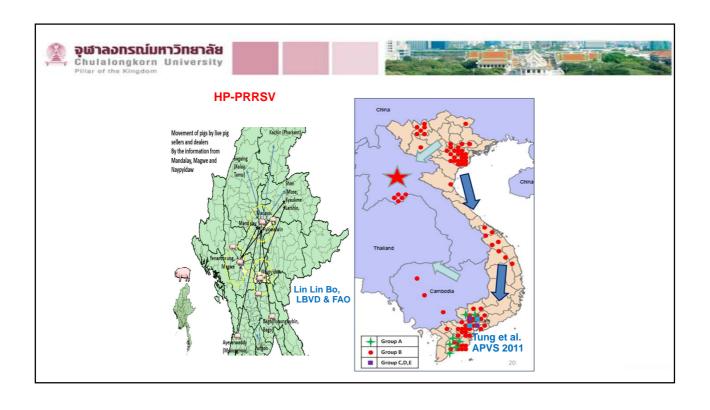




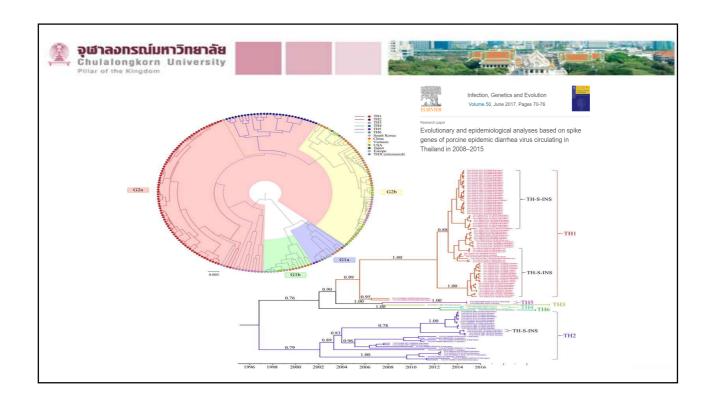
Major Factors contributing to EID

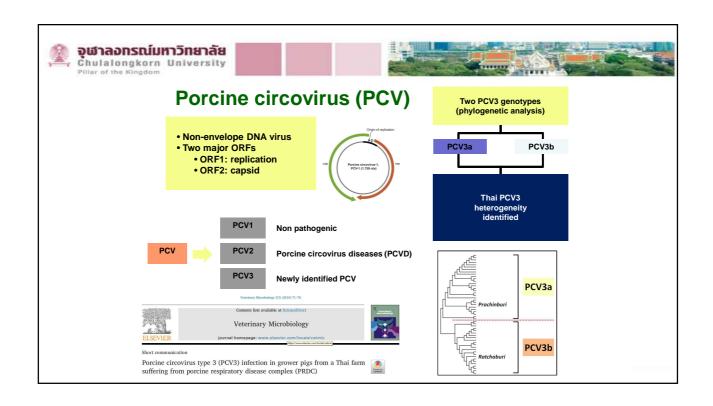
- HUMAN BEHAVIOR
 - -Political, Social, Culture & ECONOMIC
- PHYSICAL ENVIRONMENTAL FACTORS
- ECOLOGIC FACTORS
 - -Climatic changes & forestation
- GENETIC/BIOLOGIC FACTORS
 - -Host and agent mutations & engineered viruses
 - -Increased survival of susceptible hosts
 - -Monoculture environment of the farm industry



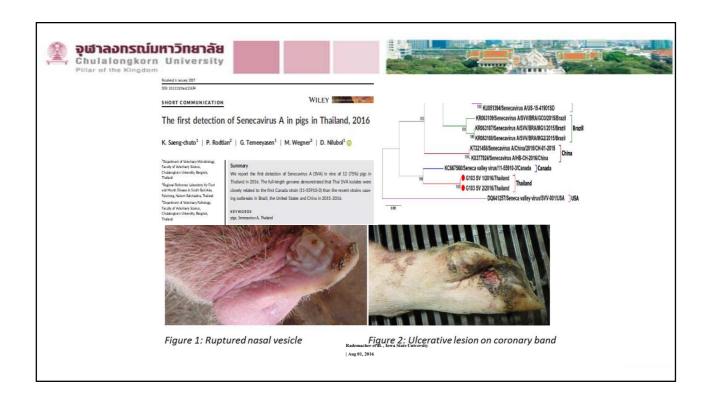






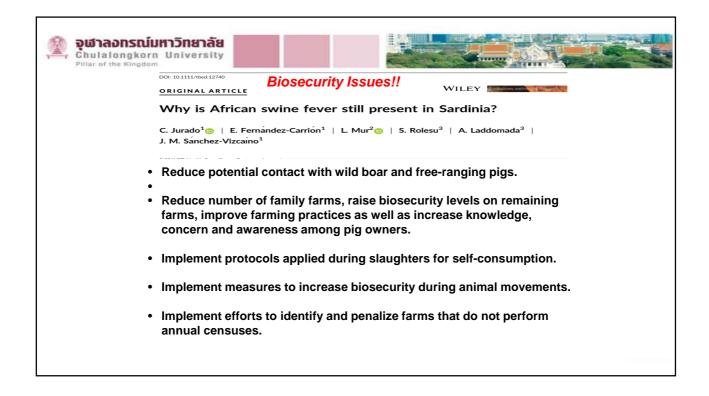








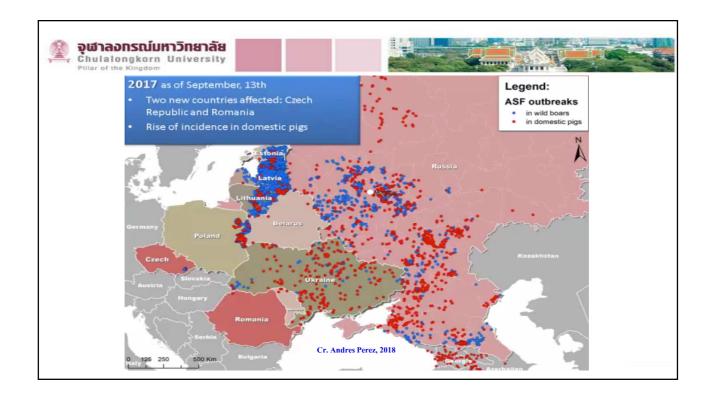


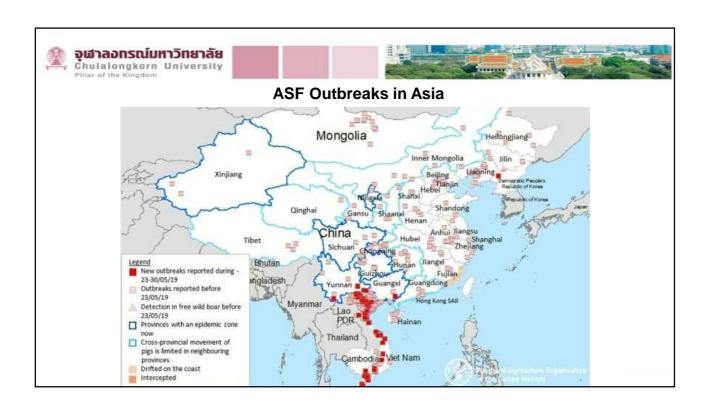


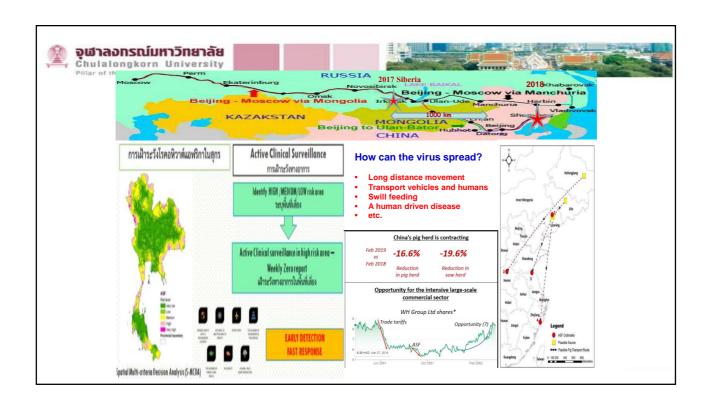


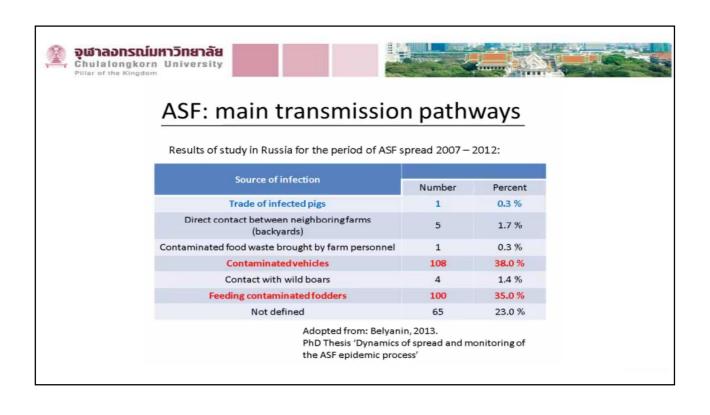


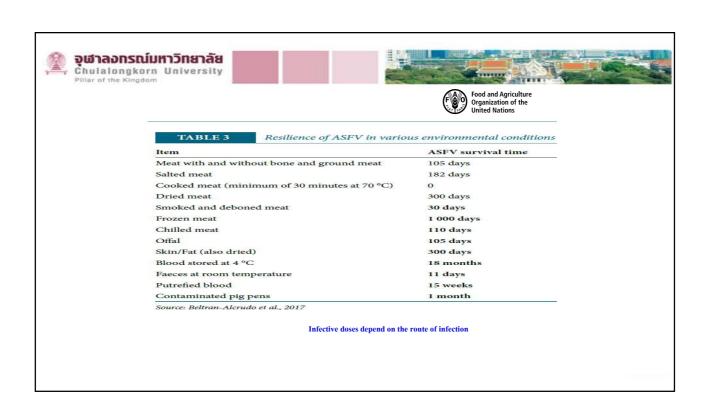
HI1 HP Inc., 5/3/2562

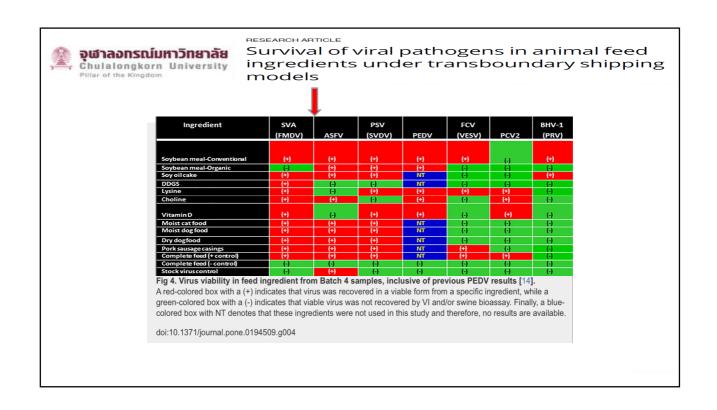










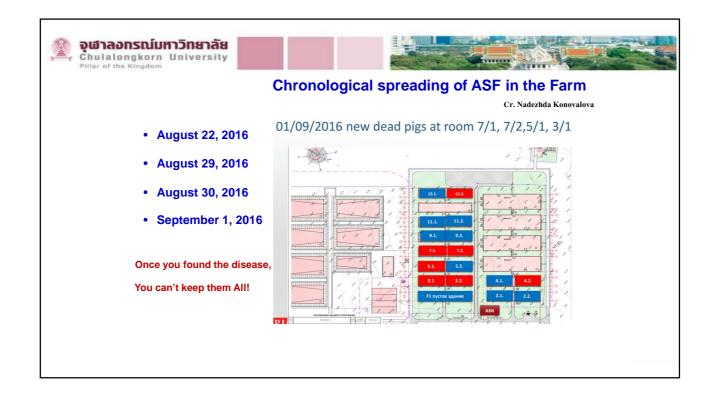


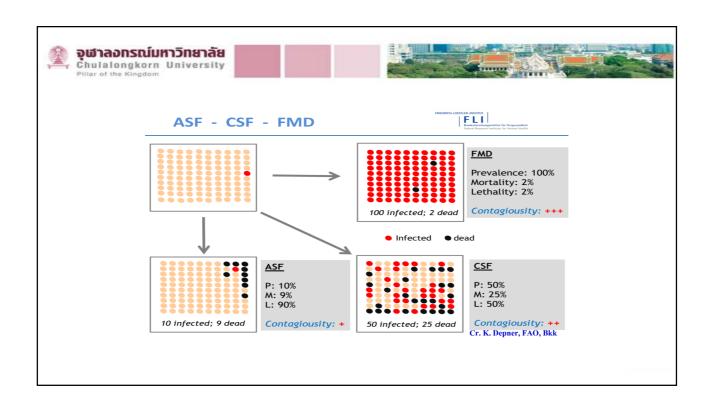


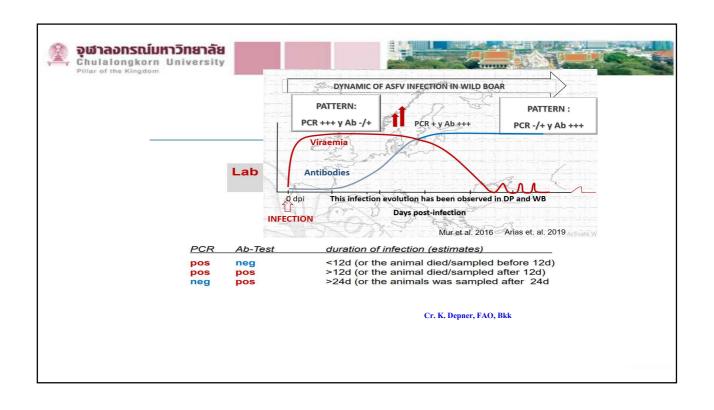
What have we learned from China? (Positive Samples)

- Dried porcine plasma
- · Pellet feed & Swill feeding
- · Meat products in the feed mill kitchen
- Raw materials (Corn, Soybean meal, wheat etc.)
- Employee cloths, boots etc.
- Truck surface & tires of the feed mill
- Road outside of the pig farms
- Ground surface of the feed mill & slaughter houses
- · Outside of disinfectant boxes

Cr. Jason Yan

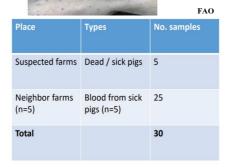


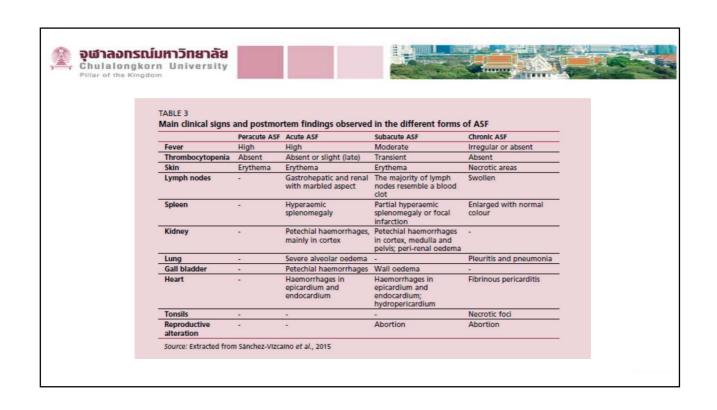




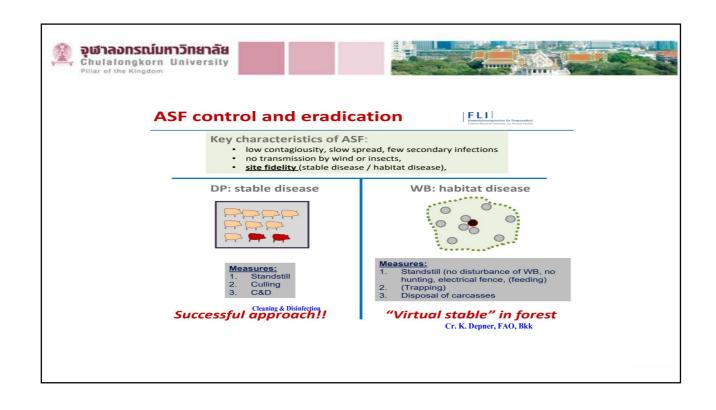


- · Inguinal lymph node
- If dead pigs<5, collect blood from sick pigs
- Neighbor farms
 - Collect blood samples from 5 sick pigs
 - · Serum or plasma
 - If sick pigs<5, no need to collect 5 samples















ASF Take home messages?

Suspicion of ASF

Diagnosis confirmed (Differential Dx)

- Quarantine
 - Entire herd
 - Strict enforcement
 - · Authorities notified
- Disposal of carcasses
 - Burial
 - Burning

The sooner you found the disease, The better you can control successfully!!



Why NO vaccine for ASFV?

Large complex virus with many proteins (60-185 encoded) Inactivated / passaged virus does not protect Vaccine candidate antigens (viral proteins) do not protect Vaccine trials require high containment facilities - expensive Largely African problem (in past) - lack of commercial market. Few groups involved in research – USA example

Cr. Chris Oura, 2018



More research is needed!

Possible ASF vaccine tested on wild boars in Spain

Vaccine created using serum from wild boar that tested positive for ASF

China to Start ASF Vaccine Clinical Trials, **Experts Share Caution**

Scientists Say Don't Get Too Excited!
Jennifer Shike

f D P