

赴美研習「2023年國際高防護實驗室實務及技術研討會」

疫學研究組

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摘要

美國堪薩斯州立大學生物安全研究所 (Biosecurity Research Institute, Kansas State University, Manhattan, Kansas, United State) 在高防護研究設施方面，有許多獨一無二之處，為美國境內唯一整合獸醫醫學、植物病理、食品安全及分子生物學，並可進行研究及培訓的單位。在這一棟建物中，可進行食媒病原、動物病原、植物病原、蟲媒病原及人畜共通病原相關研究，使該單位向來為農業與公共衛生的領導。

為了推廣實驗室生物安全之實務與技術，由美國農業部動植物檢疫局 (Department of Agriculture Animal and Plant Health Inspection Service, APHIS) 經費支持國際上不同國家的參與人員，參加「International High-Containment Laboratory Practices and Techniques Seminar (國際高防護實驗室實務及技術研討會)」。課程內容包含實驗室生物安全、風險評估及減災策略、個人防護、生物安全櫃使用、感染性生物材料之運送及緊急應變等，並於課程的最後，由與會成員以小組報告制定 BSL-3 操作高風險病原。

2023 International High-Containment Laboratory

Practices and Techniques Seminar

Li-Hsuan Chen

Abstract

Kansas State University Biosecurity Research Institute (BRI) is a unique institute in high containment facilities for researching and training and integrates veterinary medicine, plant pathology, food safety, and molecular biology. The research activities of food-borne, animal, plant, and arthropod-borne pathogens and zoonosis pathogens can be held in one building, allowing the BRI become a leader in agriculture and public health.

To promote safe work practices and techniques in high containment laboratory worldwide, Department of Agriculture Animal and Plant Health Inspection Service (APHIS) funded the international participants to attend "International High-Containment Laboratory Practices and Techniques Seminar". The content of the seminar included laboratory biosafety, risk assessment and mitigation strategies, personal protective equipment use, biosafety cabinet use, transportation of infectious materials, emergency procedures, etc. In the last lesson, participants are asked to organize a project on high-risk pathogens in BSL-3 by group presentation.