



Kathryn Polkoff



Transgenic Livestock and Translational Medicine

Research emphasis:

Research interests include the use of stem cells for regenerative medicine and the development of transgenic livestock as a translational model for the study of molecular and cellular therapies.

Applications:

- Porcine model
- Stem cells
- Gene editing for biomedical modeling

Research Strengths:

- CRISPR/Cas9 mediated gene editing
- Mammalian cell culture

Publications and Abstracts:

Polkoff, K.M., Lotti, S.N., Beever, J.E., Wheeler, M.B. (2017). CRISPR/Cas9 Mediated Repair of the NHLRC2 locus in Beef Cattle. *Reproduction, Fertility and Development*, 29, 212.

Lotti, S.N., **Polkoff, K.M.**, Rubessa, M., and Wheeler, M.B. (2017). Modification of the Genome of Domestic Animals. *Animal Biotechnology*, 1-13.

Rubessa, M., **Polkoff, K.**, Bionaz, M., Monaco, E., Milner, D.J., Hollister, S.J., Goldwasser, M.S., and Wheeler, M.B. (2017). The Use of the Pig as a Model for Mesenchymal Stem Cell Therapies for Bone Regeneration. *Animal Biotechnology*, 1-13.

Polkoff, K.M., Rubessa, M., Winters, R., Lopez, N., Wheeler, M.B. (2016). Comparison of Two Embedding Systems for Follicular Culture. *Reproduction, Fertility and Development*, 28, 196.

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