



Rachel Gagliardi



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Title: Novel Therapies to Prevent the Onset of Osteoarthritis

Research Emphasis:

Ms. Gagliardi's research interests include equine osteoarthritis and joint lubrication as well as regenerative therapies to heal tendon and ligament injuries. Specifically, Ms. Gagliardi is focused on early interventions to preserve cartilage function and synovial fluid composition following traumatic injury. She is also passionate about validating the post-traumatic equine joint as a translational model for post-traumatic injury in human joints.

Applications:

- Osteoarthritis Therapies
- Equine Model
- Synovial Fluid Derangements

Research Strengths:

- Cell culture
- Synovial Fluid Characterization
- Histological Analysis

Abstracts:

Gagliardi R, Robert Murray, Wei Zhang, Kellie Kroscher, Robert Rhoads, Chad Stahl. *Dietary protein impacts neonatal piglet muscle growth and protein synthesis.* American Society for Animal Science/Canadian Society for Animal Science International Conference, Vancouver, 2018.

Gagliardi R, Jin Su, Bridgette Peal, Heidi Reesink. *The Effects of Glucose Concentration on Hyaluronic Acid Synthesis by Synovial Fibroblasts.* Cornell University Biological and Biomedical Sciences Symposium, Ithaca, 2017.

Gagliardi R, Wei Zhang, Robert Murray, Lidan Zhao, Kellie Kroscher, Robert Rhoads, Chad Stahl. *Transcriptional regulation of genes involved in calcium and phosphate metabolism in neonatal pigs fed with different levels of dietary calcium and phosphate supplements.* American Society for Animal Science National Conference, Baltimore, 2017.