

COMMON CIRDC VITA

Canine Influenza; CIV

ssRNA, Influenza A, Orthomyxoviridae **Genetic Implications:**

Equine: H3N8 (USA, 2004) Avian: H3N2 (South Korea, 2007)

Canine Parainfluenza; CPIV

ssRNA, Paramyxoviridae **Genetic Implications:**

Simian virus 5

Canine Distemper; CDV

ssRNA, Paramyxoviridae **Genetic Implications:**

Measles, CDV wide-range hosts

Canine Respiratory Coronavirus; **CRCoV**

ssRNA, Coronaviridae Genetic Implications:

Human Coronavirus OC43 **Bovine Coronavirus**

Canine Adenovirus-2 (CAdV-2)

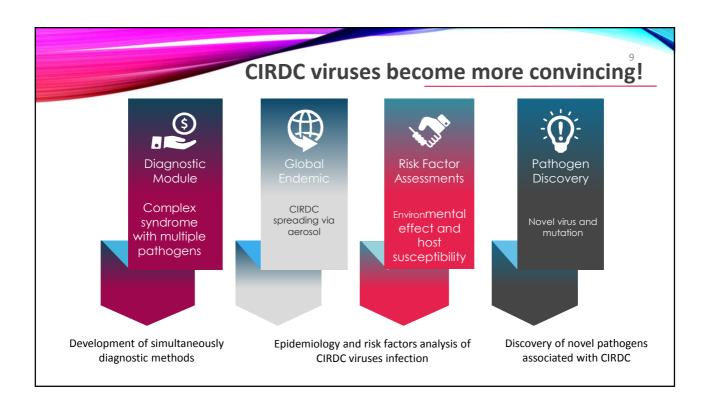
dsDNA, Adenoviridae **Genetic Implications:**

CAdV-1, wild mammalians

Canine Herpesvirus-1 (CaHV-1)

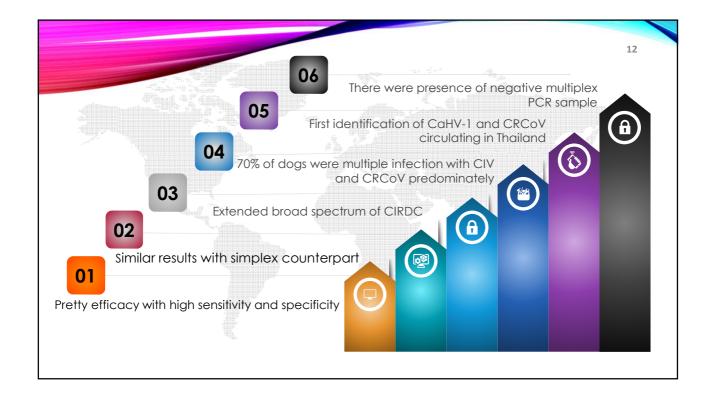
dsDNA, Alphaherpesviridae **Genetic Implications**

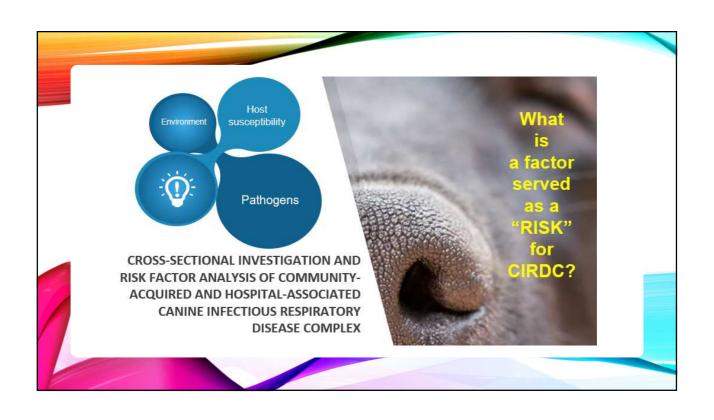
Feline herpesvirus-1 (FHV-1) Equine herpesvirus-1/-4 (EHV-1/4)

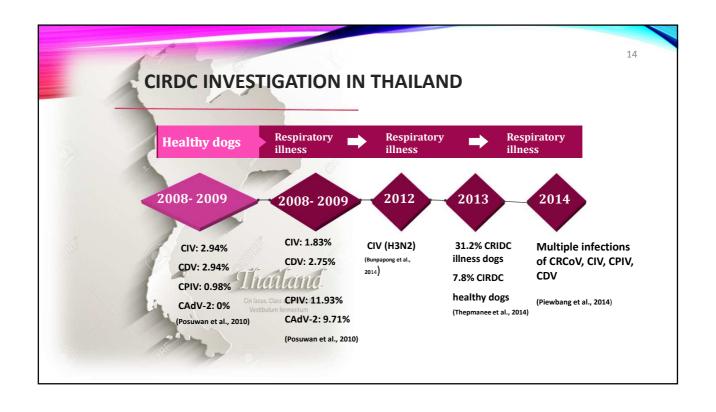


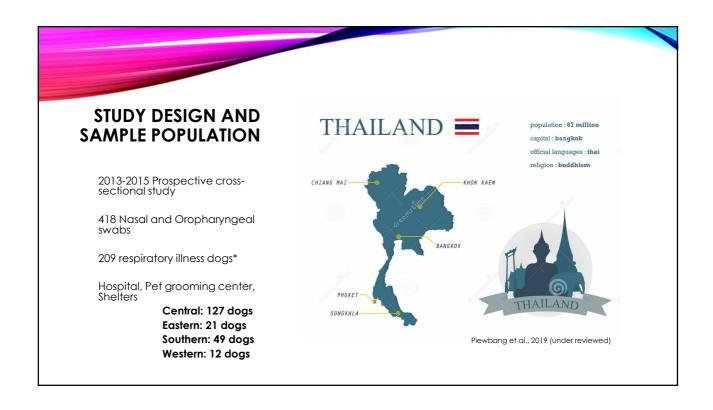


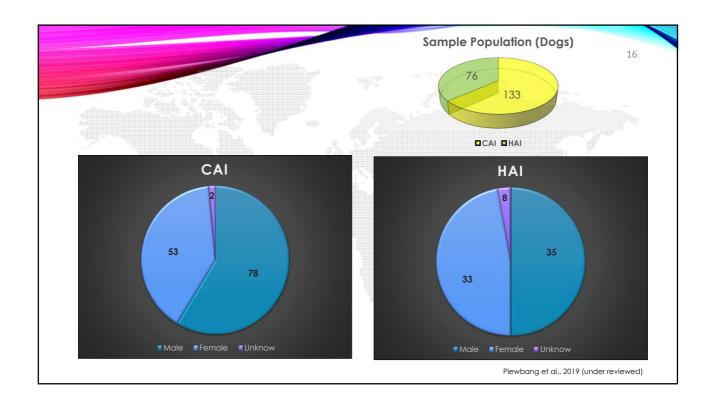
MULTIPLEXPCR FOR CIRDC-VIRUS DETECTION Figure. (A) multiplex RT-PCR and (B) multiplex PCR tested on clinical samples (\$1-\$14). (Piewbang et al., 2016)

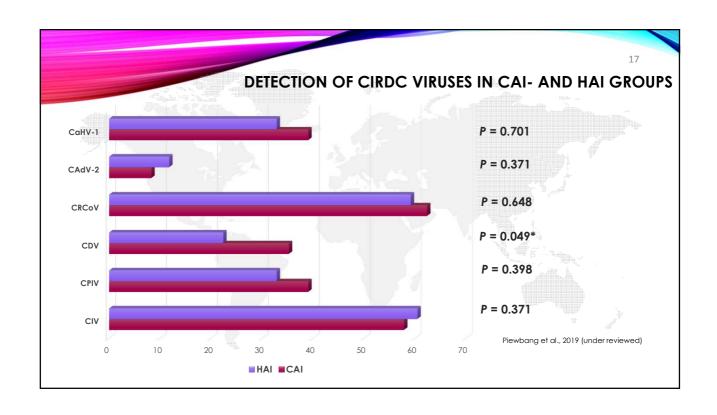


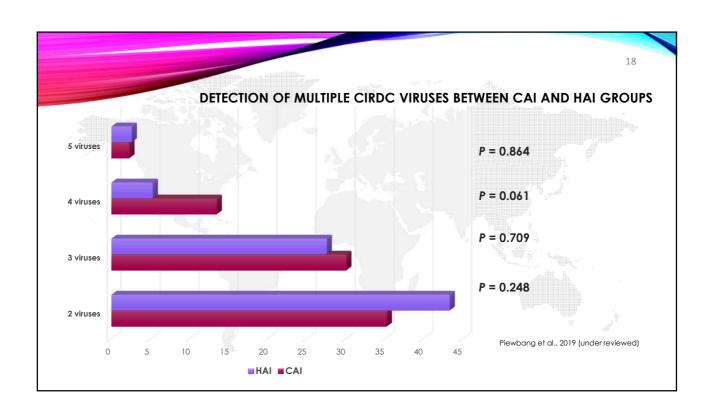


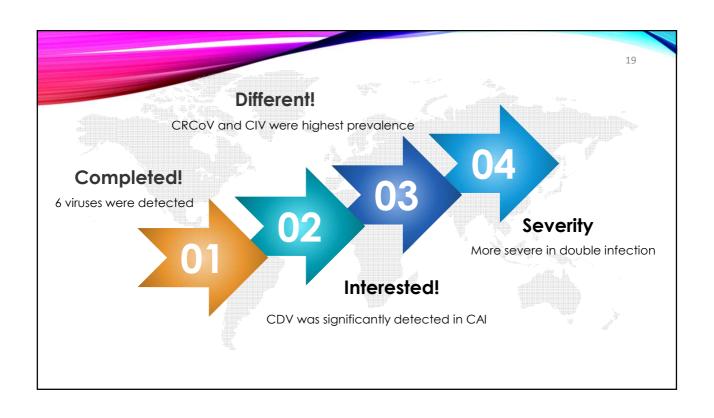


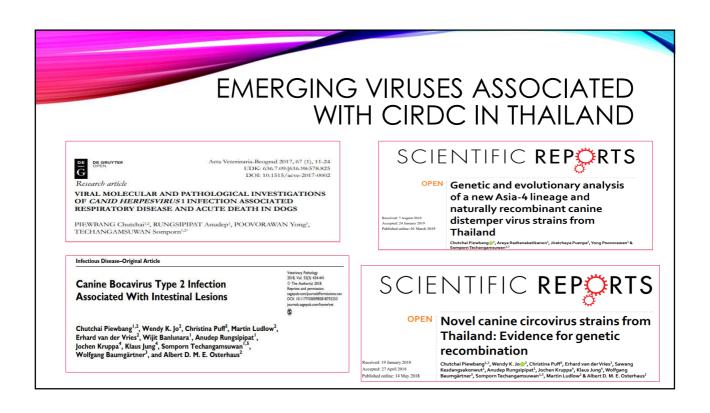


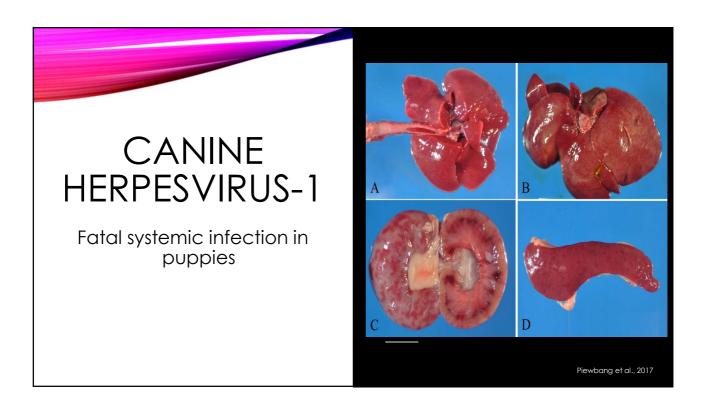


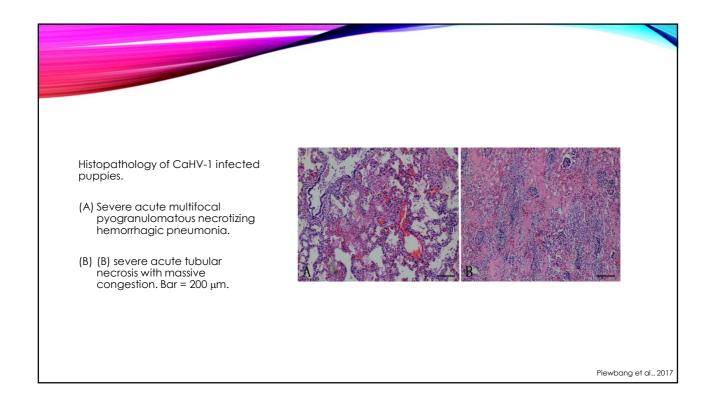




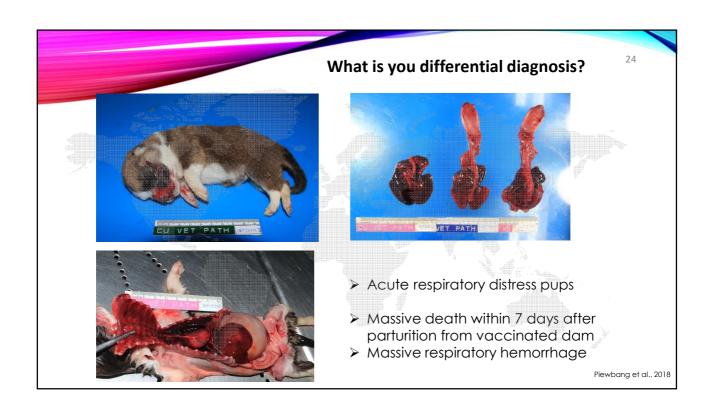


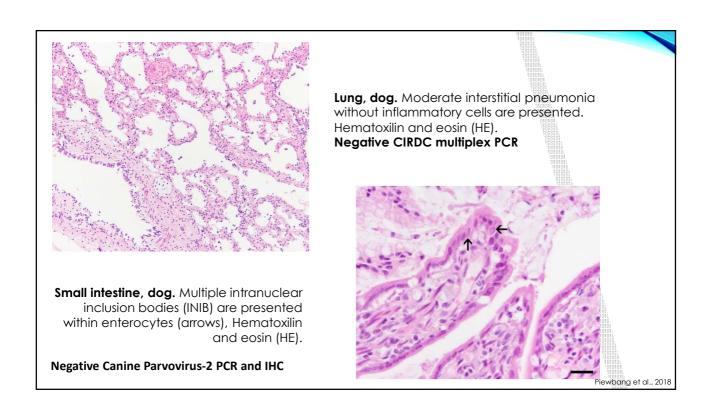




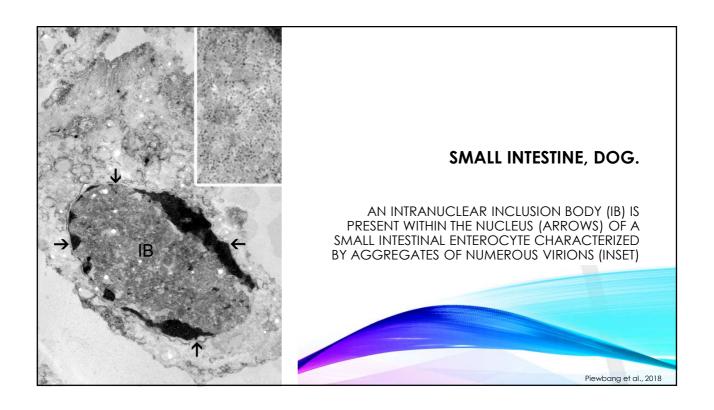


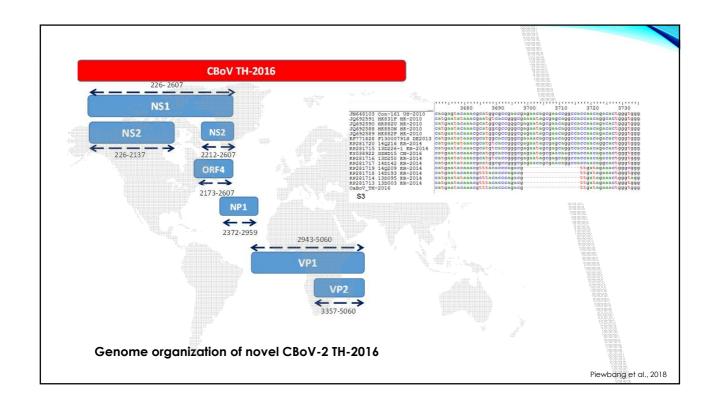


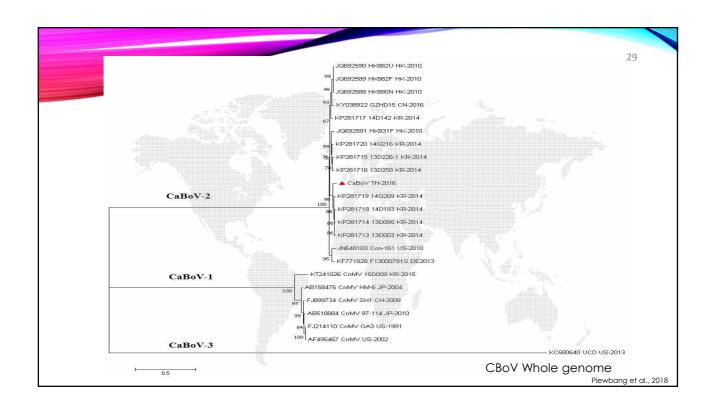


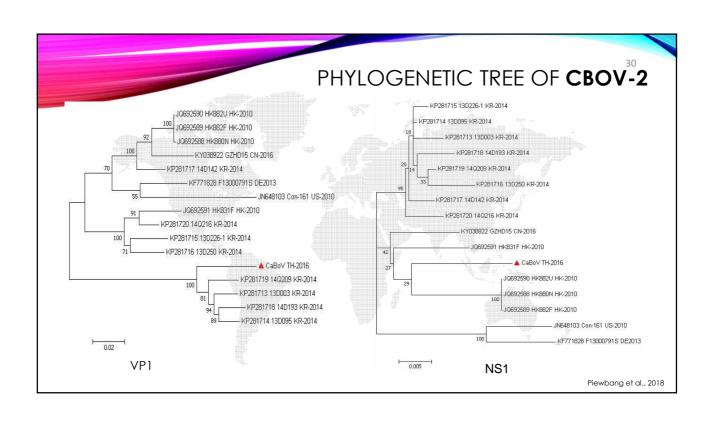


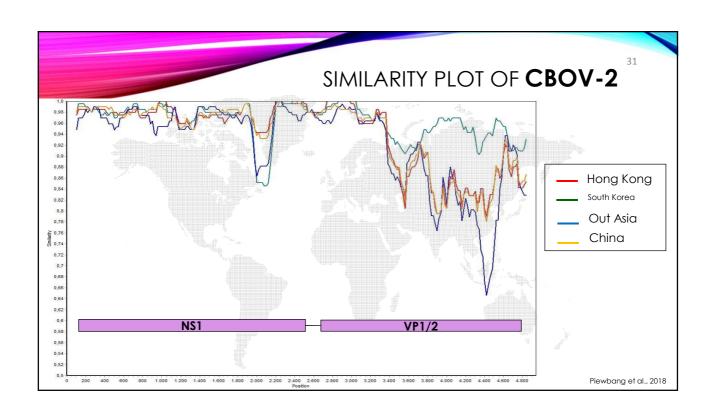


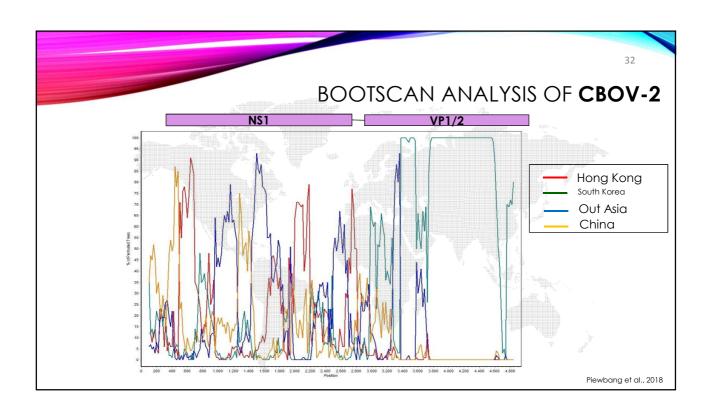


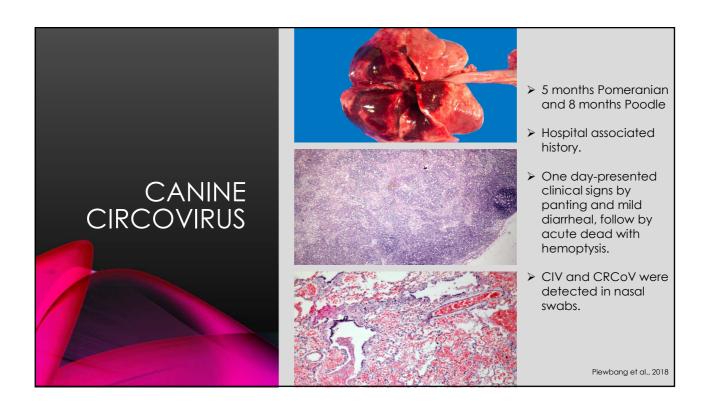


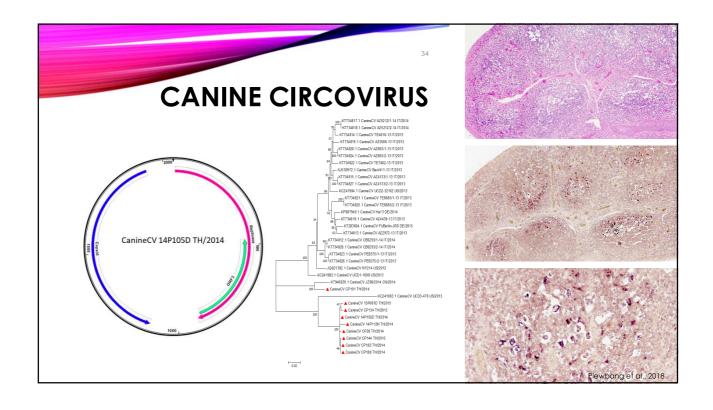


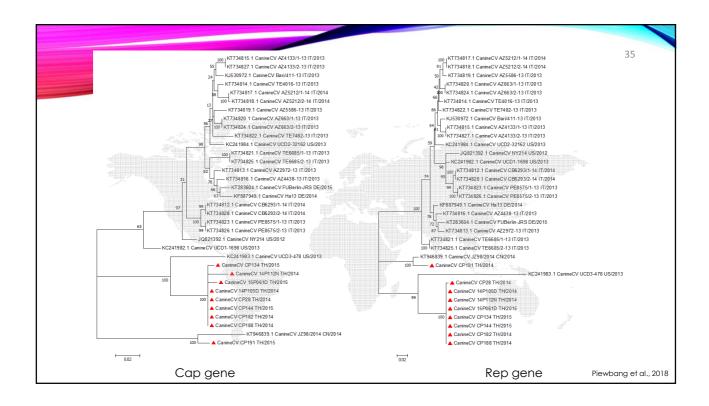


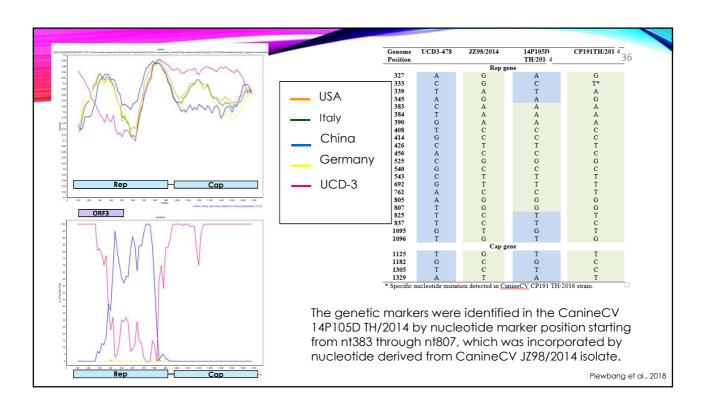


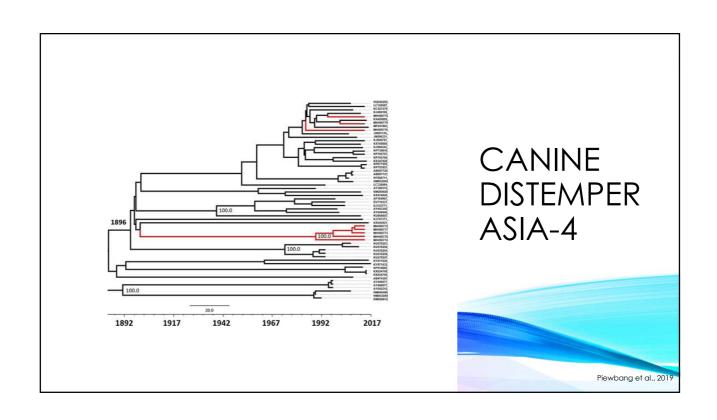


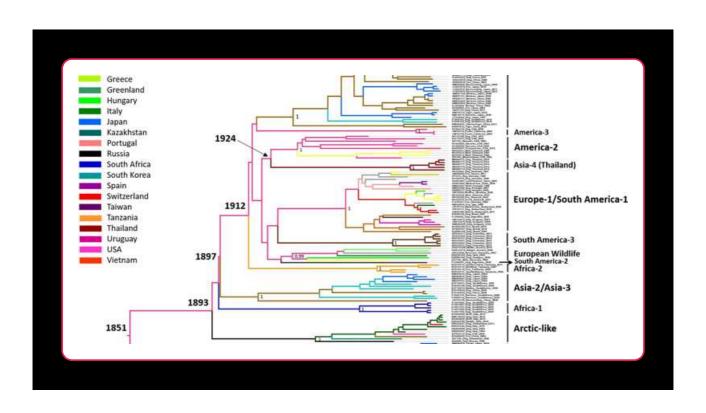


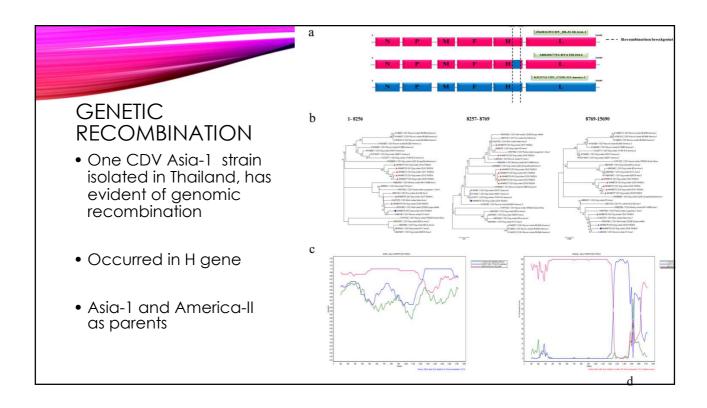






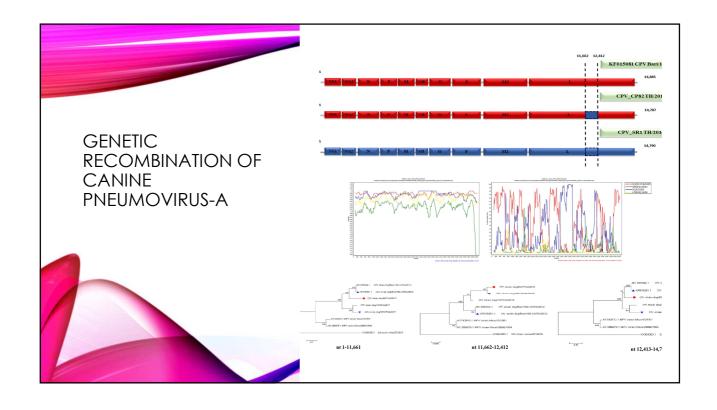








CANINE PNEUMOVIRUS Among 209 dogs, 8 dogs positive CnPnV The CnPnV isolating in Thailand belongs to CnPnv gr. A First identification of CnPnV in Asia Genetic recombination firstly identified in CnPnV-Thai strain



EXECUTIVE SUMMARY

- Developed multiplex PCRs yielded effective dynamic ranges for CIRDC virus detection.
- Many common respiratory viruses including CaHV-1, CIV and CRCoV were established in this study.
- CaHV-1 is one pathogens that should be considered in acute dead pups
- Most of infected dogs were multiple infection; however, no correlation of possible source of infections.
- CDV is still present and high prevalent in Community acquired dogs.
- Severity of respiratory clinical signs is depended on age of infected dogs.

- Novel naturally recombinant CBoV-2, CanineCV, CDV-Asia I and CnPnV were reported.
- Establishment of CBOV-2 could be represent pathognomonic lesion mimic to CBoV-1 infection.
- Novel CDV-Asia4 was addressed.
- Recent Respiratory associated pathogens were determined.

43



