

Gookin Laboratory GI Pathophysiology and Mucosal Biology Publications

1. Foster DM, Stauffer SH, Stone MC, **Gookin JL**. Proteasome Inhibition of Pathologic Shedding of Enterocytes to Defend Barrier Function Requires X-linked Inhibitor of Apoptosis Protein and Nuclear Factor- κ B. *Gastroenterology* 2012;143:133-144. **Selected for feature on the cover of the Journal.**
2. Wood MW, Breitschwerdt EB, Nordone SK, Linder KE, **Gookin JL**. Uropathogenic *E. coli* promote a paracellular urothelial barrier defect characterized by altered tight junction integrity, epithelial cell sloughing and cytokine release. *J Comp Pathol* 2012;147:11-19. **Recognized by American College of Veterinary Internal Medicine as one of the top 3 manuscripts published in Veterinary Nephrology in 2012.**
3. Azcarate-Peril MA, Foster DM, Cadenas MB, Stone MR, Jacobi SK, Stauffer SH, Pease A, **Gookin JL**. Acute necrotizing enterocolitis of preterm piglets is characterized by dysbiosis of ileal mucosa-associated bacteria. *Gut Microbes* 2011;2:234-243.
4. Wood MW, Breitschwerdt EB, **Gookin JL**. Autocrine effects of interleukin-6 mediate acute-phase pro-inflammatory and tissue reparative transcriptional responses of canine bladder mucosa. *Infection and Immunity* 2011;79:708-715.
5. Nordone SK, **Gookin JL**. Lymphocytes and not IFN γ mediate expression of iNOS by intestinal epithelium in murine cryptosporidiosis. *Parasitol Res* 2010;106:1507-1511.
6. **Gookin JL**, Stauffer SH, Coccato MR. Induction of arginase-II by intestinal epithelium promotes the uptake of L-arginine from the lumen of *C. parvum* infected porcine ileum. *J Pediatr Gastroenterol Nutr* 2008;47:417-27.
7. **Gookin JL**, Foster DM, Coccato MR, Stauffer SH. Oral delivery of L-arginine stimulates prostaglandin-dependent secretory diarrhea in *C. parvum* infected neonatal piglets. *J Pediatr Gastroenterol Nutr* 2008;46:139-146.
8. Van Itallie CM, Holmes J, Bridges A, **Gookin JL**, Coccato MR, Proctor W, Colegio O, Anderson JM. The density of small tight junction pores varies among cell types and is increased by expression of claudin-2. *J Cell Sci* 2008;121:298-305.
9. Zadrozny LM, Stauffer SH, Armstrong MU, Jones SL, **Gookin JL**. Neutrophils do not mediate the pathophysiological sequelae of *C. parvum* infection in neonatal piglets. *Infect Immun* 2006; 74:5497-5505.
10. **Gookin JL**, Chiang S, Allen J, Armstrong MU, Stauffer S, Finnegan C, and Murtaugh MP. NF- κ B-mediated expression of iNOS promotes defense against epithelial infection by *C. parvum* in neonatal piglets. *Am J Physiol*; 2006; 290:G164-174.
11. **Gookin JL**, Allen J, Chiang S, Duckett L, and Armstrong MU. Local peroxynitrite formation contributes to early control of *Cryptosporidium parvum* infection. *Infect Immun*; 2005;73:3929-3936.

12. **Gookin JL**, Duckett LL, Armstrong MU, Stauffer SH, Finnegan CP, Murtaugh MP, and Argenzio RA. Nitric oxide synthase stimulates prostaglandin synthesis and barrier function in *C. parvum* infected porcine ileum. *Am J Physiol*; 2004;287:G571-G581.
13. Rhoads JM, Chen W, **Gookin JL**, Wu GY, Fu Q, Blikslager AT, Rippe RA, Argenzio RA, Cance WG, Weaver EM, Romer LH. L-arginine stimulates intestinal cell migration through a focal adhesion kinase dependent mechanism. *Gut* 2004;53:514-522.
14. **Gookin JL**, Galanko JA, Blikslager AT, Argenzio RA. Prostaglandin-mediated closure of paracellular pathway and not restitution is the primary determinant of barrier recovery in acutely injured porcine ileum. *Am J Physiol* 2003;285:G967-G979.
15. Cole JT, Blikslager AT, Hunt E, **Gookin JL**, Argenzio RA. Cyclooxygenase blockade and exogenous glutamine enhance sodium absorption in infected bovine ileum. *Am J Physiol* 2003;284:G516-524.
16. Cole JT, **Gookin JL**, Gayle JM, Eisemann JH, Argenzio RA, Blikslager AT. Endoscopy via a gastric cannula to monitor the development of ulcers in the pars esophagea in pigs after consumption of a finely ground feed combined with a period of withholding of feed. *Am J Vet Res* 2002;63:1076-1082.
17. **Gookin JL**, Rhoads JM, Argenzio RA. Inducible nitric oxide synthase mediates early epithelial repair of porcine ileum. *Am J Physiol* 2002; 283:G157-G168.
18. **Gookin JL**, Kapil SJ, Argenzio RA. Host response to *Cryptosporidium* infection. *J Vet Intern Med* 2002;16:12-21.