

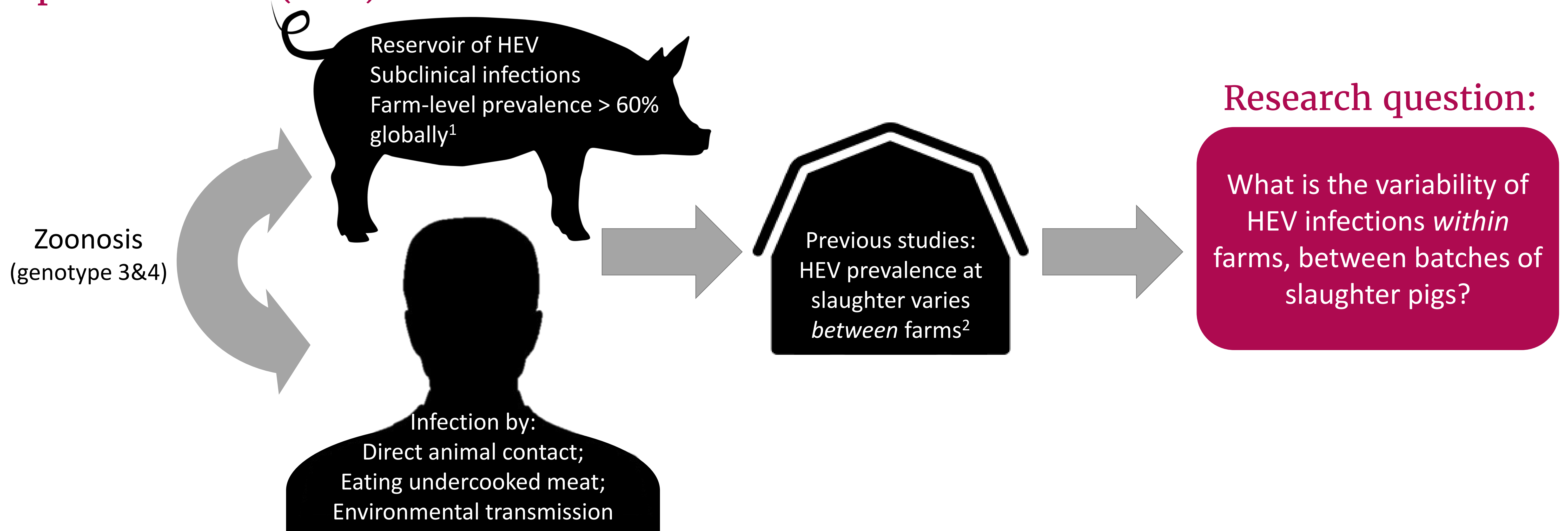
Between batch variability of hepatitis E virus infections in slaughter pigs points to future farm interventions

M. Meester¹, T.J. Tobias¹, M. Bouwknecht², W.H.M. van der Poel³, J.A. Stegeman¹

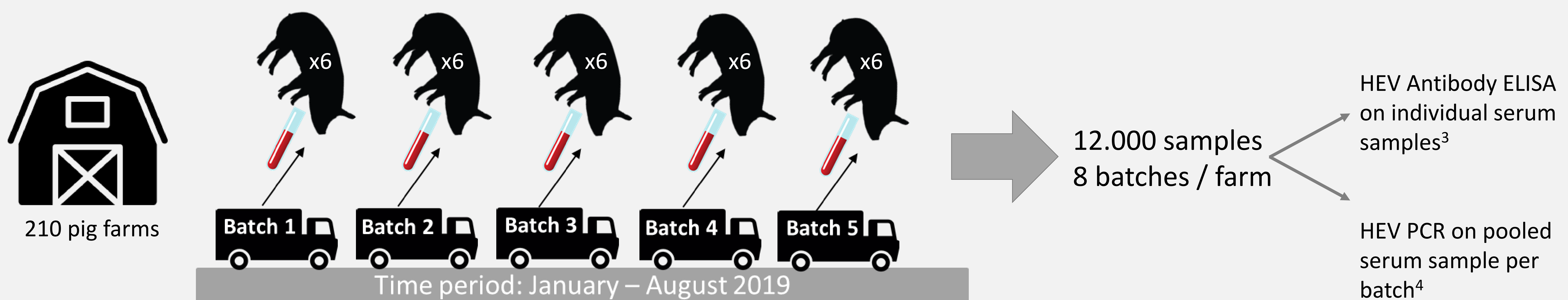
1: UU/FVM/PHS/FAH Utrecht; 2: Vion Food Group Boxtel; 3: Wageningen Bioveterinary Research Lelystad



Hepatitis E virus (HEV):

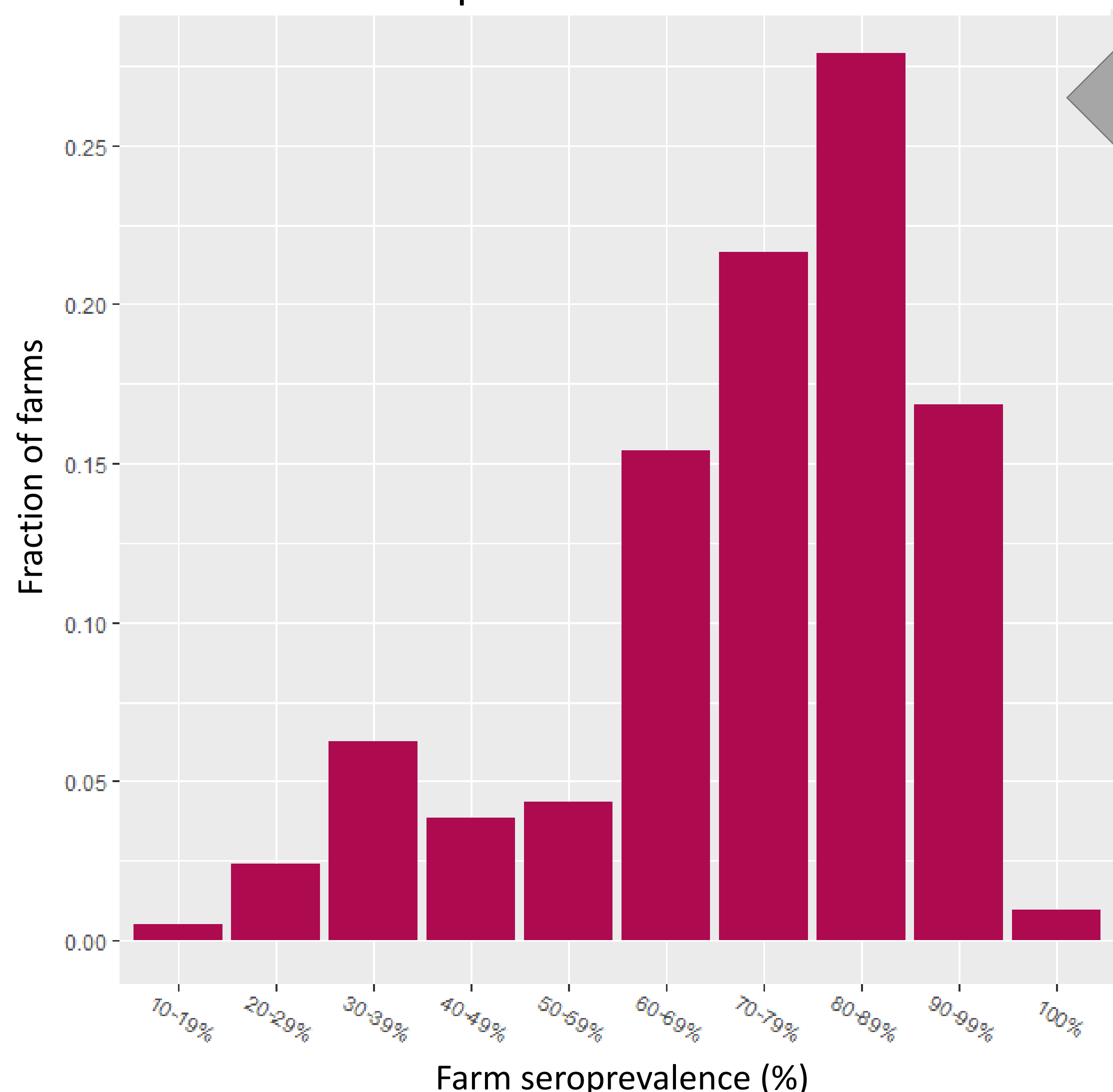


Methods: repeated cross-sectional sampling of batches of pigs delivered to slaughter



Results & Conclusion:

Within-farm seroprevalence

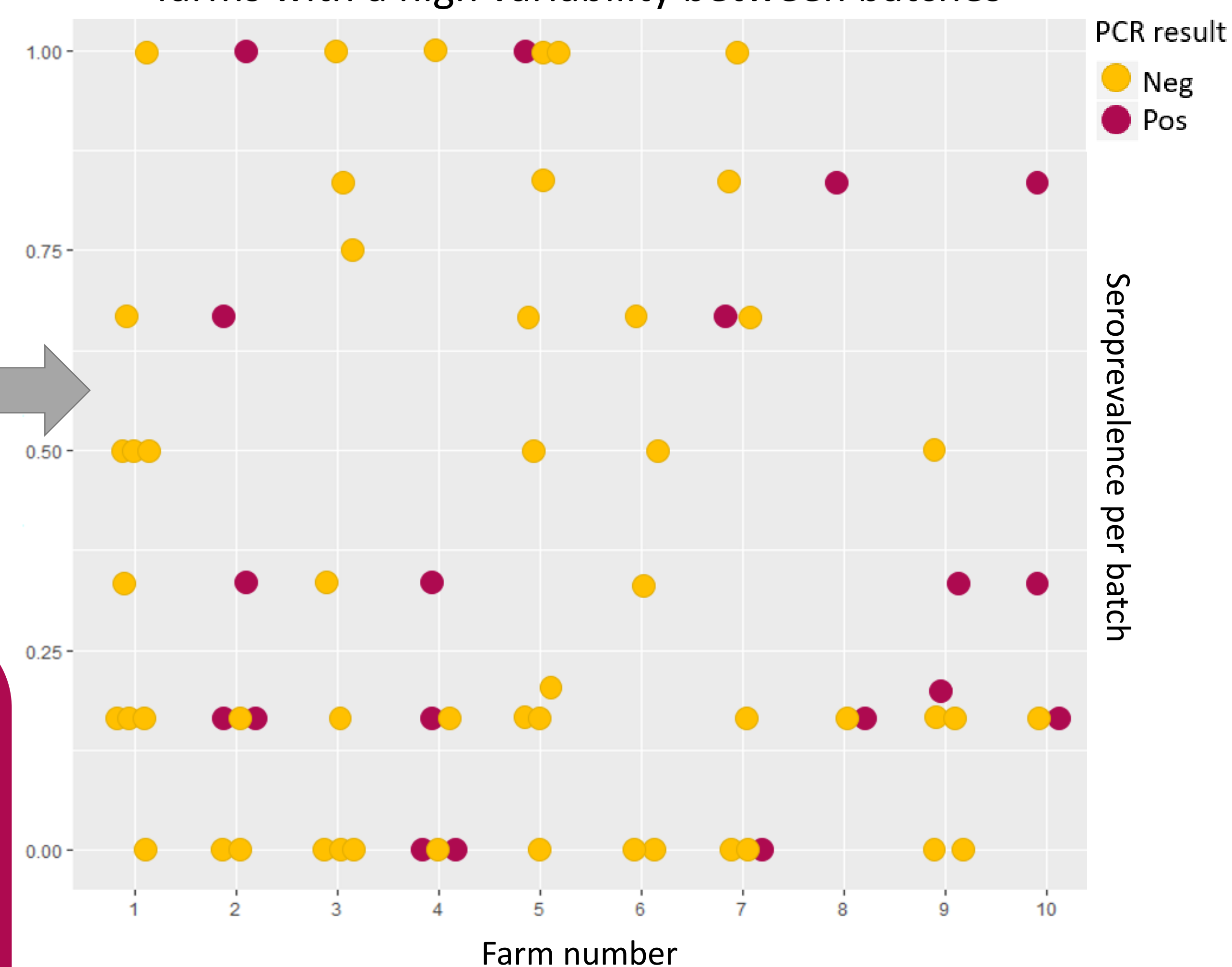


Overall seroprevalence 73.6% (IQR 64.3-83.9%).
Little variability on farm level.
Zero HEV-free farms.

Large variation in ~10% of the farms, with batches that are free from HEV and batches with high proportion seropositive samples ($\geq 5/6$).

High variability between batches suggests that HEV transmission is manageable within farms and points to future interventions to lower HEV infections in pigs and reduce the risk of human exposure.

ELISA and PCR results on batch level of 10 selected farms with a high variability between batches



References:

- Salines et al. 2017 Vet Res.
- Rutjes et al. 2014 J Food Prot.
- Van der Poel et al. 2014 Braz J Med Biol Res.
- Jothikumar et al. 2006 J Virol Methods