



Leandi Krüger



Graduate Research Assistant

### Porcine Model of Esophageal Injury and Repair

#### Research emphasis:

Ms. Krüger's research interests are in the development of translational large animal models. In particular, she utilizes a porcine model to study acute injury in the esophagus in order to elucidate stem cell populations and repair mechanisms post-injury. She hopes to translate her findings into a better understanding of acute and chronic injury in the human esophagus and how misrepair can lead to diseases such as Barrett's Esophagus and Esophageal Adenocarcinoma.

#### Applications:

- Large animal models
- Esophageal stem cells
- Epithelial injury and repair
- Cancer

#### Research Strengths:

- Immunohistochemistry
- Large animal models
- Western blot
- Quantitative PCR

#### Publications and Abstracts:

**Krüger L**, Gonzalez LM; von Furstenberg, RJ; Henning SJ, Blikslager A, Garman KS. "Ductular and Proliferative Response of Esophageal Submucosal Glands in a Porcine Model of Esophageal Injury and Repair." Poster Presentation, [Digestive Disease Week 2016](#), [CGIBD Research Symposium 2016](#), [College of Veterinary Medicine Annual Research Forum 2016](#).

Garman KS, **Krüger L**, Thomas S, Swiderska-Syn M, Moser BK, Diehl AM, McCall SJ. Ductal metaplasia in oesophageal submucosal glands is associated with inflammation and oesophageal adenocarcinoma. [Histopathology](#). 2015 Apr.

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