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**Original Article** 

## The Sanitation Surveillance of Taoyuan International Airport, Taiwan, 2014-2016

Yao-Wen Tsai\*, Chien-Hao Huang, Mei-Jung Chen, Jhy-Wen Wu, Kun-Bin Wu

## Abstract

According to Taoyuan International Airport (TPE) sanitation surveillance data from 2014 to 2016, the major species in the adult mosquito survey is Culex quinquefasciatus (94.8%) as well as in the aircraft surveillance (98.5%). The major rat species in the rat surveillance is Rattus norvegicus. The number of captured rats had no significant differences between seasons. However, the location of rat captured was significantly associated with the living habits of their species. The results of rat's serum antibody were all negative for murine typhus, hantavirus, or yersiniosis. In addition to sustainable surveillance, distinguishing native mosquitoes or rat types from allochthonous ones, if possible, could improve the surveillance quality at points of entry to reduce the opportunity of outbreak from emerging infectious diseases in Taiwan.

**Keywords**: Taoyuan airport, surveillance, *Culex quinquefasciatus*, rat types, vector control

Northern Regional Center, Centers for Disease Control, Ministry of Health

and Welfare, Taiwan

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Corresponding author: Yao-Wen Tsai\*

E-mail: hijackjack@cdc.gov.tw

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