

# 臺灣禽流感 H9N2 抗體之檢測報告

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## 摘要

為因應香港大學管軼教授發表於 Journal of Virology 有關臺灣家禽屠宰場之雞隻血清檢體檢出禽流感 H9N2 抗體案，本所針對 103 年 4 月 15 日採集自家禽屠宰場(台北市家禽批發市場)雞隻血清樣本及中區家禽保健中心 103 年 1 月至 7 月 8 日送至本所之雞隻主動監測 H5 與 H6 禽流感抗體陽性血清樣本，以分讓自香港大學管軼教授之兩株禽流感 H9N2 病毒株(A/CK/HK/HH117/2012, HK-HH117 與 A/CK/HK/NT155/2012, HK-NT155)進行血球凝集抑制(HI)試驗，檢測其抗體。結果顯示家禽屠宰場雞隻血清樣本以 HK-HH117 病毒株檢測結果僅有一場珠雞有 2 支血清為低倍陽性抗體，而以 HK-NT155 病毒株檢測結果 100 支血清均為陰性；另以該二株禽流感 H9N2 病毒株檢測 1490 支主動監測送檢之雞隻血清樣本，結果顯示以禽流感 HK-HH117 病毒株檢測均為抗體陰性；而以禽流感 HK-NT155 病毒株檢測則有 7 支血清呈抗體陽性(16x 以上)，此抗體陽性雞隻血清分布於 5 雞場(土雞 4 場，蛋雞 1 場)。

# **The report of detecting antibodies against Avian Influenza H9N2 Virus in Taiwan**

Lin Yeou-Liang

## **Abstract**

Due to the report of Hong Kong University professor, Guan Yi, published a paper in the Journal of Virology about the antibodies against avian influenza H9N2 virus in Taiwan. A batch of chicken sera collected in Taiwan poultry slaughterhouse was rechecked. The chicken serum samples, including 100 serum samples were collected at the same poultry slaughterhouse, Taipei Poultry Market, on April 15, 2014 and 1490 serum samples were sent by Poultry Health Center Central Laboratory, National Animal Industry Foundation and were collected between January 2014 and July 8, 2014 basing on the active surveillance project which have been prior detected antibodies positive against the H5 and H6 of avian influenza virus, were implemented the hemagglutination inhibition (HI) test by using two stains of avian influenza H9N2 viruses (A / CK / HK / HH117 / 2012, HK-HH117 and A / CK / HK / NT155 / 2012, HK-NT155) which were shared from the laboratory of Professor Guan Yi in Hong Kong University for the detection of antibodies against H9N2 viruses respectively. The results of the 100 serum samples from Taipei Poultry Market demonstrated that only two serum samples from a guinea fowl farm to HK-HH117 AIV showed seropositive but with low antibody titer; on the contrary, to the HK-NT155 AIV was seronegative. The results of 1490 serum samples from the active surveillance project indicated that all of the serum samples to HK-HH117 AIV were shown seronegative; whereas to the HK-NT155 AIV have 7 serum samples shown seropositive (antibody titers were greater than 1: 16). These antibody-positive sera were collected from five different farms (four chicken farms, one layer farm).