2011 Achievement

Subject of Project: A Strategic Study of Rabies Prevention in Taiwan

Grant No.: 100AS-9.6.1-BQ-B4

Grant provided by: Bureau of Animal and Plant Inspection and Quarantine (BAPHIQ), Council of Agriculture (COA), Taiwan, The Republic of China (ROC).

Major Investigator: Professor Dr. Andrew Chang-Young Fei

Results:

1. Brain samples from 1,196 stray dogs were examined for the presence of rabies virus and all samples were negative. Brain samples from 10 dogs presented nervous signs or distemper like signs were also taken for the rabies surveillance program and nucleic acid of canine distemper virus was detected in 2 samples.
2. Totally 562 sera of domestic dogs were examined for the antibody against rabies. 57.1% of domestic dogs were seropositive.
3. Totally 35 sick(or dead) bats and one bat with abnormal behavior and one bat that bites people were collected in Taiwan and brain tissues were taken for the surveillance of bat rabies in Taiwan. The direct fluorescent antibody (DFA) testing was performed on brain tissue of 37 bats to examine the presence of rabies virus and other lyssavirus and all samples were negative. Totally 45 sera of apparently healthy bats will be sent to the rabies diagnostic laboratory in Atlanta to examine the presence of lyssavirus antibody. The above result surveillance result of lyssavirus on bat sera and brains in Taiwan could be used as epidemiology information for rabies free country.
4. Achieved Mandarin translation draft of “Disease Strategy Australian Bat Lyssavirus”.