

List of scientific papers in 2014 published by field science group in Graduate School of Agricultural Science, Tohoku University

The forest-Andisols Group

- Tomimatsu, H., K. Nakano, N. Yamamoto and Y. Suyama (2014) Effects of genotypic diversity of *Phragmites australis* on primary productivity and water quality in an experimental wetland. *Oecologia*, 175 (1): 163-172.
- Källman, T., S. D. Mita, H. Larsson, N. Gyllenstrand, M. Heuertz, L. Parducci, Y. Suyama, U. Lagercrantz and M. Lascoux (2014) Patterns of nucleotide diversity at photoperiod related genes in Norway Spruce [*Picea abies* (L.) Karst]. *PLoS ONE*, 9 (5): e95306.
- Inoue, M., A. Sato, A. Matsuo, Y. Suyama, J. Suzuki and A. Makita (2014) Clonal structure, seed set, and self-pollination rate in mass-flowering bamboo species during off-year flowering events. *PLoS ONE*, 9 (8): e105051.
- Matsuo, A., H. Tomimatsu, J. Suzuki, A. Makita and Y. Suyama (2014) Female and male fitness consequences of clonal growth in a dwarf bamboo population with a high degree of clonal intermingling. *Annals of Botany*, 114 (5): 1035-1041.
- Lee, J. H., D. H. Lee, H. J. Choi, Y. Suyama, T. Kondo, Y. Isagi and B. H. Choi (2014) The distribution and population status of *Quercus myrsinifolia* (Fagaceae) on the Korean peninsula. *Korean Journal of Plant Taxonomy*, 44 (3): 165-170.
- Suyama, Y. (2014) Geographical genetic structure of Japanese forest trees: *Abies mariesii* (Pinaceae, Abies). *Forest Genetics and Tree Breeding*, 3 (4): 173-178.
- Iwasaki, T., S. Sakaguchi, R. Yokoyama, Y. Takami, T. Osawa, H. Ikeda and Y. Suyama (2014) Fundamentals and applications of geographic information system in biogeography and its related fields. *Japanese Journal of Ecology*, 64 (3):183-199 (in Japanese).
- Morinaga, S., T. Iwasaki and Y. Suyama (2014) Evolutionary genomic observation for local and global environmental changes. In: *Integrative Observations and Assessments*, Ecological Research Monographs, S. Nakano et al. (Eds.), pp. 327-337, p.431, Springer, Tokyo.
- Sagara, N. and Y. Fukasawa (2014) Inhabitant changes in long-term mole nesting at the same site, revealed by observing mushroom fruiting at the site. *Mammalia*, 78 (3): 383-391.
- Fukasawa, Y., S. Katsumata, A. S. Mori, T. Osono and H. Takeda (2014) Accumulation and decay dynamics of coarse woody debris in a Japanese old-growth subalpine coniferous forest. *Ecological Research*, 29 (2): 257-269.
- Takahashi, T. and Y. Shirato (2014) Past and present of the tsunami disaster in Miyagi Prefecture: Mainly about soils in Sendai Plain. *Pedologist*, 58:30-31 (in Japanese).
- Takahashi, T., H. Kanno and M. Nanzyo (2014) Factors affecting organic carbon accumulation in humus horizons of Andosols from the Tohoku University World Andosol Database. Abstracts of 11th International Symposium of Integrated Field Science "Utilization of resources and environmental protection", *Journal of Integrated Field Science*, vol. 11: 63.
- Takahashi, T. (2014) Significance of aluminum-humus complexes in Andosols. *Proceedings of 20th World Congress of Soil Science*, P1-295 (CD-ROM).
- Dahlgren, R. and T. Takahashi (2014) Soil genesis and mineralogy in volcanic materials in the Mediterranean climate of California, USA. *Proceedings of 20th World Congress of Soil Science*, P1-300 (CD-ROM).
- Yong, H., Z. Zou, E. P. Kok, B. H. Kwan, K. Chow, S. Nasu, M. Nanzyo, H. Kitashiba and T. Nishio (2014) Comparative transcriptome analysis of leaves and roots in response to sudden increase in salinity in *Brassica napus* by RNA-seq. *BioMed Research International*: ID 467395, <http://dx.doi.org/10.1155/2014/467395>
- Nishiue, A., M. Nanzyo, M., H. Kanno and T. Takahashi (2014) Properties and classification of volcanic ash soils around Lake Kuwanuma on the eastern footslope of Mt. Funagata in Miyagi prefecture, northeastern Japan. *Soil Science and Plant Nutrition*, 60: 848-862.
- Nanzyo, M., H. Kanno and A. Takeda (2014) Vertical distribution of radiocesium in side bar deposits of the Utsushi and Agano rivers, Japan. *Clay Science*,

- 18 (2): 43-52.
- Funamoto, R., K. Saito, H. Oyaizu, T. Aono and M. Saito (2014) pH measurement of tubular vacuoles of an arbuscular mycorrhizal fungus, *Gigaspora margarita*. *Mycorrhiza*: DOI 10.1007/s00572-014-0588-1
- Hara, S., T. Shimizu, T. Uno, R. Tajima, T. Ito and M. Saito (2014) Phosphorous Uptake via Am Fungi from Phytate in Organic Matter: Possible Involvement of Phytate Degrading Bacteria. *Proceedings of 20th World Congress of Soil Science*, p.400.
- Hoshino, T., T. Uno, R. Tajima, T. Ito and M. Saito (2014) Vertical Distribution of Radiocesium in Pasture Soils after Pasture Renovation. *Proceedings of 12th International Symposium of Integrated Field Science*, p.54.
- Matsuoka, C., T. Uno, R. Tajima, T. Ito and M. Saito (2014) Temperature Dependency of Soil Nitrogen Mineralization in an Andosol is affected by Phosphate Availability. *Proceedings of 20th World Congress of Soil Science*, p.478.
- Saito, M. (2014) Hidden facilitator in soil: Role of arbuscular mycorrhizal fungi. The 6th EAFES International Congress, Invited key note presentation in “Microbial Ecology in relation to soil-plant interactions”.
- Saito, M. (2014) Ecology and Function of Arbuscular Mycorrhiza. *PSJ Plant-Microbe Interactions Symposium Report*, 49 : 39-43.
- The Ruminant Production Group***
- Ariga, S., S. Tanaka, T. Chiba, K. Shibuya and S. Sato (2014) Identified exciting factors of soil on behaviour of fattening steers reared indoor. *Proceedings of the 48th Congress of the International Society for Applied Ethology*, p.266.
- Chen, S., S.Tanaka, S.Roh, and S. Sato (2014) Factors affecting oxytocin concentration and relationship between oxytocin concentration and affiliative bahavior. *Proceedings of the 48th International Congress of the International Society for Applied Ethology*, p.137.
- Koyama, A., Y. Yoshihara, U. Jamsran and T. Okuro (2014) The role of grazing refuge for palatable plants by grazed neighboring tussocks associated with tussock morphology in a semi-arid Mongolian rangeland. *Plant Ecology & Diversity* (in press): DOI 10.1080/17550874.2014.926406
- Mizuno, H., M. Nakano, M. Tohno, K. Kimura and S. Ogura (2014) Rumen conditions of cattle and sheep grazed in pastures with different plant species richness. *Knowledge Innovation of Grassland Science and Sustainable Development of Grassland Agriculture, Proceedings of the 5th Japan-China-Korea Grassland Congress*, p. 207.
- Fujita, Y., Y. Yoshihara, I. Sato and S. Sato (2014) Environmental radioactivity damages the DNA of earthworms of Fukushima Prefecture, Japan. *European Journal of Wildlife Research*, 60: 145-148.
- Ogura, S., T. Suzuki and M. Saito (2014) Distribution of radioactive cesium in soil and its uptake by herbaceous plants in temperate pastures with different management after Fukushima accident. *Soil Science Plant Nutrition*, 60 (6), 790-800.
- Ogura, S., T. Suzuki and M. Saito (2014) Distribution of radioactive cesium in soil and its uptake by herbaceous plants in temperate pastures with different management after Fukushima Dai-Ichi Nuclear Power Plant accident. *Proceedings of the 20th World Congress of Soil Science (20WCSS)*, pp. O4-6.
- Ohara, A., M. Nishi, S. Tomita, S. Nobuoka and S. Sato (2014) The effects of unhusked rice feeding on behavior and quality of feces in broilers: *Proceedings of the 48th Congress of the International Society for Applied Ethology*, p.297.
- Sato, S. (2014) General attitude towards animals in Japan. *Proceedings of 2014 International Conference on “Animal Liberation, Animal Rights, and Equal Ecological Rights: Dialogues between Eastern and Western Philosophies and Religions”*, pp. 377-391. (invited)
- Sato, I., K. Okada, J. Sasaki, H. Chida, H. Satoh, K. Miura, K. Kikuchi, K. Otani, and S. Sato (2014) Distribution of radioactive cesium and stable cesium in cattle kept on highly contaminated area of Fukushima nuclear accident. *Animal Science Journal*, vol.86, (1) (in press): DOI 10.1111/asj.12345
- Sato, S. and A. Ohara (2014) Recent trends of policy and research relating poultry welfare in Japan. *Abstracts of 10th Asia Pacific Poultry Conference*, p. 223. (invited)
- Tachi, N., S. Tanaka, A. Ardiyanti, K. Katoh and S. Sato (2014) Bovine growth hormone gene polymorphism affects stress response in Japanese Black cattle. *Animal Science Journal*, 85(6): 722-

728.

- Tanaka, S., S. Ogura, A. Ohar and S. Sato (2014) Effect of rooting behavior of pigs on removal of blacken fern (*Pteridium aquilinum*) and early establishment of a sown grass. *Tohoku Journal of Animal Science and Technology*, 63 (3): 30-37 (in Japanese).
- Tozawa, A., S. Tanaka and S. Sato (2014) Case study: the effects of the constituent factors of grazing system on welfare of fattening pigs. *Proceedings of 48th Congress of the International Society for Applied Ethology*, p.278.
- Yoshihara, Y., M. Okada, T. Sasaki and S. Sato (2014) Plant species diversity and forage quality as affected by pasture management and simulated cattle activities. *Population Ecology*, 56: 633-644.
- Yoshihara, Y., H. Mizuno and T. Y. Ito (2014) Effects of soil-salt accumulation on sheep body weight in Mongolian grassland: evidence of excess salt in plant and wool samples. *Landscape and Ecological Engineering* (in press): DOI 10.1007/s11355-014-0266-7
- Sato, S. (2014) Development of farm animal behavior and farm animal welfare in grassland science. *Japanese Journal of Grassland Science* (Suppl.) 60: (4)-(7) (in Japanese).
- Sato, S. (2014) Movement and perspective of the behavior/management discipline in the first decade of 21 century. *Nihon Chikusan Gakkaiho*, 85(3): 431-433 (in Japanese).
- Sato, S. (2014) From management to care-The look back on farm animal behavior last my 40 years-. *Journal of Tohoku Animal Science and Technology*, 64 (2): 1-5 (in Japanese).
- Sato, S. (2014) Global standard on animal welfare in dairy cattle production system. *Dairy Journal*, 67 (12): 30-32 (in Japanese).
- Sato, S. (2014) Rearrangement of the restricted areas and proposal for the future. *Livestock Technology*(in press), (in Japanese).
- Ogura, S. (2014) Production Diseases and Hygiene. In: *Current Handbook of Animal Industry*, Ohgimoto K., Nirasawa K., Kuwabara M., Terada F., Nakai Y. and Sugiura K.(Eds.), pp. 383-389. Kodansha Scientific Ltd., Tokyo (in Japanese).
- Sato, S. (2014) Implementation of animal welfare production system with grazing. In: *Multiple functions and animal welfare in the grassland farming system*. M. Yabe (Ed.), pp. 154-171, Tsukuba-Shobou, Tokyo (in Japanese).
- Sato, S. (2014) Animal welfare. In: *Science of pigs*. K Suzuki (Ed.), pp.189-193, Asakura-shoten, Tokyo. (in Japanese).
- Sato, S. (2014) Farm animal welfare. In: *Science of Animal Welfare*. Japanese Association of Veterinary Nursing and Technology Colleges (Ed.), pp.85-101. Interzoo, Tokyo. (in Japanese)
- Yoshihara, Y. (2014) Grassland utilization and conservation. In: *Current Handbook of Animal Industry* Ohgimoto K., K. Nirasawa, M. Kuwabara, F. Terada, Y. Nakai and, K. Sugiura (Eds.), pp.288-289. Kodansha Scientific Ltd., Tokyo. (in Japanese).
- Nakai, Y. (2014) The prologue. In: *The Science of Rapeseed — The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland* — , Y. Nakai, T. Nishio, H. Kitashiba, M. Nanzyo, M. Saito, T. Ito, M. Omura, M. Abe and Y. Ogushi (Eds), pp. i-ii, Tohoku University Press, Sendai (in Japanese).
- Nakai, Y. (2014) The March 11, 2011. In: *The Science of Rapeseed — The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland* — , Y. Nakai, T. Nishio, H. Kitashiba, M. Nanzyo, M. Saito, T. Ito, M. Omura, M. Abe and Y. Ogushi (Eds), pp. 1-6, Tohoku University Press, Sendai (in Japanese).
- Nakai, Y. (2014) The Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland. In: *The Science of Rapeseed — The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland* — , Y. Nakai, T. Nishio, H. Kitashiba, M. Nanzyo, M. Saito, T. Ito, M. Omura, M. Abe and Y. Ogushi (Eds), pp. 7-10, Tohoku University Press, Sendai (in Japanese).
- Nakai, Y. (2014) The eco-energy production and resource-recycling systems for reconstruction of suffered areas by rapeseed. In: *The Science of Rapeseed — The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland* — , Y. Nakai, T. Nishio, H. Kitashiba, M. Nanzyo, M. Saito, T. Ito, M. Omura, M. Abe and Y. Ogushi (Eds), pp. 102-108, Tohoku University Press, Sendai (in Japanese).
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- Nakai, Y. (2014) Animal production environment. In: The Animal Science Handbook, 4th edition, K.Ogimoto and Nakai, Y. (Eds.), pp. 546-548, Kodansha Ltd., Tokyo. (in Japanese).
- Nakai, Y. (2014) Resource-recycling of animal wastes. In: The Animal Science Handbook, 4th edition, K.Ogimoto and Y. Nakai (Eds.), pp. 579-580, Kodansha Ltd., Tokyo (in Japanese).
- Nakai, Y. (2014) Key words and abbreviation of animal production. In: The Animal Science Handbook, 4th edition, K.Ogimoto and Y. Nakai (Eds.), pp. 649-678, Kodansha Ltd., Tokyo (in Japanese).
- Nakai, Y. (2014) Supplement in animal hygiene and welfare. In: The Animal Science Handbook, 4th edition, K.Ogimoto and Y. Nakai (Eds.), pp. 705-709, Kodansha Ltd., Tokyo (in Japanese).
- Tada, C. (2014) Management and engineering for livestock waste treatment systems. In: The Animal Science Handbook, 4th edition, K.Ogimoto and Y. Nakai (Eds.), pp. 572-579, Kodansha Ltd., Tokyo (in Japanese).
- Nakai, Y., K. Tonami, M. Omura and Y. Ogushi (2014) The future topics and issues facing animal operations at Great East Japan Earthquake. *Journal of Sustainable Livestock Production and Human Welfare*, Vol. 68 (4): 457-465 (in Japanese).
- Nakai, Y. (2014) The organic resource utilization and environmental conservation. *Journal of Sustainable Livestock Production and Human Welfare*, Vol. 68 (1): 113-124 (in Japanese).
- Yamamoto, N., R. Asano, K. Otawa, R. Oishi, H. Yoshii, C. Tada and Y. Nakai (2014) The dynamics of microbial communities of animal wastes composts in molecular biology. *Journal of Sustainable Livestock Production and Human Welfare*, Vol. 68 (1): 149-154 (in Japanese).
- Nakai, Y. and M. Omura (2014) The sustainable meat processing facilities: reducing environmental load and saving energy. *Journal of the Yoton No Tomo* 1: 39-42 (in Japanese).
- Nakai, Y., T. Nishio, H. Kitashiba, M. Nanzyo, M. Saito, T. Ito, M. Omura, M. Abe and Y. Ogushi (2014) The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland after the GEJE – An institutional effort. Asia Oceania Geosciences Society 11th Annual Meeting (AOGS 2014) (invited speech).
- Nakai, Y., T. Nishio, H. Kitashiba, M. Nanzyo, M. Saito, T. Ito, M. Omura, M. Abe and Y. Ogushi (2014) The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland after the GEJE – An institutional effort. Japan Geoscience Union Meeting 2014 (invited speech).
- Akematsu, T., Y. Fukuda, R. Attiq and R. E. Pearlman (2014) Role of class III phosphatidylinositol 3-kinase during programmed nuclear death of *Tetrahymena thermophila*. *Autophagy*, Vol. 10 (2): 209-225:DOI 10.4161/auto.26929 (Peer-reviewed original article)
- Fukuda, Y., T. Akematsu, R. Attiq, C. Tada, Y. Nakai and R. E. Pearlman (2014) Role of the Cytosolic Heat Shock Protein 70 Ssa5 in the Ciliate Protozoan *Tetrahymena thermophila*. *The Journal of Eukaryotic Microbiology*(in press), (Peer-reviewed original article)

The Rice Production Group

- Ando, S., T. Ito, T. Kanno, T. Kobayashi, T. Morikawa, K. Honda, S. Tsushima and H. Takahashi (2014) Impact of organic crop management on suppression of bacterial seedling diseases in rice. *Organic Agriculture*, 4:DOI 10.1007/s13165-014-0067-1
- Gao Xu, M. Okubo, N. Maruoka, H. Shibata, T. Ito and S. Kitamura (2014) Production and utilisation of iron and steelmaking slag in Japan and the application of steelmaking slag for the recovery of paddy fields damaged by Tsunami. *Mineral Processing and Extractive Metallurgy* DOI: <http://dx.doi.org/10.1179/1743285514Y.0000000068>
- Ito, T. and H. Hirai (2014) Outline and issue of Unified Soil Classification System of Japan-2nd Approximation. In: *Soil Classification and Inventory*, Japanese Society of Soil Science and Plant Nutri-

- tion (Ed.), pp.58-85, Hakuyusya Co. Ltd, Tokyo (in Japanese).
- Ito, T. (2014) Soil survey of tsunami affected farmland in Miyagi and rapeseed as light of hope. In: The Science of Rapeseed-The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland-, H. Kitashiba, M. Nanzyo, M. Saito, M. Omura, M. Abe, T. Ito, T. Nishio, Y. Ogushi (Eds), pp. 55-65, Tohoku University Press, Sendai (in Japanese).
- Ito, T. (2014) Productivity issue and the solution in salt-excluded paddy fields damaged by tsunami caused by The 2011 off the Pacific coast of Tohoku Earthquake.. *Pedologist*, 58:51-58 (in Japanese).
- Komiyama, T., T. Ito and M. Saigusa (2014) Measurement of the maximum amount of water-extractable phosphorus in animal manure compost by continuous and sequential water extraction. *Soil Science and Plant Nutrition*, 60: 196-207.
- Komiyama, T., T. Ito and M. Saigusa (2014) Effects of phosphorus-based application of animal manure compost on the yield of silage corn and on soil phosphorus accumulation in an upland Andosol in Japan. *Soil Science and Plant Nutrition*, 60 (6): 863-873.
- Nakao, A., S. Ogasawara, O. Sano, T. Ito and J. Yanai (2014) Radiocesium sorption in relation to clay mineralogy of paddy soils in Fukushima, Japan. *Science of the Total Environment*, 469: 523-529.
- Yamamoto, T., K. Minamide, N. Asagi, T. Uno, M. Saito and T. Ito (2014) New function of Compost: Inhibitory effect of Acidulo®compost on weed germination and growth. *Journal of Integrated Field Science*, 11: 43-50.
- Tajima, R. (2014) Estimation of root length using image analysis with Image J, *Root Research*, 23 (3): 75-81 (in Japanese).

Marine Bio-Production Group

- Hirase S. and M. Ikeda (2014) Long-term vicariance and post-glacial expansion in the Japanese rocky intertidal goby *Chaenogobius annularis*. *Marine Ecology Progress Series*, 499: 217-231.
- Hirase S. and M. Ikeda (2014) Divergence of mitochondrial DNA lineage of the rocky intertidal goby *Chaenogobius gulosus* around the Japanese Archipelago: reference to multiple Pleistocene isolation events in the Sea of Japan. *Marine Biology*, 161: 565-574.
- Katamachi D., M. Ikeda, T. Sato, S. Suzuki, K. Kikuchi and D. Ojima (2014) Development of a multiplex PCR assay for population genetic analysis of the tiger puffer *Takifugu rubripes* using 16 microsatellite DNA loci. *Aquaculture Science*, 62: 55-63.
- Nam W-S., M. Kanno, M. Watanabe, M. Ikeda and A. Kijima. (2014) Genetic population structure of *Strongylocentrotus nudas* inferred from microsatellite DNA and mitochondrial DNA analyses. *Nippon Suisan Gakkaishi* 80: 726-740 (in Japanese with English abstract).

Integrated Field Control Group

- Morita, K. (2014) Farm Size and Forms Organization in Japanese Agriculture, pp.1-255, Norin Tokei Shuppan, Tokyo (in Japanese).
- Morita, K. (2014) The Measure of Farmland Consolidation for Foster Agricultural Workers. National Agricultural Research Center for Tohoku Region. *Rural Economic Research*, 31: 31-41 (in Japanese).
- Morita, K. (2014) Present Situation and Prospect of Entry into the Japanese Agriculture by Food Industry. *Journal of Food System Research*, 21 (2): 102-109 (in Japanese).
- Yonezawa, C. and S. Shibata (2014) COSMOSKYMED DATA OBSERVATION OF RECONSTRUCTION PROCESS IN AGRICULTURAL FIELDS DAMAGED BY THE MARCH 11 2011 TSUNAMI, Proceedings of International Symposium on Remote Sensing (in CD-ROM).
- Yonezawa, C. and S. Shibata (2014) Reconstruction process on paddy field from tsunami damage by the 2011 Tohoku earthquake observed with Cosmo-SkyMed data. Proceedings of the 56th Spring conference of the remote sensing society of Japan, pp. 135-136 (in Japanese with English abstract).
- Yonezawa, C. and G. Saito (2014) Application of Airborne Remote Sensing to Biomass Estimation - A case study on Field Science Center, Tohoku University -. *Journal of Integrated Field Science*, 11: 19-24.
- Hori, M. and C. Yonezawa (2014) Extraction of grassland degradation using LANDSAT data in near Ulaanbaatar region. Proceedings of the 2014 Spring conference of the Japanese Agricultural

- Systems Society, pp. 39-40 (in Japanese).
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- Yonezawa, C. (2014) Observation of agricultural damage caused by the 2011 off the Pacific coast of Tohoku Earthquake. Handbook of Agricultural Remote Sensing: 238-241 (in Japanese).
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- Osawa, K., G. Saito, D. Kunii and C. Yonezawa (2014) Classification of agricultural field in Osaka area by multi-temporal ASTER data. Handbook of Agricultural Remote Sensing: 190-195 (in Japanese).
- Omura, M. and M. Abe (2014) The Rapeseed Project, Tohoku University. In: The Science of Rapeseed — The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland — , Y. Nakai, T. Nishio, H. Kitashiba, M. Nanzyo, M. Saito, T. Ito, M. Omura, M. Abe and Y. Ogushi (Eds.), pp. 88-92, Tohoku University Press, Sendai (in Japanese).
- Omura, M. (2014) Profit from Rapeseed Cultivation. In: The Science of Rapeseed — The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland — , Y. Nakai, T. Nishio, H. Kitashiba, M. Nanzyo, M. Saito, T. Ito, M. Omura, M. Abe and Y. Ogushi (Eds.), pp. 93-96, Tohoku University Press, Sendai (in Japanese).
- Ogushi, Y. and M. Omura (2014) Case Study for Rapeseed and Rapeseed Flower. In: The Science of Rapeseed — The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt-Damaged Farmland — , Y. Nakai, T. Nishio, H. Kitashiba, M. Nanzyo, M. Saito, T. Ito, M. Omura, M. Abe and Y. Ogushi (Eds.), pp. 97-99, Tohoku University Press, Sendai (in Japanese).
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- Nakai, Y., K. Tonami, M. Omura and Y. Ogushi (2014) The Future topics and issues facing animal operations at Great East Japan Earthquake (2). Journal of Sustainable Livestock Production and Human Welfare, Vol. 68 (3): 332-338 (in Japanese).
- Takahashi, S., M. Omura, T. Yamaguchi and S. Sano (2014) Urban Renovation in Higashi Matsushima City. Jukai(127) Sumitomo Forestry Co. Ltd: 7-8
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- Omura, M. (2014) Agricultural Reconstruction in Higashi Matsushima City — 3 Years after the Great East Japan Earthquake. The Study on the Reconstruction Support in Higashi Matsushima City,

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- Omura, M. (2014) The Agri-Reconstruction Project and Rapeseed Project for Restoring Tsunami-Salt Damaged Farmland. Japan Geoscience Union Meeting 2014: (invited speech).
- Omura, M. (2014) The 4th International forum on the “Future City” Initiative (panel discussion).
- Omura, M. (2014) HOPE, bridging the gap of reconstruction process. Symposium on “Future Actions for Sustainable Reconstruction” (panel discussion).
- Omura, M. (2014) “School of Forest” — Post-Quake Reconstruction Project in Higashi Matsushima City. Asahi Beer ‘Lectures on environmental development’ (panel discussion).
- Bautista, E.G., M. Saito and M.J.C. Regalad (2014) Performance of an updraft rice husk gasifier system for powering village rice mills in the Philippines. *Journal of Food Agriculture and Environment*, 12 (2): 831-835.
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