

Article

FGF21 Depletion Attenuates Colitis through Intestinal Epithelial IL-22-STAT3 Activation in Mice

Liming Liu ^{1,2}, Fengyuan Li ^{2,3}, Tuo Shao ², Lihua Zhang ², Jiyeon Lee ^{2,3}, Gerald Dryden ², Craig J. McClain ^{2,3,4,5,6}, Cuiqing Zhao ^{1,2,*} and Wenke Feng ^{2,3,4,5,*}

¹ College of Animal Science and Technology, Jilin Agricultural Science and Technology University, Jilin 132101, China; aliuliming1984@126.com

² Department of Medicine, University of Louisville, Louisville, KY 40202, USA; fengyuan.li@louisville.edu (F.L.); tuoshao89@gmail.com (T.S.); lihua.zhang@louisville.edu (L.Z.); jiyeon.lee@louisville.edu (J.L.); gerald.dryden@louisville.edu (G.D.); craig.mcclain@louisville.edu (C.J.M.)

³ Department of Pharmacology & Toxicology, University of Louisville, Louisville, KY 40202, USA

⁴ Hepatobiology & Toxicology Center, University of Louisville, Louisville, KY 40202, USA

⁵ Alcohol Research Center, University of Louisville, Louisville, KY 40202, USA

⁶ Robley Rex VA Medical Center, Louisville, KY 40206, USA

* Correspondence: yuqing53@163.com (C.Z.); wenke.feng@louisville.edu (W.F.); Tel.: +86-0432-6470-3108 (C.Z.); +1-502-852-2920 (W.F.)

Supplementary Figures

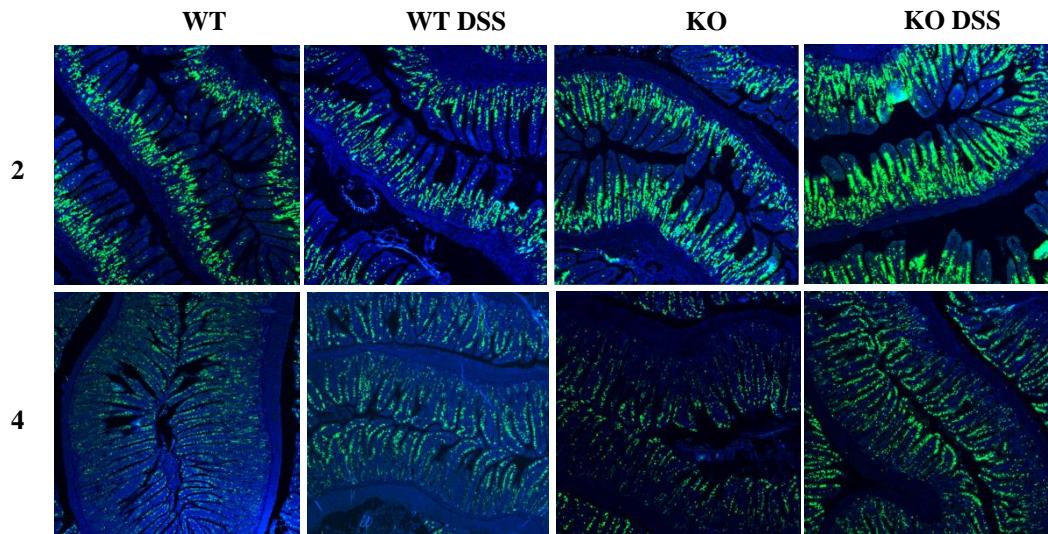


Figure S1. FGF21 KO mice display enhanced intestinal epithelial cell proliferation responses upon DSS treatment. Representative BrdU staining of colonic tissues.

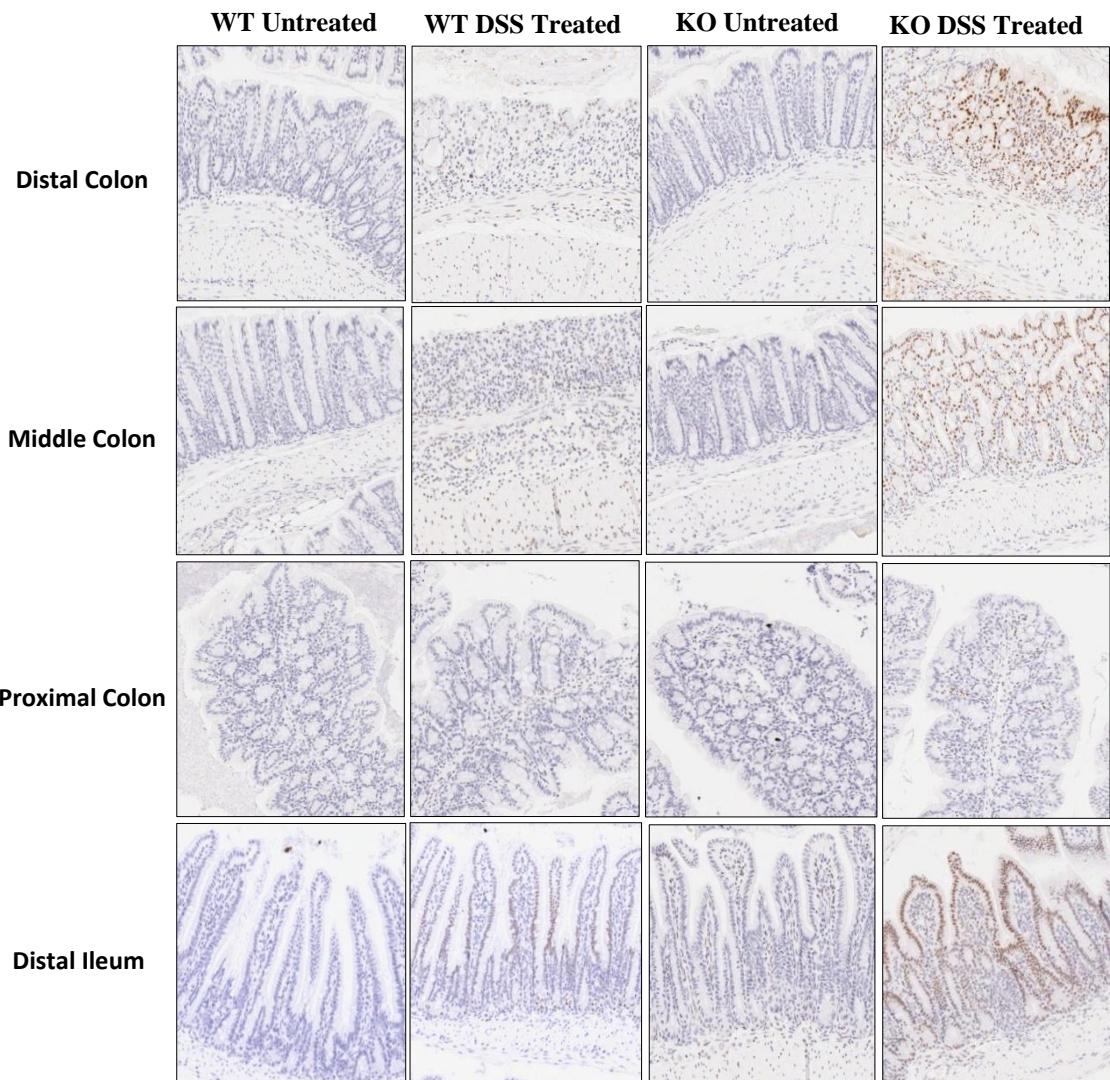


Figure S2. DSS treatment enhances mucosal expression of phosphor-Stat3 in FGF21 KO mice. WT and FGF21 KO mice were either untreated or treated with 2.5% DSS for 7 days.

(A) Immunohistochemical analysis of phophos-Stat3 (p-Stat3) of the colonic and ileal tissue.