

# Young Scientist Research Project - Topic 5

Title

Effects of drainage treatment on water physiology of legume

## ① Background Information

- **Personnel:** 1 person, A researcher from one of KAFACI member countries
- **Period of Training:** June 2020 ~ December 2020 (6 months)
- **Implementing Department:** Crop Production and Physiology Research Division, National Institute of Crop Science
- **Research Studies Currently Being Implemented:**
  - Identification of growth and yield characteristics of soybean under drainage treatment in the paddy field cultivation
  - Study on changes of water and soil characteristics under drainage treatment in the paddy field cultivation
  - Identification of physiological damaged mechanisms of soybean caused by water stress in the paddy field cultivation

## ② Course Description

- **(Training Purpose)** Research on water physiology of legume and training on productivity improvement
  - \* Quantitative goal: Paper Submission (1, non-SCI)
- **(Professional Capacity building)** Analysis of water stress response of soybean for drainage effect analysis
  - Study on the growth and physiological response mechanisms of soybean depending on soil moisture condition
  - Analysis of changes of water balance and soil moisture under drainage treatment in the paddy field cultivation

## ③ Qualifications of the Trainee

- **(General Requirements)**
  - A government official working in one of KAFACI member countries, and recommended by the head of his/her organization
  - Advanced degree at MSc. (or PhD) level; and at least 5 years of research experience
  - Proficiency in English, and computer applications and operations
- **(Specific Requirements)**
  - A specialist who majored in plant physiology
  - A specialist whose country possess acreage under soybean cultivation