

List of scientific papers in 2005 published by field science group in Graduate School of Agricultural Science, Tohoku University

The Forest -Andisols Group

- Bacatio, C. D., H. Kubotera, M. Nanzyo and I. Yamada (2005) Partial rejuvenation of the soil in Intavas Techno Demo Farm, Bukidnon, Mindanao, Philippines by volcanic ash material. *J. Integrated. Field Sci.*, 2 : 19-28.
- Ito, T. (2005) Supply of nutrients and water to crops in upland soils. In *Introductions to Soil Science* (ed. Saigusa, M. and M. Kimura), Buneido, Tokyo, pp.51-62 (Book, in Japanese)
- Ito, T., N. Kikawa and M. Saigusa (2005) A Phosphorus Dynamics and Bioavailability in Andosols - Estimation of Potential Bioavailable P Transport in Agricultural Runoff of Andosols, *Journal of Integrated Field Science (JIFS)*, 2 : 73-76.
- Kanno, H., T. Miyamoto and M. Nanzyo (2005) Morphological and selected chemical characteristics of tephra-derived soils in Changbai volcano area, North China. *J. Integrated. Field Sci.*, 2 : 13-18.
- Kanno, H. and K. Seiwa (2004) Sexual vs. vegetative reproduction in relation to forest dynamics in the understorey shrub, *Hydrangea paniculata* (Saxifragaceae). *Plant Ecology*. 170 : 43-53.
- Kanno, M., J. Yokoyama, Y. Suyama, M. Ohshima, T. Itoh and M. Suzuki (2004) Geographical distribution of two haplotypes of chloroplast DNA in four oak species (*Quercus*) in Japan. *Journal of Plant Research*. 117 : 311-317.
- Matsumori, K., M. Saigusa and T. Ito (2005) Biennial weed control for no-tillage cultivation of glyphosate-resistant soybean, *Tohoku Weed J.*, 5 : 13-19 (In Japanese)
- Matsuyama N., M. Saigusa, E. Sakaiya, K. Tamakawa, Z. Oyamada, K. Kudo (2005) Acidification and soil productivity of allophonic andosols affected by heavy application of fertilizers. *Soil Sci. Plant Nutr.* 51 (1) : 117-123
- Matsuyama, N., M. Saigusa and K. Kudo (2005) Distribution of Strongly Acidic Non-Andosols in Japan Based on the Data in Soil Survey Reports on Reclaimed Land, *Pedologist*, 49 (1) : 33-37 (In Japanese)
- Naito, Y., A. Konuma, H. Iwata, Y. Suyama, K. Seiwa, T. Okuda, S.-L. Lee, N. Muhammad and Y. Tsumura (2005) Mating system and inbreeding depression in the early regeneration stages of *Neobalanocarpus heimii* (Dipterocarpaceae). *Journal of Plant Research*. 118 : 423-430.
- Nakai, M., M. Nanzyo, N. Imai, Y. Seki, K. Tazaki, Y. Sakurai, K. Togami, A. Takeda (2005) Behavior of heavy metals on the process of pedogenesis. *Jpn. J. Soil Sci. Plant Nutr.*, 76 : 539-545. (In Japanese)
- Nanzyo, M. (2005) Unique properties of volcanic ash soils and perspectives on their applications. *J. Integrated. Field Sci.*, 2 : 1-4.
- Nanzyo, M. (2005) Changes in elemental composition with andosolization. *J. Integrated. Field Sci.*, 2 : 83-87.
- Nanzyo, M. (2005) Soil inorganic components. *Jpn. J. Soil Sci. Plant Nutr.*, 76 : 701-705. (In Japanese)
- Nanzyo M. and K. Yamada (2005) Changes in chemical properties and water-percolation of soils overlaid with cattle manure compost. *J. Jpn. Soc. Soil Physics*, 99 : 45-54. (In Japanese)
- Ombodi, A. and M. Saigusa (2005) Band versus Nursery Pot Application of Polyolefin-coated fertilizer for Bell Peppers Grown in the Field, *Journal of Integrated Field Science (JIFS)*, 2 : 107-112
- Parducci, L., Y. Suyama, M. Lascoux and K. D. Bennett (2005) Ancient DNA from pollen : a genetic record of population history in Scots pine. *Molecular Ecology*. 14 : 2873-2882.
- Prokaj, E., H. Watanabe, Y. Suyama and M. Saigusa (2004) Identification of rabbiteye blueberry cultivars (*Vaccinium ashei* Reade) and analysis of genetic relationships using amplified fragment length polymorphism (AFLP). *International Journal of Horticultural Science*. 10 : 27-30.
- Saigusa, M. (2005) Integrated field science and its example in Graduate School of Agricultural science Center, Tohoku University, *Journal of Agricultural Science*, 60 : 32-36 (Review, in Japanese)
- Saigusa, M. (2005) Fertility of alluvial soils. In *Introductions to Soil Science* (ed. Saigusa, M. and M. Kimura), Buneido, Tokyo, pp.107-118 (Book, in Japanese)
- Saito, K., Y. Suyama, S. Sato and K. Sugawara (2004) Defoliation effects on the community structure of arbuscular mycorrhizal fungi based on 18S rDNA

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- Tomita, M. and K. Seiwa (2004) Influence of canopy tree phenology on understorey populations of *Fagus crenata*. *Journal of Vegetation Science*. 15 : 379-388.
- Watanabe, K., T. Murayama, T. Niino, T. Nitta and M. Nanzyo (2005) Reduction of phosphatic and potash fertilizer in sweet corn production by pre-transplanting application of potassium phosphate to plug seedlings, *Plant Prod. Sci.*, 8 : 608-616.

The Ruminant Production Group

- Abe, N., H. Takazaki, S. Sato and K. Sugawara (2005) Behavioural sequence of mock- fighting to the handler in beef cattle. *Proceedings of the 39th International Congress of the ISAE*, pp.139.
- Aso, H., T. Yamasaki, K. Tahara, S. Takano, M. Inoue-Murayama, T. Minashima and S. Ito (2005) Production mechanisms of plasma glutathione peroxidase from bovine adipocyte. In 45th Annual Meeting of the American Society for Cell Biology.
- Aso, H., K. Tahara, T. Yamasaki, T. Minashima, M. Sanosaka, K. Miyazawa, S. Hayashi, T. Kanaya, K. Watanabe, S. Ohwada and T. Yamaguchi (2005) The winding road to candidate genes for marbling. Joint meeting of 2nd IS-AS and 3rd IS-IFS In the Abstracts of the International Symposium on Recent Advances in Animal Science, pp.20.
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- Kanaya, T., H. Aso, K. Miyazawa, T. Minashima, T. Kido, K. Tahara, T. Yamasaki, K. Watanabe, S. Ohwada and T. Yamaguchi (2005) The Characteristics of an Established Clonal Murine Intestinal Epitheliocyte (MIE) . In 45th Annual Meeting of the American Society for Cell Biology.
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- Katoh, K., M. Yoshida, Y. Kobayashi, M. Onodera, K. Kogusa and Y. Obara (2005) Responses induced by arginine-vasopressin injection in the plasma concentrations of adrenocorticotrophic hormone, cortisol, growth hormone, and metabolites around weaning time in goats. *Journal of Endocrinology* (in press)
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- Mohamoud A.-A., S. Nishida, K. Suzuki and A. Nishida (2005) Estimation of direct and maternal genetic parameters for growth and carcass traits in a herd of Japanese Black cattle in Miyagi prefecture, using a multi-trait animal model. Animal Science J., 76 : 187-193.
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The rice Production Groups

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Marine Bio-production Group

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