

List of scientific papers in 2007 published by field science group in Graduate School of Agricultural Science, Tohoku University

The Forest – Andisols Group

- Garrido, S. M., C. K. Morikawa, H. Heinai and M. Saigusa (2007) Effect of FeAgri, a novel iron-containing material, on the growth of dicotyledonous crops grown on river sand, *Journal of Integrated Field Science*, 4: 87-92.
- Hayashi, T., T. Kida, M. Nanzyo, T. Takahashi, M. Honna, Y. Aikawa and K. Yoshihara (2007) Persistence of CaCl_2 washing effect for amelioration of a Cd-contaminated paddy field soil. *Soil Science and Plant Nutrition.*, 53(6): 720-728; Corrigendum, *Soil Science and Plant Nutrition*, 54(1): 176 (2008)
- Ito, T. (2007) Andosols. In: *We love soils and protect soils* (Ed. Japanese Society of Pedology), Hakuyusha, Tokyo, 61-64 (in Japanese).
- Ito, T. (2007) Andosols in Kawatabi Experimental Farm. In: *We love soils and protect soils* (Ed. Japanese Society of Pedology), Hakuyusha, Tokyo, 129-131 (in Japanese).
- Kakisaka, Y., H. Kanno, M. Nanzyo and K. Watanabe (2007) Effect of pre-transplanting P application on sweet corn (*Zea mays* L.) growth in a nonallphanic Andosol. *Japanese Journal of Soil Science and Plant Nutrition*, 78(4): 395-398 (in Japanese).
- Kaneta, Y. and T. Takahashi (2007) Fertility of soils in Ohgata Village. In: *Challenge to new paddy farming* (Supervising Ed. S. Shoji) 91-103, Rural Culture Association, Tokyo (in Japanese).
- Matsuki, Y., Y. Isagi and Y. Suyama (2007) The determination of multiple microsatellite genotypes and DNA sequences from a single pollen grain. *Molecular Ecology Notes*, 7 (2): 194-198.
- Nanzyo, M. (2007) Introduction to studies on volcanic ash soils in Japan and international collaboration. *Journal of Integrated Field Science*, 4: 71-77.
- Nanzyo, M. (2007) Report from the introductory seminar "Relationship between soil and human". CAHE J. Higher Edu. Tohoku University 2:165-170 (in Japanese).
- Nanzyo, M. and H. Kanno (2007) Weathering of Numazawa tephra in Aizu Basin. In: *We love soils and protect soils* (Ed. Japanese Society of Pedology), 131-132, Hakuyusha, Tokyo (in Japanese).
- Nanzyo, M., T. Takahashi and H. Kanno (2007) Recent trends in the nutrient status of the paddy field soil in Japan and related topics. *Journal of Integrated Field Science*, 4: 59-64.
- Nanzyo, M., S. Yamasaki, T. Honna, I. Yamada, S. Shoji and T. Takahashi (2007) Changes in element concentrations during Andosol formation on tephra in Japan. *European Journal of Soil Science*, 58(2): 465-477.
- Sato, A., Y. Kaneta, T. Sato, T. Takahashi and T. Ohta (2007) Soil formation process in Hachirogata reclaimed land and improvement of soils by agricultural methods. In: *We love soils and protect soils* (Ed. Japanese Society of Pedology), 135-137, Hakuyusha, Tokyo (in Japanese).
- Seiwa, K. (2007) Trade-offs between seedling growth and survival in deciduous broadleaved trees in a temperate forest. *Annals of Botany*, 99 (3): 537-544.
- Shimatani, K., M. Kimura, K. Kitamura, Y. Suyama, Y. Isagi and H. Sugita (2007) Determining the location of a deceased mother tree and estimating forest regeneration variables by use of micro-satellites and spatial genetic models. *Population Ecology*, 49 (4): 317-330.
- Takahashi, T. (2007) Various soils derived from volcanic ejecta of Towada volcano. In: *We love soils and protect soils* (Ed. Japanese Society of Pedology), 117-119, Hakuyusha, Tokyo (in Japanese).
- Takahashi, T. (2007) Podzolic soils under *Thujopsis dolabrata* forest in Shimokita Peninsula. In: *We love soils and protect soils* (Ed. Japanese Society of Pedology), 119-120, Hakuyusha, Tokyo (in Japanese).
- Takahashi, T., T. Sato and A. Sato (2007) Soils under *Fagus crenata* forest in Shirakami-Sanchi (Mts. Shirakami). In: *We love soils and protect soils* (Ed. Japanese Society of Pedology), 120-123, Hakuyusha, Tokyo (in Japanese).
- Takahashi, T., M. Nanzyo and S. Hiradate (2007) Aluminum status of synthetic Al-humic substance complexes and their influence on plant root growth. *Soil Science and Plant Nutrition*, 53(2):115-124.

Ueno, N., Y. Suyama and K. Seiwa (2007) What makes the sex ratio female-biased in the dioecious tree *Salix sachalinensis*? *Journal of Ecology*, 95 (5): 951-959.

The Ruminant Production Group

Asano, R., T. Sasaki, Y. Nakai (2007) Analysis of sulfur-oxidizing bacteria in livestock compost. *Animal Science Journal*, 78(3): 330-333.

Aso, H. (2007) Serotonin Plays a Principal Role in Bovine Adipogenesis. In: International Symposium of BK21 Globalization of Regional Biotechnology Human Resources, in Chonnan National University, Gwangju on November 20.

Hirata, M., Y. Nagakura, N. Yuki, K. Adachi, R. Fujii, T. Koyakumaru, S. Ogura, H. Moritake, C. Watanabe and K. Fukuyama (2007) Development and establishment of centipede grass (*Eremochloa ophiuroides*) in south-western Japan. *Tropical Grasslands*, 41: 100-112.

Hirata, M., S. Ogura, H. Hasegawa and D. Mačević (2007) Effect of herbage mass on the selection and use by cattle of fine-scale locations in a progressively grazed tropical grass pasture. *Grassland Science*, 53: 226-239.

Honma H., T. Yokoyama, M. Inoue, A. Uebayashi, F. Matsumoto, Y. Watanabe, Y. Nakai (2007) Genetic identification of coccidia in red-crowned crane, *Grus japonensis*. *Parasitology Research*, 100 (3): 637-640.

Hoque, M. A., K. Suzuki, H. Kadowaki, T. Shibata and T. Oikawa (2007) Genetic parameters for feed efficiency traits and their relationships with growth and carcass traits in Duroc pigs. *Journal of Animal Breeding and Genetics*, x 124, 108-116.

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Hoque, M. A., K. Suzuki and T. Oikawa (2007) Estimation of Genetic Gain on Growth and Carcass Traits over Direct and Index Selection for Growth and Feed Efficiency of Japanese Black Cattle by computer simulation. *Tohoku Journal of Agricultural Research*, 58(1-2): 31-41.

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traits in pigs. The 58th annual meeting of the European Association for Animal Production, Book of abstract No.13, 66. No. 13, 66.

Hoque, M. A., K. Suzuki, H. Kadowaki and T. Shibata (2007) Genetic variation in measures of feed efficiency and their relationships with carcass traits in Duroc pigs. The 58th annual meeting of the European Association for Animal Production, Book of abstract No.13, 67.

Kanaya, T., H. Aso, K. Miyazawa, T. Kido, K. Watanabe, S. Ohwada, H. Kitazawa, M. T. Rose and T. Yamaguchi (2007) Staining patterns for actin and villin distinguish M cells in bovine follicle-associated epithelium. *Research in Veterinary Science*, 82: 141-149.

Kanaya, T., K. Miyazawa, I. Takakura I., W. Itani, Y. Akiyama, K. Watanabe, S. Ohwada, T. Yamaguchi and H. Aso (2007) Differentiation of a murine intestinal epithelial cell line (MIE) into M Cells. 47th Annual Meeting, The American Society for Cell Biology. [Washington DC, U.S.A.]

Kanaya, T., K. Miyazawa, I. Takakura, W. Itani, K. Watanabe, S. Ohwada, T. Yamaguchi and H. Aso (2007) An established murine intestinal epithelial cell line (MIE) differentiates into M cells. in 13th International Congress of Mucosal Immunology (ICMI)

Katoh, K., T. Takahashi, Y. Kobayashi and Y. Obara (2007) Somatotropic axis and nutrition in young ruminants around weaning time. *Asian-Australian Journal of Animal Science*, 20: 1156-1168.

Miyazawa, K., T. Kanaya, S. Tanaka, I. Takakura, K. Watanabe, S. Ohwada, H. Kitazawa, M. T. Rose, S. Sakaguchi, S. Katamine, T. Yamaguchi and H. Aso (2007) Immunohistochemical characterization of cell types expressing the cellular prion protein in the small intestine of cattle and mice. *Histochemistry and Cell Biology*, 127: 291-301.

Miyake, M., H. Shinichiro, Y. Taketa, K. Watanabe, S. Hayashi, T. Sato, S. Ohwada, H. Aso and T. Yamaguchi (2007) Myostatin and MyoD family expression in skeletal muscle of IGF-1 knockout mice. *Cell Biology International*, 31: 1274-1279.

Miyake, M., S. Hayashi, Y. Imai, K. Watanabe, S. Ohwada, H. Aso and T. Yamaguchi (2007) MSTN regulates IGF-2 but not IGF-1 expression during myogenesis of cattle. In the 2007 Joint Annual Meeting of the American Dairy Science Association (ADSA), Poultry Science Association (PSA),

- Asociación Mexicana de Producción Animal (AMPA), and the American Society of Animal Science (ASAS).
- Nagai, Y., H. Aso, H. Ogasawara, S. Tanaka, K. Watanabe, S. Ohwada and T. Yamaguchi (2007) Characters and functions of anterior pituitary progenitor cells that are identified by a novel monoclonal antibody. In the 2007 Joint Annual Meeting of the American Dairy Science Association (ADSA), Poultry Science Association (PSA), Asociación Mexicana de Producción Animal (AMPA), and the American Society of Animal Science (ASAS).
- Nguyen S. T., D. T. Nguyen, D. Q. Le, L. N. L. Hua, T. V. Nguyen, H. Honma and Y. Nakai (2007) Prevalence and first genetic identification of *Cryptosporidium* spp. in cattle in central Viet Nam. *Veterinary Parasitology*, 150 (4): 357-361.
- Ninomiya, S. (2007) Social leaning and stereotypy in horses. *Behavioural Processes*, 76: 22-23.
- Ninomiya, S., T. Mitsumasa, M. Aoyama and R. Kusunose (2007) A note on the effect of a palatable food reward on operant conditioning in horses. *Applied Animal Behaviour Science* 108: 342-347.
- Ninomiya, S., S. Sato and K. Sugawara (2007) Weaving in stabled horses and its relationship to other behavioural traits. *Applied Animal Behaviour Science*, 106: 134-143.
- Ninomiya, S., S. Sato, R. Kusunose, T. Mitumasa and Y. Obara (2007) A note on a behavioural indicator of satisfaction in stabled horses. *Applied Animal Behaviour Science*, 106: 184-189.
- Ninomiya, S., N. Kaneda, N. Abe and S. Sato (2007) The aversive effect of wolf's feces on Sika deer (*Cervus nippon*). *Proceedings of the 41st International Congress of the ISAE*, 222.
- Ninomiya, S. (2007) Behavioural indicators of frustration and behavioural satisfaction, and the animal welfare assessment by them in stabled horses. *Animal Behaviour and Management*, 43(2): 126-129 (in Japanese).
- Nishiwaki, A., R. Yusa, H. Karino, M. Odajima and Y. Yashima (2007) Some renovation methods of low productive pasture. 2. The effect of herbicide and disk harrow on renovation of *Anthoxanthum odoratum* dominant pasture. *Bulletine of Integrated Field Science Center*, 23:5-9 (in Japanese).
- Obara, M., S. Ogura and S. Sato (2007) Dispersal of plant seeds through defecation of herbivorous animals. *Tohoku Journal of Animal Science and Technology*, 57 (1): 1-6 (in Japanese).
- Ogura, S. and S. Sato (2007) Effects of grazing use of mulberry plantation on beef cattle. (In Grazing of beef cattle in wasted mulberry plantation: the manual of transferable grazing system by using solar electric fence. Eds. by Agriculture and Forestry Promotion Division, Miyagi Prefectural Government Kesennuma Regional Promotion Office and Minamisanriku Agricultural Cooperative, 12-13 (in Japanese).
- Onodera, W., T. Kachi, H. Kadowaki, C. Kojima, E. Suzuki and K. Suzuki (2007) Genetic parameters for chronic respiratory diseases and immune traits in Landrace pigs. The 58th annual meeting of the European Association for Animal Production, Book of abstract No.13, 87.
- Roh, S.-G., Y.-H. Hong, K.-C. Choi, H. Tsuzuki, H. Miyahara, C. Gotoh, T. Iga, Y. Suzuki, S.-H. Song, K. Katoh, V. Wittamer, M. Parmentier and S. Sasaki (2007) Chemerin - a new adipokine that regulates adipogenesis and lipolysis via its own receptor. *Biochemical and Biophysical Research Communications*, 362: 1013-1018.
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- Sato, S. (2007) Human's behaviour towards cattle would change tractability and productivity in dairy cows. *Dairy Japan*, 52(3): 14-17(in Japanese).
- Satoh M., Y. Nakai (2007) Discrimination of *Cryptosporidium* species by denaturing gradient gel electrophoresis. *Parasitology Research*, 101(2): 463-466.
- Sato, S. (2007) Consequence of the animal welfare movement in Japanese pig production. *Pig Journal*, 10(2): 38-39 (in Japanese).
- Sato, S. (2007) Certifying rearing system of cattle. *Beef Cattle*, 8: 2-5 (in Japanese).
- Seo, T., K. Date, T. Daigo, F. Kashiwamura and S. Sato (2007) Welfare assessment on Japanese dairy

- farms using the Animal Needs Index. *Animal Welfare*, 16: 221-223.
- Shingu, H., H. Hayashi, E. Touno, A. Oshibe, S. Kushibiki, S. Oda, K. Katoh and Y. Obara (2007) Characteristics of developmental changes in the kinetics of glucose and urea in Japanese Black calves: Comparison with their kinetics in Holstein calves. *Journal of Animal Science*, 85: 2910-2915.
- Shimazu, T., M. Tohno, S. Katoh, T. Shimosato, H. Aso, Y. Kawai, T. Saito and H. Kitazawa (2007) Preferential expression of lymphotoxin-Beta by immunobiotics in GALTs of neonatal swine. In 13th International Congress of Mucosal Immunology (ICMI).
- Suzuki, K. (2007) Breeding for disease resistance using genomic information in pigs. *Techno Innovation*, 63: 35-40.
- Suzuki, K., Y. Kumagai, W. Onodera, Y. Shimizu, Y. Suda and J. Kobayashi (2007) Effect of supplement of marine algae, Beta-glucan, yeast on immunity traits of growing pigs. The 58th annual meeting of the European Association for Animal Production, Book of abstract No.13, 354.
- Takahashi, T., S. Ogura and K. Sugawara (2007) Vertical distribution of available foliage and the selectivity of grazing heights by cattle in native grasses. *Japanese Journal of Grassland Science*, 53 (1): 1-5 (in Japanese with English abstract).
- Takeda, K., H. Kondo, K. Shimizu, S. Sato and S. Takahashi (2007) Behavioural approach of oestrous beef cows toward a bull on a pasture. *Proceedings of the 41st International Congress of the ISAE*, 174.
- Tanaka, S., H. Aso, K. Miyazawa, Y. Nagai, K. Watanabe, S. Ohwada, J. Kobayashi and T. Yamaguchi (2007) Differential cytokine gene expression in CD4⁺ and CD8⁺ T cell subsets of calves. *Veterinary Immunology and Immunopathology*, 118: 84-91.
- Tanaka, S., S. Hayashi, Y. Taketa, M. Miyake, K. Watanabe, S. Ohwada, H. Aso and T. Yamaguchi (2007) Comparative expression of activin receptor type IIB in bovine peripheral blood mononuclear cells. In the 2007 Joint Annual Meeting of the American Dairy Science Association (ADSA), Poultry Science Association (PSA), Asociación Mexicana de Producción Animal (AMPA), and the American Society of Animal Science (ASAS).
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- Tanaka M., Y. Kamiya, M. Kamiya, S. Shioya and Y. Nakai (2007) Anti-radical function of sulfhydryl residues and oxidative stress markers in dairy cattle plasma. *Animal Science Journal*, 78(1): 61-65.
- Tohno, M., T., Shimazu, W. Ueda, D. Anzawa, H. Aso, J. Nishimura, Y. Kawai, Y. Saito, T. Saito and H. Kitazawa (2007) Molecular cloning of porcine RP105/MD-1 involved in recognition of extracellular phosphopolysaccharides from *Lactococcus lactis* ssp. cremoris. *Molecular Immunology*, 44 (10): 2566-2577.
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- Uemoto, Y., K. Suzuki, E. Kobayashi, S. Sato, T. Shibata, H. Kadowaki and A. Nishida (2007) Effects of Heart Fatty Acid-binding Protein Genotype on Intramuscular Fat Content in Duroc Pigs Selected for Meat Production and Meat Quality Traits. *Asian-Australian Journal of Animal Science*, 20 (5) : 622-626.
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- the growth and phosphorus uptake of rice plant (*Oryza sativa* L.). *Japanese Journal of Soil Science and Plant Nutrition*, 78: 157-162 (in Japanese with English summary).
- Ito, T. (2007) Expectation to Field Soil Science on paddy field rich in biodiversity. *Kagaku*, 77 (6): 594-595 (in Japanese).
- Ito, T., T. Kon, H. Watanabe, K. Suzuki and M. Saigusa (2007) Characteristics of winter flooded no-tillage paddy soils with organic farming. In *Nougyo Gijutu Taikai* (Soil and Fertilization), 5 (2), additional section 66 (Paddy Field), 12-17 (in Japanese).
- Sano, O. and M. Saigusa (2007) Characteristics of paddy soils in Northeastern Japan. In: *We love soils and protect soils* (Ed. Japanese Society of Pedology), Hakuyu-Sha, Tokyo, 133-135 (in Japanese).
- Watanabe, H., S. Hase and M. Saigusa (2007) Synergistic actions of ethylene with gibberellin in the growth of rice. *Advances in Plant Ethylene Research*. Ramina, A. et al. eds., *Proceedings of the 7th International Symposium on the Plant Hormone Ethylene*. Springer, Dordrecht 445-447.
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- Watanabe, K., T. Niino, T. Murayama and M. Nanzyo (2007) Promotive effect of pre-transplanting phosphorus application on the early growth of rice. *Japanese Journal of Crop Science*, 76(2): 181-188 (in Japanese with English abstract).

The Rice Production Group

- Horikawa, T., T. Ito, T. Hasegawa, Y. Masuda, T. Arai and M. Saigusa (2007) Properties of polysilicate-iron (PSI) sludge from water purification plants, its effects on rice growth and methane emission. *Japanese Journal of Soil Science and Plant Nutrition*, 78: 261-267 (in Japanese with English summary).
- Heinai, H., M. Saigusa, K. Sato and N. Harada (2007) Effect of phosphorus-medium used to the single application of fertilizer in nursery box on

Marine Bio-Production Group

- Li, Q. and A. Kijima (2007) Sequences Characterization of Microsatellite DNA Sequences in Pacific Abalone (*Haliotis discus hannai*). *Journal of Ocean University of China* (Oceanic and Coastal Sea Research), 6(1): 47-52.
- Nakamura, S., M. Osada and A. Kijima (2007) Involvement of GnRH neuron in the spermatogonial proliferation of the scallop, *Patinopecten yessoensis*.

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Integrated Field Control Group

Imai, K., D. Kunii, G. Saito and S. Ogawa (2007) Extraction of The ancient Amazon civilization using TERRA/ASTER data. Proceedings of the 28th Asian Conference on Remote Sensing, CD-Rom.

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