Department of Environmental Bioscience

Laboratory of Environmental Soil Science

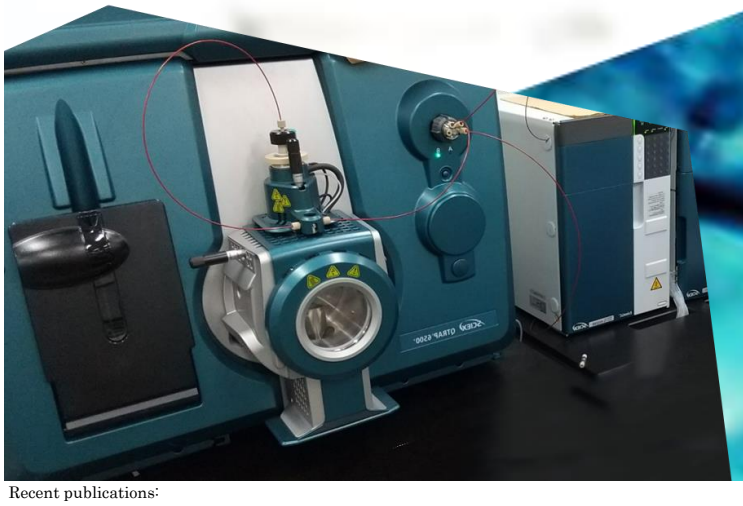
STAFF	Professor Toshiyuki ISOI	Professor Hirotatsu MURANO
TEACHING	Advanced Nutrient Dynamics, Advanced Seminar in Material Dynamics, Advanced Experiments in Material Dynamics, Material Cycling Systems, Fertilizer Science, Laboratory Works in Environmental Chemistry, Undergraduate Research, Seminar I, Seminar II	Advanced Soil Science, Advanced Seminar in Material Dynamics, Advanced Experiments in Material Dynamics, Soil Science, Environmental Soil Science, Introduction to Environmental Chemistry, Laboratory Works in Environmental Chemistry, Undergraduate Research, Seminar I, Seminar II

Professor
Toshiyuki ISOI

Professor
Hirotatsu MURANO

Soil is one of the most important natural resources for living things on earth.
We study how rhizobium and mycorrhizal fungi, which live in symbiosis with plants, contribute to natural and organic farming, and also study the dynamics of pesticides and organic chemicals, aiming to contribute to their effective use and reduction of environmental impact.
We welcome international graduate students to our lab.
http://www-agr.meijo-u.ac.jp/labs/nn018/english/index_eng.html

Join Our Research Team!



Recent publications:

Asano, K., W.V.A. Kagong,S.M.B. Mohammad, K. Sakazaki, M.S.A. Talip, S.S. Sahmat, M.K.Y. Chan, **T. Isoi**, M. Kano-Nakata and H. Ehara (2021) Arbuscular mycorrhizal communities in the roots of sago palm in mineral and shallow peat soils. *Agriculture*, 11(11): 1161.

Murano, H., G. Liu, Z. Wang, Y. Tanihira, T. Asahi and **T. Isoi** (2021) Quantification methods of pyrogenic carbon in soil with soil as a complex matrix: comparing the CTO-375 and Cr_2O_7 methods. *Soil Science and Plant Nutrition*, 67(4): 380-388.

Murano, H., K. Suzuki, S. Kayada, M. Saito, N. Yuge, T. Arishiro, A. Watanabe, and **T. Isoi**. (2018) Influence of humic substances and iron and aluminum ions on the sorption of acetamiprid to an arable soil. *Science of the Total Environment*, 615：1478-1484.