

# 農產品農藥殘留檢測中心

## ► Pesticide Residue Analysis Center

### 成立宗旨

農藥殘留檢測中心於97年初原創立於本校植物病理學系，於99年度3月經農資學院院務會議正式通過「農產品農藥殘留檢測中心」成立草案，並經校務會議審核通過為農業暨自然資源學院下之附屬單位，目前已為TAF ISO17025認證實驗室，協助政府執行安全農產品及其加工品檢測業務，並辦理農藥殘留檢驗與分析等相關計畫。

本中心於97年由農委會輔導成為國內農藥殘留區域檢驗中心之一，成立至今主要協助外銷及國內市場農產品農藥殘留把關，此外也協助業界農藥主成分分析等之化學分析服務，並支援食品安全相關毒化物諸如三聚氰胺、塑化劑及食品添加劑等之檢測服務。

### 儀器設備與服務項目

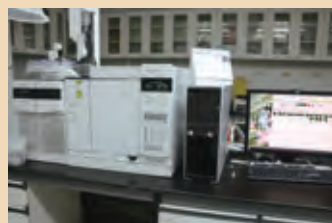
本中心主要配有液相層析串聯式質譜儀AB SCIEX 5500、API 4000及氣相層析串聯式質譜儀Agilent 7000A、Bruker Scion TQ-436及配有頂空進樣器Agilent 7890A GC-FPD，中心目前已經建置有衛生福利部公告311項多重農藥殘留檢測方法，檢測極限均可達國際標準ppb（百萬分之一）準確度水平。

近年來本中心檢測服務件數逐年增加，從2008年建立初期500餘件，至本年度2015已超過4500餘件，除例行性檢測業務外，中心亦配合本院植物病理學系害物藥劑學相關課程安排，提供學生農藥殘留檢測實務操作機會，學習多重農藥殘留分析包

含萃取、純化、圖譜分析以及數據處理等技術，並設計系列農藥作用機制海報用於教導研究生及農場管理從業人員農藥合理性應用。自2014年起中心主任曾德賜教授致力於植物醫師法推動，於每年舉辦為期8週，每週12小時有關農藥藥理與應用密集訓練課程，教導學員農藥處方應用專業知識與技能，以裨益永續植物保護及安全農業相關產業之健全發展。



▲中心核心設備—液相層析串聯式質譜儀  
Core facility, Liquid chromatograph/ tandem mass spectrometer (LC/MS/MS) in PRAC.



▲中心核心設備—氣相層析串聯式質譜儀  
Core facility, Gas chromatograph/ tandem mass spectrometer (GC/MS/MS) in PRAC.

### Organization

The center comprises an Administration Section, Certification Section, Certification Management Committee, and Agriculture Specialist Group. The director is a faculty member of the Department of Soil and Environmental Science, NCHU, and the section leaders are well trained using ISO 9001, ISO 2200, ISO Guide 65, and ISO 17025 systems, which are international management standards.

### Functions

1. To execute agricultural product certification, including Traceable Food Safety, Organic Products, and Organic Materials Certification.
2. To assist the government in ensuring food safety and implementing a traceable agriculture product system.
3. To help farmers develop modernized and sustainable farming and establish environmental resource management and conservation systems.
4. To apply a reliable examination system to precisely evaluate soil, water, and agricultural products.
5. To conduct professional training programs on inspection skills, agricultural knowledge, and food processing and marketing concepts.

### Establishment Objective

The major objectives of the Agricultural Products Approval and Certification Center are to provide services concerning agricultural products certification under the Agricultural Product and Certification Management Regulations, to integrate multiple resources for improving the quality of soil, water, and products, and to educate students, inspectors, farmers, and customers to promote the security of food safety, competitiveness of agricultural products, and quality of human health in Taiwan, and introduce the traceability management system in the agricultural industry to the education system.



▲植物醫學人才培育—農藥藥理與應用（師資班）課程結訓典禮  
Closing ceremony of "Practitioner Training Program in Plant Medical Science - Mode of Action and Application of Pesticides for University Faculties and Managers from Industry Sectors"