A Proposal for the Young Scientist Project

Title	Identification of Genetic Characteristics of Agricultural Pests and Development of Control Technologies

1. Course Outline

❍ **Personnel**: KAFACI member countries

❍ **Period of Training**: March 2025 – November 2025 (8 months)

❍ **Implementing Department**: Crop Protection Division, National Institute of Agricultural Sciences

❍ **Research Studies Currently Being Implemented**

- Study on the ecological characteristic of Tomato leafminer and development of control method

2. Plan Course Direction

❍ **(Training Objectives)** Training on the ecological characteristics of invasive pests, the causes of their localization, and management methods

   * Quantitative Goals: Insect pest population genetic analysis (2 species) and Natural enemy efficacy test(1 species), Research paper submission (1 papers)

❍ **(Systematic Expertise Development)** Training on pest host searching, host alternation, and Prevents pests from entering crops

❍ **(Enhancement of Self-Directed Learning)** Develop self-directed research through designing and implementing research tasks

❍ **(Research and Academic Activities Enhancement)** Improve research skills through paper submissions and participation in expert group activities

❍ **(Future-Oriented Capability Development)** Identify the genetic characteristics of major pests in the home country and promote pest control technologies

3. Qualifications of Participants in Young Scientist Project

❍ **(General Requirements) Requirements for all Young Scientists**

- Must be a government official from a KAFACI member country, recommended by the head of their affiliated organization.

- Must hold a master's degree or higher in a relevant field with at least five years of related experience.

- Proficiency in English and excellent computer skills are required.

❍ **(Details) Additional Requirements**

- Applicants with advanced knowledge and research experience in the field* holding a Master's degree or higher

   * Relevant Fields: Agricultural Entomology, Population Genetics, Crop Protection Science

- Proficiency in using MS-Office and statistical analysis software (R, SAS, SPSS)