

## Change in composition of gut microbiota by exposure of natural medicines including *Glycyrrhizae Radix* in mice

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Many of researches have revealed that human intestinal microbiota is related to health. Several diseases like obesity, diabetes, and hypertension are affected by the microbiota directly and indirectly. So, interventions with food and drug have been tried to change a composition of the microbiota to better condition. However, few natural medicines have elucidated to date. To understand an influence on microbiota by plant materials including *Glycyrrhizae Radix*, the extract of medicines were administered to mice and the feces were collected before and after the administration. The feces were analyzed by terminal restriction fragment length polymorphism (T-RFLP). The changes in composition of mice gut microbiota were detected and analyzed. The data could be utilized to further study about biological activities of the plant medicines.

Key words: Gut microbiota, Natural medicines, *Glycyrrhizae Radix*, T-RFLP, Feces

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