NC STATE UNIVERSITY

Comparative Medicine Institute

Anthony Blikslager

Professor of Surgery
and Gastroenterology

Education
BS, Biochemistry, Virginia Tech
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Gastrointestinal Repair and Regeneration

Research emphasis:

Dr. Blikslager's research concerns the mechanisms by which the gut repairs and regenerates following injury, including ischemia/ reperfusion injury, ulceration, and inflammatory insult. The gut barrier has become an area of particular interest, with focused studies on how it re-seals following injury, and how it modulates diffusion of molecules present in the gut lumen. Additional studies have also assessed how best to treat animals in pain because of intestinal disease while facilitating recovery of the intestinal tract.

Application:

- Treatment of gastrointestinal disease
- Models of intestinal injury
- Understanding gut barrier function

Collaboration potential:

- Intestinal ischemia/reperfusion injury
- Inflammatory bowel disease
- Drug delivery and the intestine
- Treatment of gut-related pain and inflammation

Selected publications:

Jin Y, Pridgen TA, Blikslager AT. Pharmaceutical Activation or Genetic Absence of ClC-2 Alters Tight Junctions During Experimental Colitis. Inflamm Bowel Dis 2015;21:2747-57

Jin Y, Blikslager AT. ClC-2 regulation of intestinal barrier function: Translation of basic science to therapeutic target. Tissue Barriers 2015;3:e1105906.

Gonzalez LM, Moeser AJ, Blikslager AT. Animal models of ischemia-reperfusion-induced intestinal injury: progress and promise for translational research. Am J Physiol Gastrointest Liver Physiol 2015;308:G63-G75

Hill, T, Lascelles BD, Law M, Blikslager AT. The effect of tramadol and indomethacin co-administration on gastric barrier function in dogs. J Vet Intern Med, 2014;28:793-8