



Andrew R. Kick



Deciphering Immunosuppression and Immunological Memory in Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) Infections

Research emphasis:

Andrew Kick's main research interest is the porcine innate and adaptive immune response to PRRSV infection. In particular, he is investigating PRRSV immunosuppression of macrophages and its effect on T-cell memory subset development. Additionally, he is investigating how porcine memory T-cell subsets develop and respond to PRRSV infection and vaccination. Ultimately, he hopes his research determines the memory T-cell correlates of protection in a vaccinated field population exposed to various PRRSV strains.

Applications:

- Porcine model
- Infectious disease
- Innate / adaptive immune systems
- Vaccination studies

Research Strengths:

- Flow cytometry
- Cell culture
- Cortisol radioimmunoassays
- qPCR

Publications and Abstracts:

Kick, A. R., Tompkins, M. B., Flowers, W. L., Whisnant, C. S., & Almond, G. W. (2012). Effects of stress associated with weaning on the adaptive immune system in pigs. *Journal of animal science*, 90(2), 649-656.

Kick, A. R., Tompkins, M. B., & Almond, G. W. (2012). Stress and immunity in the pig. *Animal Science Reviews* 2011, 51.

Kick, A. R., Tompkins, M. B., Mark Hammer, J., Routh, P. A., & Almond, G. W. (2011). Evaluation of peripheral lymphocytes after weaning and vaccination for *Mycoplasma hyopneumoniae*. *Research in veterinary science*, 91(3), e68-e72.

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