# Biological relevance

- CLEC5A interacts with HA of IAV
- Promotes a pro-inflammatory response
- *CLEC5A*$^{-/-}$ mice have improved survival vs WT under IAV challenge
- Could a similar mechanism be at play in these pigs?
  - i.e. lower levels of CLEC5A —> less inflammation —> less pathology —> increased survival

Teng et al 2017 doi:10.1128/JVI.01813-16

# Conclusions

- eQTL analysis identified **298 SNVs associated with altered hepatic expression** of 19 innate immune genes in pigs.
- **28 eQTLs were found to be associated with infectious diseases in pigs**.
  - Both increased and decreased hepatic expression of innate immune genes was associated with different infectious diseases.
  - These alleles are potential indicators of infectious disease resistance in pigs, and warrant further investigation.

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