赴美出席 2022 臺美農業科學合作會議與參訪農業研究中心

家畜衛生試驗所

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摘要

「2022 臺美農業科學合作會議」於本(111)年美國時間 8 月 2 日 在美國首都華盛頓特區農業部召開,臺美雙方分就動物健康、畜牧生 產、農糧與植保、自然資源與永續農業、營養與食品高值化等5個研 究議題,由我方試驗機構首長與美方國家型計畫主持人共同擔任議題 分組召集人,雙方互相討論與分組總結,本所同仁研提「豬矽尼卡病 毒分子流行病學研究與檢測試劑之研發 | 計畫,與美國農業部農業研 究署國家動物疾病中心(National Animal Disease Center)共同進行豬矽 尼卡病毒全基因解序,比較美方與各國流行病毒株序列,並建立血清 學檢測方法與美方共同開發測試檢驗試劑套組;以及報告進行中之抗 藥性監測計畫(Molecular Approach to Antimicrobial Resistance),在美 方專家協助下,進行抗藥性菌株的監測與全基因組序列 (WGS)分 析。代表團亦於 8月1日參訪 Beltsville 農業研究中心(BARC)並與相 關專家進行交流,並就部分合作議題由我方代表團成員與美方計畫合 作單位進一步討論雙方執行進度與成果,本所參訪 BARC 後擬與動 物寄生蟲疾病實驗室專家進行合作,將共同進行寄生蟲性疾病研究, 以了解氣候變遷下寄生蟲疾病之變化。

To attend 2022 Bilateral Cooperation Meeting on Agricultural

Science and Technology in USA and visit the Beltsville

Agricultural Research Center

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Abstract

The 2022 Bilateral Cooperation Meeting on Agricultural Science and Technology was held on August 2, 2022 by the U.S. Department of Agriculture (USDA) at Washington, D.C., the capital of the United States of America. Both sides discussed and concluded five research issues: Animal Health, Animal Production, Crop Production & Protection, Natural Resources & Sustainable Agriculture Systems, and Nutrition, Food Safety & Quality. The chairpersons of each research issue were a director general of research institutes of Council of Agriculture, Taiwan and a National Program leader of USDA. The project "Molecular epidemiology of Seneca Valley virus in Taiwan and development of its diagnostic kit" was proposed by the Animal Health Research Institute (AHRI). With the collaboration of National Animal Disease Center, Agriculture Research Service (ARS), the project aims to obtain full-length genome sequences of Seneca Valley virus (SVV) and then to investigate sequence differences among SVV strains of Taiwan, the USA, and other countries. In addition, the ARS will assist the Taiwan side in evaluating an ELISA with field sera shared by the USA side when the prototype ELISA of SVV antibodies was developed by the AHRI. In addition, the ongoing program of Molecular Approach to Antimicrobial Resistance (AMR) was discussed. This program was involved in surveillance of AMR and whole genome sequencing (WGS) analysis, carried out by the guidance of the US expert. The Taiwan delegation visited the Beltsville Agricultural Research Center (BARC) and progresses and results of some ongoing projects were discussed with the experts of BARC on August 1, 2022. Animal Parasitic Diseases Laboratory (APDL) of BARC would like to assist AHRI to study the parasitic diseases and then to broaden understanding of the change of parasitic diseases as a result of climate change.