



University of Tsukuba

Plant *Transgenic Design* Initiative

43rd PTraD Research Seminar

T-PIRC Research Seminar

Date and Time: 2018/6/21 (Thu) 15:30 –16:30

Place: Gene Research Center, Seminar Room (211)

Utilizing microorganisms for sustainable land productivity in coffee and pepper crops

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From the collection of domestic microorganisms in southern Vietnam, the set of microbial products was achieved for serving those above crops. The main purposes of microbial fertilizers in those crops are for N fixation; soluble phosphate; organic matter decomposition and nutrient absorbance enhance (vesicular-arbuscular mycorrhizal fungi - VAM). Microbial bio-pesticide applied in coffee and pepper crops are for control plant pathogenic fungi and nematodes. Besides, the process is being developed to apply microorganisms in combining with reasonably managing the agricultural community of grass/herbaceous plant as share host of microorganisms, especially mycorrhizal fungal flora. Biochar from coffee husks and other waste of those crops can be used to enhance the effect of those microbial products. The proposed process will be able to improve crop quality and yield, decrease the use of chemical farming as well as maintaining the sustainability of those agricultural ecosystem.

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