and abnormal prion proteins. *Biologicals*. **35**: 303-308.
- Miyoshi, M., **Horiuchi, H.**, Fukushi, Y., **Matsuda, H., Furusawa, S.**, 2007. Cloning of the chicken interleukin-13 receptor alpha 2 gene and production of a specific monoclonal antibody. *Dev. Comp. Immunol.* **31**: 394-404.
- Miyamoto, K., Shimamoto, T., Aosasa, M., Kimura, S., Nakamura, N., Okubo, Y., Yokoyama, T., **Horiuchi, H., Furusawa, S., Matsuda, H.**, 2007. Development of recombinant chicken IgY from single chain fragment of variable region for diagnosis of BSE. *Biologicals*. **35**: 31-34.
- Kushima, K., Oda, K., Sakuma, S., **Furusawa, S.**, Fujiwara, M., 2007. Effect of prenatal administration of NSAIDs on the immune response in juvenile and adult rats. *Toxicology*. **232**: 257-267,
- Taniguchi, Y., Mizote, A., **Kohno, K.**, Iwaki, K., Oku, K., Chaen, H., Fukuda, S., 2007. Effects of dietary lactosucrose (4^α-b-D-galactosylsucrose) on the IgE response in mice. *Biosci. Biotechnol. Biochem.*, **71**: 2766-2773.
- Ohta, T.**, Fukuda, S., (太田恒孝・福田恵温) 2007. Hibernation study with Syrian hamsters. (シリアンハムスターを用いた冬眠研究) *ITE Letters* **8**: 504-508.
- 阿賀美穂・宮田学・牛尾知恵・吉實知代・有安利夫・新井成之・太田恒孝・福田恵温. 2007. 酸・タバコ煙成分による細胞障害に対するトレハロースの保護作用. *日本食品化学工学会誌* **54**: 374-378.
- Akita, K., Arai, S., **Ohta, T.**, Hanaya, T., Fukuda, S., 2007. Suppressed *nnal* gene expression in the brain of ataxic Syrian hamsters. *J. Neurogenet.* **21**: 19-29.
- Tanimoto, T., Yamamoto, S., Taniai, M., Taniguchi, M., Ariyasu, H., Ushio, C., Aga, M., Mukai, Y., Tsutsumi, Y., Ariyasu, T., **Ohta, T.**, Fukuda, S., 2007. The combination of IFN-α2 and IFN-α8 exhibits synergistic antiproliferative activity on renal cell carcinoma (RCC) cell lines through increased binding affinity for IFNAR-2. *J. Interferon Cytokine Res.* **27**: 517-523.
- Takayama, S., Inoue, S., Tanaka-Kataoka, M., Iwaki, K., Ikeda, M., Kurimoto, M., **Ohta, T.**, Fukuda, S., 2007. Trehalose suppresses weight loss of bone induced by high-dose sucrose diet: possible involvement of estradiol. *ITE Letters* **8**: 69-75.
- Ohta, H., Tanimoto, T., Taniai, M., Taniguchi, M., Ariyasu, T., Arai, S., **Ohta, T.**, Fukuda, S., 2007 Regulation of *Candida albicans* morphogenesis by tumor necrosis factor-α and potential for treatment of oral Candidiasis. *in vivo* **21**: 25-32.
- Akita, K., Hanaya, T., Arai, S., **Ohta, T.**, Okamoto, I., Fukuda, S., 2007. Purification, identification, characterization, and cDNA cloning of a high molecular weight extracellular superoxide dismutase of hamster that transiently increases in plasma during arousal from hibernation. *Comp. Biochem. Physiol. [A]*. **146**: 223-232.

Food Science and Biofunctions 食資源科学講座

- Sato, Y., Okuyama, S., **Hori, K.**, 2007. Primary structure and carbohydrate binding specificity of a potent anti-HIV lectin isolated from the filamentous cyanobacterium *Oscillatoria agardhii*. *J. Biol. Chem.* **282**: 11021-11029.
- Hori, K.**, Sato, Y., Ito, K., Fujiwara, Y., Iwamoto, Y., Makino, Y., Kawakubo, A., 2007. Strict specificity for high-mannose type N-glycans and primary structure of a red alga *Euclima serra* lectin. *Glycobiology* **17**: 479-491.
- 堀 貴治. 2007. 海藻資源からの糖鎖標的医薬素材・生化学素材・健康食品素材の開発. *藻類* **55**: 33-38.
- 奥山里美, 堀 貴治. 2007. 紅藻カギイバラノリ由来のコア (α 1-6) フコース特異的レクチンの糖タンパク質との相互作用解析. 杉山産業化学研究所年報 (平成19年). 28-44.
- Venmathi Maran, B.A., Iwamoto, E., Okuda, J., Matsuda, S., Taniyama S., Shida Y., **Asakawa, M.**, **Ohtsuka, S.**, **Nakai T.**, Boxshall, G.A., 2007. Isolation and characterization of bacteria from the copepod *Pseudocaligus fugu* ectoparasitic on the panther puffer *Takifugu pardalis* with the emphasis on TTX. *Toxicon*. **50**: 779-790.
- Tanabe, S.**, 2007. Epitope peptides and immunotherapy, *Curr. Protein. Pept. Sc.* **8**: 109-118.
- Tanabe, S.**, Miyauchi, E., Muneshige, A., Mio, K., Sato, C., Sato, M., 2007. PCR method of detecting pork in foods for verifying allergen labeling and for identifying hidden pork ingredients in processed foods. *Biosci. Biotechnol. Biochem.* **71**: 1663-1667.
- Tanabe, S.**, Kinuta, Y., Yasumatsu, H., Takayanagi, M., Kobayashi, S., Takido, N., Sugiyama, M., 2007. Effects of *Citrus unshiu* powder on the cytokine balance in peripheral blood mononuclear cells of patients with seasonal allergic rhinitis to pollen. *Biosci. Biotechnol. Biochem.* **71**: 2852-2855.
- Tanabe, S.**, Hase, M., Yano, T., Sato, M., Fujimura, T., Akiyama, H., 2007. A real-time quantitative PCR detection method for pork, chicken, beef, mutton and horseflesh in Foods. *Biosci. Biotechnol. Biochem.* **71**: 3131-3135
- 田辺創一. 2007. 低アレルギー化食品の開発. 「食の安全を担う科学研究の新たな展開」(食の安全研究センター設立記念国際シンポジウム組織委員会 編)三協社, 東京: 84-92.
- 渡辺 純・田辺創一. 2007. アレルギー対応食品の開発, アレルギー解析から抗アレルギー食品の設計まで. *化学と生物*. **45**: 168-176.
- 古林万木夫・田辺創一・谷内昇一郎. 2007. 醤油醸造における小麦アレルギーの分解機構. *日本小児アレルギー学会誌*. **21**: 96-101.
- 田辺創一. 2007. アレルギー抑制の実際の方策. *ジャパンフードサイエンス*. **46**: 40-45.
- Zhaorigetsu, S., Sasaki, M., **Kato, N.**, 2007. Consumption of sericin suppresses colon oxidative stress and aberrant crypt foci in 1, 2-dimethylhydrazine-treated rats by colon undigested sericin. *J. Nutr. Sci. Vitaminol.* **53**: 297-300.
- Tomotake, H., Yamamoto, N., Kitabayashi, H., Kawakami, A., Kayashita, J., Ohinata, H., Karasawa, H., **Kato, N.**, 2007. Preparation of tartary buckwheat protein product and its improving effect on cholesterol metabolism in rats and mice fed cholesterol-enriched diet. *J. Food Sci.* **72**: 528-533.
- 水品善之・松原主典・加藤範久. 2007. ビタミンB6は複数のDNA代謝酵素の中からがん予防の標的となる分子種のみを選択的に阻害する. *ビタミン*. **81**: 235-237.
- Mizushima, Y., Dairaku, I., **Yanaka, N.**, Takeuchi, T., Ishimaru, C., Sugawara, F., Yoshida, H., **Kato, N.**, 2007. Inhibitory action of polyunsaturated fatty acids on IMP dehydrogenase. *Biochimie.* **89**: 581-590.
- Yanaka, N.**, 2007. Mammalian glycerophosphodiester phosphodiesterases. *Biosci. Biotechnol. Biochem.* **71**: 1811-1818.
- Yanaka, N.**, Nogusa, Y., Fujioka, Y., Yamashita, Y., Kato, N., 2007. Involvement of membrane protein GDE2 in retinoic acid-induced neurite formation in Neuro2A cells. *FEBS Lett.* **581**: 712-718.

- Arima, S., Ueji, T., **Ueno, S.**, Ogawa, A. and **Sato, K.**, 2007, Retardation of crystallization-induced destabilization of PMF-in-water emulsion with emulsifier additives. *Colloids and Surfaces. B55* : 98-106.
- Zhang, L., **Ueno, S.** and **Sato, K.**, 2007, Binary Phase Behavior of 1, 3-Dipalmitoyl-2-oleoyl-sn-glycerol and 1,2-Dioleoyl-3-palmitoyl-rac-glycerol, *J. Am. Oil. Chem. Soc.* **84**: 219-227.
- Yamashita, M. and **Ueno, S.**, 2007, Direct melt crystal growth of isotactic polybutene-1 trigonal phase, *Cryst. Res. Technol.* **42**: 1222-1227.
- 上野 聡, 2007, 放射光X線回折法を用いた食品の微細構造とそのダイナミクスの解明. *化学と生物.* **45**: 550-556.
- Ahmed, A. M., Hussein, A. I. A., **Shimamoto, T.**, 2007. *Proteus mirabilis* clinical isolate harbouring a new variant of *Salmonella* genomic island 1 containing the multiple antibiotic resistance region. *J. Antimicrob. Chemother.* **59**: 184-190.
- Ahmed, A. M., Motoi, Y., Sato, M., Maruyama, A., Watanabe, H., Fukumoto, Y., **Shimamoto, T.**, 2007. Zoo animals as reservoirs of gram-negative bacteria harboring integrons and antimicrobial resistance genes. *Appl. Environ. Microbiol.* **73**: 6686-6690.
- Ahmed, A. M., Motoi, Y., Sato, M., Maruyama, A., Watanabe, H., Fukumoto, Y., **Shimamoto, T.**, 2007. Zoo animals as a reservoir of gram-negative bacteria harboring integrons and antimicrobial resistance genes. 13th International Symposium for the World Association of Veterinary Laboratory Diagnosticians (Melbourne, Australia).
- Inouye, K, **Shimamoto, T.**, 2007. A novel retron element is replaced with retron-Vc95 in *Vibrio cholerae* non-O1, non-O139. United States-Japan Cooperative Medical Science Program 42nd Panel Meeting on Cholera and Other Bacterial Infections (Austin, USA).
- 羽倉義雄, 2007. 電気的物性によるフライ油の劣化度測定. *食品と技術.* **437**: 1-8.
- Keawkaika, S., **Hagura, Y.**, **Suzuki, K.**, 2007. Comparison of the viscoelastic properties of fluid foods measured by the non-rotational concentric cylinder method with those by the dynamic oscillatory method. *Japan Journal of Food Engineering.* **8**: 155-162.
- Maruyama, K., Sakashita, T., **Hagura, Y.**, **Suzuki, K.**, 2007. Relationship between rheology, particle size and texture of mayonnase. *Food Sci. Technol. Res.* **13**: 1-6.
- Shigeta, Y., Aoyama, Y., Okazaki, T., **Hagura, Y.**, **Suzuki, K.**, 2007. Hydrostatic pressure-induced germination and inactivation of *Bacillus* spores in the presence or absence of nutrients. *Food Sci. Technol. Res.* **13**: 193-199.
- Suzuki, K.**, Imaoka, K., Keawkaika, S., **Hagura, Y.**, 2007. Two-element model analysis of the viscoelastic behavior of liquid food materials by means of non-rotational concentric cylinder method. *Japan Journal of Food Engineering.* **8**: 73-80.
- Wen, Q., Ye, J., Xue, W., Huang, A., **Hagura, Y.**, **Suzuki, K.**, 2007. Correlation between Dielectric Properties and Freshness of Leaf Vegetables. *Journal of Food Processing and Preservation.* **31**: 736-750.
- 雨坪知音・羽倉義雄・鈴木寛一, 2007. 過熱水蒸気処理における遠赤外線過熱併用が大豆油の品質に及ぼす影響. *日本食品科学工学会誌.* **54**: 347-350.
- 鈴木寛一・伊藤剛・羽倉義雄, 2007. 過熱水蒸気を用いる炭水化物の炭化特性. *日本食品工学会誌.* **8**: 39-43.
- Fujita, A., Soma, N., **Goto-Yamamoto, N.**, Mizuno, A., Kiso, K., Hashizume, K., 2007. Effect of shading on proanthocyanidin biosynthesis in the grape berry. *J. Japan. Soc. Hort. Sci.* **76**: 112-119.
- Koyama, K., **Goto-Yamamoto, N.**, Hashizume, K., 2007. Influence of maceration temperature in red wine vinification on extraction of phenolics from berry skins and seeds of grape (*Vitis vinifera*). *Biosci. Biotechnol. Biochem.* **71**: 958-965.
- Mori, K., **Goto-Yamamoto, N.**, Kitayama, M., Hashizume, K., 2007. Loss of anthocyanins in red-wine grape under high temperature. *J. Exp. Botany.* **58**: 1935-1945.

- Mori, K., **Goto-Yamamoto, N.**, Kitayama, M., Hashizume, K., 2007. Effect of high temperature on anthocyanin composition and transcription of flavonoid hydroxylase genes in 'Pinot noir' grapes (*Vitis vinifera*). *J. Hort. Sci. Biotechnol.* **82**: 199-206.
- Badejo, A. A., Jeong, S. T., **Goto-Yamamoto, N.**, **Esaka, M.**, 2007. Cloning and expression of GDP-D-mannose pyrophosphorylase gene and ascorbic acid content of acerola (*Malpighia glabra* L.) fruit at ripening stages. *Plant Physiol. Biochem.* **45**: 665-672.
- 後藤(山本)奈美・山下裕之・橋口知一・沼田美子代. 2007. ブドウ栽培におけるキャプタンの施用とその発酵阻害作用について. *J. ASEV Jpn.* **18**: 79-84.
- 相馬紀子・後藤(山本)奈美・磯谷敦子・古川準三. 2007. ブドウ 'ミュラー・トゥルガウ' の成熟経過におけるモノテルペン類の変化とワイン中のモノテルペン濃度に及ぼす醸造条件の影響. *J. ASEV Jpn.* **18**: 85-93.
- 後藤奈美. 2007. ブドウとワインの渋味成分. *食品と技術.* **428**: 1-9.
- Sakamoto, F., Nankawa, T., Kozai, N., **Fujii, T.**, **Iefuji, H.**, Francis, A.J., Ohnuki, T., 2007. Protein expression of *Saccharomyces cerevisiae* in response to uranium exposure. *Journal of Nuclear and Radiochemical Sciences.* **8**: 99-102.
- Kawahata, M., **Fujii, T.**, **Iefuji, H.**, 2007. Intraspecies Diversity of the Industrial Yeast Strains *Saccharomyces cerevisiae* and *Saccharomyces pastorianus* Based on Analysis of the Sequences of the Internal Transcribed Spacer (ITS) Regions and the D1/D2 Region of 26S rDNA. *Biosci. Biotechnol. Biochem.* **71**: 1616-1620.
- Shobayashi, M., Ukena, E., **Fujii, T.**, **Iefuji, H.**, 2007. Genome-Wide Expression Profile of Sake Brewing Yeast under Shaking and Static Conditions. *Biosci., Biotechnol., Biochem.* **71**: 323-335.
- Shobayashi, M., **Fujii, T.**, **Iefuji, H.**, Effects of Accumulated SAM on Growth of Yeast. *Biosci. Biotechnol. Biochem.* **71**: 1595-1597.
- 藤井 力. 2007. 醸造技術の応用研究. *バイオサイエンスとインダストリー.* **65**: 32.
- 藤井 力. 2007. 平成18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.* **102**: 260-306.

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

- Kim, M, H., **Nakane, K.**, Na, Y, E., Lee, J, T., 2007. Woody tissue respiration in stems of red pine (*Pines densiflora*) trees. *Korean journal of Agricultural and Forest Meteorology.* **9**: 203-208.
- Azam, H, M., **Nakane, K.**, 2007. Relationship between vegetation composition and dissolved nitrogen in wetlands of Higashi-Hiroshima, west Japan. *Journal of Ecology and Field Biology.* **30**: 209-223.
- Shuto, K., **Nakane K.**, 2007. Model simulation of carbon dynamics with stand development in Japanese cedar (*Cryptomeria japonica*) plantations. *Ecol. Res.* **22**: 515-526.
- Kim, M, H., **Nakane, K.**, Na, Y, E., Lee, J, T., Bang, H, S., 2007. Stem/branch maintenance respiration of Japanese red pine stand. *Forest Ecol. Manag.* **243**: 283-290.
- 中根周歩・実岡寛文・中坪孝之・河村 求. 2007. 屋上緑化における熱の動態と温度変化. 広島大学・屋上緑化研究報告 [Ⅷ] 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・実岡寛文・中坪孝之・小野勝義. 2007. 屋上緑化における竹炭の量・形状・炭化温度及び土壤構造が保水力に及ぼす効果. 広島大学・屋上緑化研究報告 [Ⅷ] 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.
- Sasaki A.**, **Nakatsubo T.**, 2007. Nitrogen and phosphorus economy of the riparian shrub *Salix gracilistyla* in western Japan. *Wetlands. Ecol. Manag.* **15**: 165-174.
- Yoshitake, S., Uchida, M., Koizumi, H., **Nakatsubo T.**, 2007. Carbon and nitrogen limitation of soil microbial respiration in a High Arctic successional glacier foreland near Ny-Ålesund, Svalbard. *Polar Res.*

26: 22-30

- Sasaki, A.**, Shikanya, S., **Takeda, K.**, **Nakatsubo T.**, 2007. Dissolved organic matter originating from the riparian shrub *Salix gracilistyla*. *J. For. Res.* **12**: 68-74.
- Yoshitake, S., **Sasaki, A.**, Uchida, M., Funatsu, Y., **Nakatsubo, T.**, 2007. Carbon and nitrogen limitation to microbial respiration and biomass in an acidic solfatara field. *Eur. J. Soil Biol.* **43**: 1-13.
- Leeben, A., **Sakugawa, H.**, 2007. Impact of resuspension events on the carbon budget of Hiroshima Bay, Japan. *Geochimica et Cosmochimica Acta.* **70**: A351.
- Nakatani, N., Hashimoto, N., Shindo, H., Yamamoto, M., Kikkawa, M., **Sakugawa, H.**, 2007. Determination of photoformation rates and scavenging rate constants of hydroxyl radicals in natural waters using an automatic light irradiation and injection system. *Anal. Chem. Acta.* **58**: 260-267.
- Nakatani, N., Akane, S., Chiwa, M., Kobayashi, T., **Sakugawa, H.**, 2007. Roles of hydroxyl radical generating/scavenging mechanisms in pseudo polluted dew in reducing the foliar CO₂ assimilation rate and biomass production of Japanese red pine (*Pinus densiflora* Sieb. et Zucc.) seedlings. *Environ. Exp. Bot.* **60**: 159-169.
- Tham Y. W. F., Ozaki, N., **Sakugawa, H.**, 2007. Polycyclic aromatic hydrocarbons (PAHs) in the aerosol of Higashi Hiroshima, Japan: pollution scenario and source identification. *Water Air Soil Poll.* **182**: 235-243.
- Tham Y. W. F., **Sakugawa, H.**, 2007. Preliminary study of the photolysis of fluorene in rainwater, *B. Environ. Contam. Tox.* **79**: 670-673.
- Sakugawa, H.**, Cape, J. N., 2007. Harmful effects of atmospheric nitrous acid on the physiological status of scots pine trees. *Environ. Pollut.* **147**: 532-534.
- Nakatani, N., Ueda, M., Shindo, H., **Takeda, K.**, **Sakugawa, H.**, 2007. Contribution of the photo-Fenton reaction to hydroxyl radical formation rates in river and rain waters. *Anal. Sci.* **23**: 1137-1142.
- Harima, Y., Kawabuchi, K., Kajiwar, S., Ishii, A., Ooyama, Y., **Takeda, K.**, 2007. Improvement of photovoltages in dye-sensitized solar cells by Li-intercalation in particulate TiO₂ electrodes. *Appl. Phys. Lett.* **90**: 103517.
- 原島省・井関和夫・樽谷賢治. 2007. 流入栄養塩比の変化による内湾・大陸棚域の生態系変質の可能性. *海と空.* **82**: 11-21.
- 早野智子・井関和夫・中嶋さやか・手塚尚明・浜口昌巳・新村陽子. 2007. 周防灘西部海域における基礎生産量の季節変動と海洋環境との関連. 第6回海環境と生物および沿岸環境の修復技術に関するシンポジウム要旨集. 129-135.
- 中嶋さやか・井関和夫・斉藤美薦・手塚尚明・浜口昌巳・上村了美. 2007. 周防灘における栄養塩及び粒状懸濁物の季節・海域変動と生物生産との関連. 第6回海環境と生物および沿岸環境の修復技術に関するシンポジウム要旨集. 123-128.
- 井関和夫. 2007. 地域研究集会報告：東シナ海における物質循環機構と長江河川水による海洋生態系変質の可能性. *水産海洋研究.* **71**: 301-302.
- 山本民次・古谷 研 (編). 2007. 「閉鎖性海域の環境再生」, 水産学シリーズ, 日本水産学会 (監修), 恒星社厚生閣, 東京: pp. 163.
- 山本民次・橋本俊也. 2007. エスチュアリー循環と一次生産. *沿岸海洋研究.* **44**: 137-145.
- 山本民次. 2007. ダム建設によるエスチュアリーへの貧栄養化と植物プランクトン相の変化. *日本水産学会誌.* **73**: 80-84.
- 原口浩一・国分秀樹・奥村宏征・山本民次. 2007. 英虞湾に於ける漁獲による窒素回収. *水産増殖.* **55**: 653-654.
- Kittiwanih, J., **Yamamoto, T.**, **Hashimoto, T.**, Tsuji, K., Kawaguchi, O., 2007. Analyses of phosphorus and nitrogen cyclings in the estuarine ecosystem of Hiroshima Bay by a pelagic and benthic coupled model. *Est. Coast. Shelf Sci.* **75**: 189-204.
- Yamamoto, T.**, Goto, I., Kawaguchi, O., Minagawa, K., Ariyoshi, E., Matuda, O., 2007. Phytoremediation of shallow

- eutrophic marine sediments using benthic microalgae. *Mar. Poll. Bull.* **57/1-5**: 108-115.
- 山本民次・大久保文恵・伊達悦二. 2007. 広島県太田川・八幡川に設けられた貯水池前後での水質の長期変動. 広島大学大学院生物圏科学研究科紀要, **46**: 43-57.
- 山本民次. 2007. 水産環境保全にとっての干潟再生の意義. *水産学会誌*, **73**: 339-342.
- 山本民次. 2007. 閉鎖性海域の水産環境保全. *水産学会誌*, **73**: 1183-1186.
- 山本民次. 2007. 生物環境としての浅海域の重要性. *瀬戸内海*, **51**: 15-18.
- 山本民次. 2007. 我が国の干潟再生研究と事業. *月刊海洋*, **39**: 569-574.
- 片山貴之・加村 聡・原口浩一・山本民次・山形陽一. 2007. 人工中層海底による環境改善システムの開発. 三重県地域結集型共同研究事業「閉鎖性海域における環境創生プロジェクト」環境技術集: 103-113.
- 山本民次. 2007. 砕石石粉を用いた水域底質改善材の開発. 平成18年度共同研究報告書. pp. 11.
- 山本民次. 2007. 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18年度共同研究報告書. pp. 11.
- 山本民次・斉藤英俊. 2007. 付着生物に対するHUSの効果試験. 平成18年度共同研究報告書. pp. 47.
- 山本民次ほか: 新奇有毒プランクトン *Gymnodinium catenatum* の発生機構の解明. 5カ年のとりまとめ報告書. 瀬戸内海区水産研究所運営費交付金プロジェクト研究. pp. 65.
- 山本民次・山田 寛・中山憲治・藪田和哉. 2007. 製鋼スラグと微細藻からなる環境改善材の開発. 平成18年度特定非営利活動法人広島循環型社会推進機構研究課題成果報告書: 327-346.
- 橋本俊也・青野 豊・山本民次. 2007. 広島湾生態系の保全と管理. 「閉鎖性海域の環境再生, 水産学シリーズNO. 156」(山本民次・古谷 研編) 恒星社厚生閣, 東京: 57-68.
- Kanai, S., Ohkura, K., J. J. Adu-Gyamfi, J. J., Mohapatra, P. K., Nguyen, N.T., **Saneoka, H., Fujita, K.**, 2007. Depression of sink activity precedes the inhibition of biomass production in tomato plants subjected to potassium deficiency stress. *J. Exp. Bot.* **58**: 2917-2928.
- Moghaieb, R. E. A., **Saneoka, H.**, Youssef, S. S., EL-Sharkawy, A. M., **Fujita, K.**, 2007. Improvement of salt tolerance in tomato plant (*Lycopersicon esculentum*) by transformation with ectoine biosynthetic genes. *Transgenic Plant J.* **1**: 228-232.
- El-Shemy, H., Khalafalla, H. A., **Fujita, K.**, Ishimoto, M., 2007. Improvement of protein quality in transgenic soybean plants. *Biol. Plantarum*, **51**: 277-284.
- El-Shemy, H. A., Aboul-Enein, A. M., Khalid Aboul-Enein, M. I., **Fujita, K.**, 2007. Willow leaves extracts contain anti-tumor agents effective against three cell types. *PLoS ONE*, **2**: e178: 1-5.
- Nakayama, N., **Saneoka, H.**, Moghaieb, R.E.A., Premachandra, G.S., **Fujita, K.**, 2007. Response of growth, photosynthetic gas exchange, the translocation of ¹³C-labelled photosynthate and N accumulation in two soybean (*Glycine max* L. Merrill) cultivars to drought stress. *Int. J. Agri. Biol.* **9**: 669-674.
- 中山宣洋・実岡寛文・藤田耕之輔. 2007. サリチル酸施与による乾燥および再給水時におけるダイズ耐乾性の向上. 日本作物学会中国支部研究収録. **48**: 18-19.
- Kobayashi, H., **Masaoka, Y.**, Takahashi, Y., Ide, Y., Sato, S., 2007. Ability of salt glands in Rhodes grass (*Chloris gayana* Kunth) to secrete Na⁺ and K⁺. *Soil Sci. Plant Nutr.* **53**: 764-771.
- 正岡淑邦. 2007. 葉野菜のアスコルビン酸濃度とカリウムの関係. *農業と科学* (チッソ旭肥料株式会社): 1-5.
- 正岡淑邦他共著. 2007. 草地管理指標. 「草地の土壤管理及び施肥編」(農林水産省生産局) 日本草地畜産種子協会: 16-20, 108-113.
- 政岡賢一・二村優次・中山宣洋・実岡寛文・Victor, Raboy. 2007. 低フィチンダイズの全リン酸、タンパク質及びイソフラボン含量の変動～普通栽培品種と比較して～. 日本作物学会中国支部研究収録. **48**: 30-31.

Assessment of Environmental Dynamics 環境評価論講座

- Shimauchi, H., Uye, S., 2007. Excretion and respiration rates of the scyphomedusa *Aurelia aurita* from the Inland Sea of Japan. *J. Oceanogr.* **63**: 27-34.
- Purcell, J. R., Uye, S., Lo, W.-T., 2007. Ecological and socio-economic effects of jellyfish blooms. In "Chemical Pollution and Environmental Changes, Proceedings of COE International Symposium 2006," Ed. Tanabe, S., Takeoka, H., Isobe, T., Nishibe, Y., University Academic Press, Tokyo: 375-378.
- 上 真一. 2007. 大型クラゲ*Nemopilema nomurai*に関する研究の現状と方向性: 大型クラゲの幼生期の生理・生態学的特性. *日本水産学会漁業懇話会報.* **52**: 1-2.
- 上 真一. 2007. 瀬戸内海を里海に: 瀬戸内海の水質と生物生産過程の変遷. *瀬戸内海.* **49**: 5-8.
- Ohtsu, K., Kawahara M., Ikeda, H., Uye S., 2007. Experimental induction of gonadal maturation and spawning in the giant jellyfish *Nemopilema nomurai* (Scyphozoa: Rhizostomeae). *Mar. Biol.* **152**: 667-676.
- Purcell, J. E., Uye, S., W. T. Lo., 2007. Anthropogenic causes of jellyfish blooms and their direct consequences for humans: a review. *Mar. Ecol. Prog. Ser.* **350**: 153-174.
- Connelly, D. P., German, C. R., Asada, M., Okino, K., Egorov, A., Naganuma, T., Pimenov, N., Cherkashev, G., Tamaki, K., 2007. Hydrothermal Activity on the ultra-slow spreading southern Knipovich Ridge. *Geochemistry Geophysics Geosystems.* **8**: Q08013, doi:10.1029/2007GC001652.
- Elsaied, H. E., Kimura, H., Naganuma, T., 2007. Composition of archaeal, bacterial, and eukaryal RuBisCO genotypes in three Western Pacific arc hydrothermal vent systems. *Extremophiles.* **11**: 191-202.
- Hayashi, T., Obata, H., Gamo, T., Sano, Y., Naganuma, T., 2007. Distribution and phylogenetic characteristics of the genes encoding enzymes relevant to methane oxidation in oxygen minimum zones of the eastern Pacific Ocean. *Research Journal of Environmental Sciences.* **1**: 275-284.
- Hayashi, T., Kaneko, R., Tanahashi, M., Naganuma, T., 2007. Molecular diversity of the genes encoding ammonia monooxygenase and particulate methane monooxygenase from deep-sea sediments. *Research Journal of Microbiology.* **2**: 530-537.
- Hua, N.-P., Naganuma, T., 2007. Application of capillary electrophoresis for determination of DNA base composition. *Electrophoresis.* **28**: 366-372.
- Hua, N.-P., Kanekiyo, A., Fujikura, K., Yasuda, Y., Naganuma, T., 2007. Deep-sea moderately halophilic bacteria *Halobacillus profundus* sp. nov. and *Halobacillus kuroshimensis* sp. nov. isolated from a methane cold seep. *Int. J. Syst. Evol. Microbiol.* **57**: 1243-1249.
- Hua, N.-P., Kobayashi, K., Iwasaka, Y., Shi, G.-Y., Naganuma T., 2007. Detailed identification of desert-originating bacteria carried by Asian dust storms to Japan. *Aerobiologia.* **23**: 291-298.
- Kaneko, R., Hayashi, T., Tanahashi, M., Naganuma, T., 2007. Phylogenetic diversity and distribution of dissimilatory sulfite reductase genes from deep-sea sediment cores. *Mar. Biotechnol.* **9**: 429-436.
- Naganuma, T., Kimura, H., Karimoto, R., Pimenov, N. V., 2007. Abundances of planktonic thraustochytrids and bacteria and of particulate ATP in the Greenland and Norwegian Seas. *Polar Bioscience.* **20**: 37-45.
- Naganuma, T., Miyoshi, T., Kimura, H., 2007. Phylotype diversity of deep-sea hydrothermal vent prokaryotes trapped by 0.2- and 0.1- μ m-pore-size filters. *Extremophiles.* **11**: 637-646.
- Shimizu, S., Akiyama, M., Naganuma, T., Fujioka, M., Nako M., Ishijima, Y., 2007. Influence of N₂ gas injection on microbial community structure in deep coal seam groundwater. *Geobiology.* **5**: 423-433.
- Yoshida, H., Yamamoto, K., Murakami, Y., Katsuta, N., Hayashi, T., Naganuma, T., 2007. The development of Fe-nodules surrounding biological material mediated by microorganisms. *Environ. Geol.* DOI 10.1007/s00254-007-1087-x.
- 林 徹・金子 亮・棚橋 学・長沼 毅. 2007. 南海トラフ堆積物におけるアンモニア/メタン酸化酵素遺伝子の分布と多様性. *堆積学研究.* **64**: 49-53.
- 金子 亮・林 徹・棚橋 学・長沼 毅. 2007. 南海トラフ堆積物における硫酸還元酵素遺伝子の分布およ

- び多様性に関する研究. *堆積学研究*. **64**: 73-76.
- 倉持卓司・須藤裕介・小川麻里・玉城英信・長沼 毅. 2007. 琉球列島久米島沖より採集されたツノモチダコ. *南紀生物*. **49**: 53-54.
- 長沼 毅. 2007. 生態系と水. 「水 その不思議な世界」(山崎伸道編)高知新聞社, 高知: 70-78.
- 長沼 毅・高地秀明・畦 浩二・柏原林造・小茂田聖士・野添 生・林 靖弘・平賀博之・丸本 浩・山下雅文. 2007. 言葉で伝える理科教育の可能性に関する研究(Ⅲ). *広島大学 学部・附属学校共同研究機構研究紀要*. **35**: 413-418.
- Koike, K.**, Yamashita, H., Oh-Uchi, A., Tamaki, M., Hayashibara, T., 2007. A quantitative real-time PCR method for monitoring *Symbiodinium* in the water column. *Galaxea*. **9**: 1-9.
- Koike, K.**, Nishiyama, A., Takishita, K., Kobiyama, A., Ogata, T., 2007. Appearance of *Dinophysis fortii* following blooms of certain cryptophyte species. *Mar. Ecol. Prog. Ser.* **337**: 303-309.
- Suzuki, T., Horie, Y., **Koike, K.**, Satake, M., Oshima, Y., Iwataki, M., Yoshimatsu, S., 2007. Yessotoxin analogues in several strains of *Protoceratium reticulatum* in Japan determined by liquid chromatography-hybrid triple quadrupole/linear ion trap mass spectrometry. *J. Chromatogr. A*. **1142**: 172-177.
- Lim, P. T., Sato, S., Thuoc, C. H., Tu, P. T., Huyen, N. T. M., Takata, Y., Yoshida, M. Kobiyama, A., **Koike, K.**, Ogata, T., 2007. Toxic *Alexandrium minutum* (Dinophyceae) from Vietnam with new gonyautoxin analogue. *Harmful Algae*. **6**: 321-331.
- 小池一彦・高木 稔・瀧下清貴. 2007. *Dinophysis*属の個体群動態と生理的特徴. 「貝毒研究の最先端—現状と展望」(今井一郎・福代康夫・広石伸吾編)恒星社厚生閣, 東京: 100-117.
- Blahovec, J., Akimoto, h., **Sakurai, N.**, 2007. Laser Doppler forced vibrology of soft agricultural products. *Appl. Rheol.* **17**: 25111-1-25111-7.
- Blahovec, J., Kuroki, S., **Sakurai, N.**, 2007. Cooking kinetics of potato tubers determined by vibration techniques. *Food Res. Int.* **40**: 576-584.
- Taniwaki, M., Akimoto, K., Hanada, T., Tohoru, M., **Sakurai, N.**, 2007 Improved methodology of measuring moisture content of wood by a vibrational technique. *Wood Material Science and Engineering*. **2**: 77-82.
- 井川 学・櫻井直樹. 2007. 「酸性霧の樹冠への沈着から森林衰退までのプロセスの解明と森林再生プログラムの検討」, 平成15年度～18年度科学研究費補助金(基盤研究(A)研究成果報告書)15201008
- 山本良一・櫻井直樹(共著). 2007. 絵とき植物生理学入門(改訂2版)(増田芳雄監修). オーム社, pp. 235.
- Hashimoto, M., Herai, Y., **Nagaoka, T.**, **Kouno, K.**, 2007. Nitrate leaching in granitic regosol as affected by N uptake and transpiration by corn. *Soil Sci. Plant Nutr.* **53**: 300-309.
- Wickramatilake, A. R. P., **Kouno, K.**, 2007. Remediation of copper contaminated soil using potential copper-accumulating plants. *Proceedings of the 21th Asian Pacific Weed Science Society Conference* (B Marambe et al. Eds.): 498-502.
- 中越信和・河野憲治・小松登志子・尾崎則篤・早川誠而・金 存恩・渡辺園子・上野吉雄・頭山昌郁. 2007. 温井ダム緑化工学 太田川流域の景観生態学的研究. 平成18年度国土交通省中国四国地方整備局受託研究報告書: 3-1-3-14.
- 河野憲治. 2007. ダム堆積土の微生物特性を利用した高機能性土壌の開発. 平成18年度共同研究報告書. pp. 20.
- Fukuda, T., Saito, A., **Wasaki, J.**, Shinano, T., Osaki, M., 2007. Metabolic alterations proposed by proteome in rice roots grown under low P and high Al concentration under low pH. *Plant Sci.* **172**: 1157-1165.
- Ito, S., Hamada, S., Yamaguchi, K., Umene, S., Ito, H., Matsui, H., Ozawa, T., Taguchi, H., Watanabe, J., **Wasaki, J.**, Ito, S., 2007. Cloning and sequencing of the cellobiose 2-epimerase gene from an obligatory anaerobe, *Ruminococcus albus*. *Biochem. Bioph. Res. Co.* **360**: 640-645.
- Matsuda, M., Otsuka, Y., Jin, S., **Wasaki, J.**, Watanabe, J., Watanabe, T., Osaki, M., 2007. Biotransformation from (+)-catechin to taxifolin due to two steps oxidation; Primary stage of (+)-catechin metabolism by a

- novel (+)-catechin degradation bacteria, *Burkholderia* sp., KTC-1 isolated from tropical peat. *Biochem. Bioph. Res. Co.* **366**: 414-419.
- 和崎 淳・赤坂 弘. 2007. 根圏の力：根のまわりを科学する. *Materials Integration.* **20**: 89-93.
- Yoshida, T., Iizuka, R., Itami, K., Yasunaga, T., Sakuraba, H., Ohshima, T., Yohda, M., **Maruyama, T.**, 2007. Comparative analysis of the protein folding activities of two chaperonin subunits of *Thermococcus* strain KS-1; the effect of beryllium fluoride. *Extremophiles.* **11**: 225-235.
- Fujikura, K., Amaki, K., Barry, J. P., Fujiwara, Y., Furushima, Y., Iwase, R., Yamamoto, H., **Maruyama, T.**, 2007. Direct observations of spawning behavior and synchrony in *Calymptogena* clams using an observatory and an estimate of fecundity. *Mar. Ecol. Prog. Ser.* **333**: 185-193.
- Ohishi, K., Katsumata, E., Uchida, K., **Maruyama, T.**, 2007. Two stranded pygmy sperm whales with anti-*Brucella* antibodies in Japan. *Vet. Record.* **160**: 628-629.
- Fujiwara, Y., Kawato, M., Yamamoto, T., Yamanaka, T., Sato-Okoshi, W., Noda, C., Tsuchida, S., Komai, T., Cubelio, S. S., Sasaki, T., Jacobsen, K., Kubokawa, K., Fujikura, K., **Maruyama, T.**, Furushima, Y., Okoshi, K., Miyake, H., Miyazaki, M., Nogi, Y., Yatabe, A., Okutani, T., 2007. Three-year investigations into sperm whale-fall ecosystems in Japan. *Mar. Ecol.* **28**: 1-14.
- Münchhoff, J., Hirose, E., **Maruyama, T.**, Sunairi, M., Burns B. P., Neilan, B. A., 2007. Host specificity and phylogeography of the prochlorophyte *Prochloron* sp., an obligate symbiont in didemnid ascidians. *Environ. Microbiol.* **9**: 890-899.
- Takishita, K., Yubuki, N., Kakizoe, N., Inagaki, Y., **Maruyama, T.**, 2007. Diversity of microbial eukaryotes in sediment at a deep-sea methane cold seep: surveys of ribosomal DNA libraries from raw sediment samples and two enrichment cultures. *Extremophiles.* **11**: 563-576.
- Kuwahara, H., Yoshida, T., Takaki, Y., Shimamura, S., Nishi, S., Harada, M., Matsuyama, K., Takishita, K., Kawato, M., Uematsu, K., Fujiwara, Y., Sato, T., Kato, C., Kitagawa, M., Kato, I., **Maruyama, T.**, 2007. Reduced genome of the thioautotrophic intracellular symbiont in a deep-sea clam, *Calymptogena okutanii*. *Curr. Biol.* **17**: 881-886.
- Yokobori, S., Lindsay, D. J., Yoshida, M., Tsuchiya, K., Yamagishi, A., **Maruyama, T.**, Oshima, T., 2007. Mitochondrial genome structure and evolution in the living fossil vampire squid, *Vampyroteuthis infernalis*, and extant cephalopods. *Mol. Phyl. Evol.* **44**: 898-910.
- Reimer, J. D., Takishita, K., Ono, S., Tsukahara, J., **Maruyama, T.**, 2007. Molecular evidence suggesting interspecific hybridization in *Zoanthus* spp. (Anthozoa: Hexacorallia). *Zoolog. Sci.* **24**: 346-59.
- Takishita, K., Fujiwara, Y., Kawato, M., Kakizoe, N., Miyazaki, M., **Maruyama, T.**, 2007. 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.
- Hirayama, H., Sunamura, M., Takai, K., Nunoura, T., Noguchi, T., Oida, H., Furushima, Y., **Yamamoto, H.**, Oomori, T., Horikoshi, K., 2007. Culture-dependent and-independent characterization of 1 microbial communities associated with a shallow submarine hydrothermal system occurring within a coral reef off Taketomi Island, Japan. *Appl. Environment. Microbiol.* **73**: 7642-7656
- Fujikura, K., Amaki, K., Barry, J. P., Fujiwara, Y., Furushima, Y., Iwase, R., **Yamamoto, H.**, **Maruyama, T.**, 2007. Long-term in situ monitoring of spawning behavior and fecundity in *Calymptogena* spp. *Mar. Ecol. Prog. Ser.* **333**: 185-193.
- 山本啓之. 2007. 「地球生態系における光合成微生物群集の役割」. 光合成微生物の機能と応用 (上原 赫監修) シーエムシー出版, 東京: 72-80.
- 湯浅一郎・星加 章・杉戸俊一・植村泰治. 2007. 大阪湾奥部の海岸構造物 (垂直護岸) における付着生物相. 第6回海環境と生物および沿岸環境の修復技術に関するシンポジウム論文集. 19-24.
- 湯浅一郎. 2007. 瀬戸内海の小動物, その変遷21, 複雑な動物相を示す吉海湾 (今治市). *瀬戸内海.* **49**: 67-68.

- 湯浅一郎. 2007. 瀬戸内海の小動物, その変遷22, カシパン類・ウミウシもいる須磨海岸 (神戸市). 瀬戸内海. **50**: 60-61.
- 湯浅一郎. 2007. 瀬戸内海の小動物, その変遷23, 対象地点の鹿島でも種数は半減 (呉市鹿島). 瀬戸内海. **51**: 74-75.
- 山内 稔. 2007. 水稻の鉄コーティング湛水直播-種子の大量製造技術の開発と播種のポイント. グリーンレポート. **459**: 5-7.
- 山内 稔. 2007. 鉄コーティング種子の大量製造技術を開発 スズメの食害を防ぎ、省力化も図れる. 農業経営者. **139**: 68.
- 山内 稔. 2007. 鉄コーティング直播技術の展開方向と普及への残された課題. 季刊肥料. **108**: 65-70.
- 山内 稔. 2007. 鉄コーティング種子の直播栽培, 技術の特色と概要. 米麦改良. **11**: 7-13.