

SUPPLEMENTAL INFORMATION

Chronic Stress and Corticosterone Exacerbate Alcohol-Induced Tissue Injury at the Gut-Liver-Brain Axis

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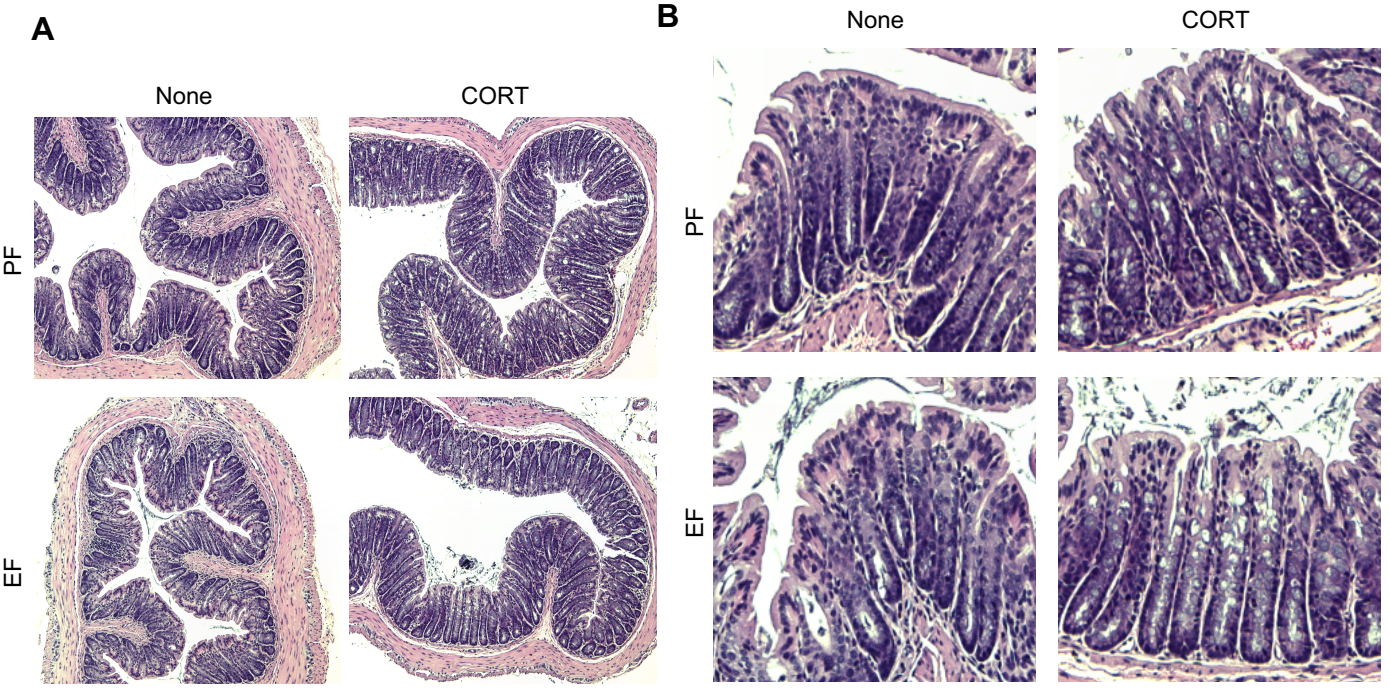


Figure S1
Effects of alcohol and corticosterone on colon.
 Adult mice were fed a liquid diet with (EF) or without (PF) ethanol for four weeks. In some groups, animals were injected with corticosterone (CORT) or vehicle daily. Formaldehyde fixed colonic sections were stained with H & E and imaged by light microscopy at 10x (A) or 40x (B) magnification.

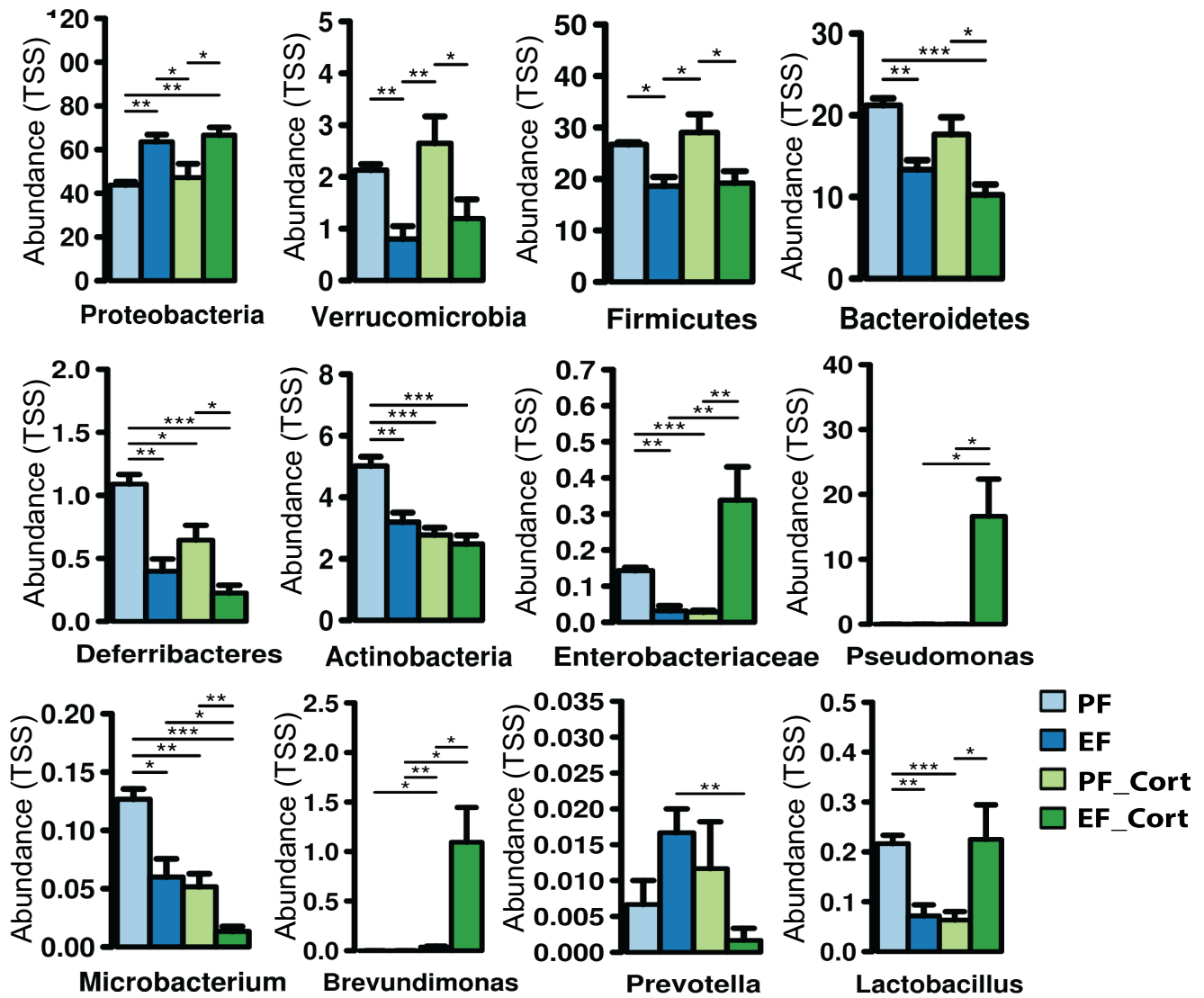


Figure S2: The effects of alcohol and corticosterone on alcohol-induced colonic dysbiosis.

Adult mice were fed a liquid diet with (EF) or without (PF) ethanol for four weeks. In some groups, animals were injected with corticosterone (Cort) daily. Animals in other groups were injected with the carrier. Analysis of data from 16S rRNA-sequencing of fecal samples from different groups of mice is presented. A: relative abundance of different phyla of bacteria. Asterisks indicate significant differences between groups. * P < 0.05; ** P < 0.01; *** P < 0.005.

Table S1: PCR primer sequences	
Gene	5'-3' Sequence
IL-1β	Forward: GCAACTGTTCCCTGAACTCAACT Reverse: ATCTTTTGGGGTCCGTCAACT
IL-6	Forward: TAGTCCTTCCTACCCCAATTTCC Reverse: TTGGTCCTTAGCCACTCCTTC
TNF-α	Forward: CCCTCACACTCAGATCATCTTCT Reverse: GCTACGACGTGGGCTACAG
IL10	Forward: GCTCTTACTGACTGGCATGAG Reverse: CGCAGCTCTAGGAGCATGTG
TLR4	Forward: ATGGCATGGCTTACACCACC Reverse: GAGGCCAATTTTGTCTCCACA
MyD88	Forward: TCATGTTCTCCATACCCTTGGT Reverse: AACTGCGAGTGGGGTCAG
MCP-1/CCL2	Forward: TTAAAAACCTGGATCGGAACCAA Reverse: GCATTAGCTTCAGATTTACGGGT
CCL5/RANTES	Forward: GCTGCTTTGCCTACCTCTCC Reverse: TCGAGTGACAAACACGACTGC
TrkB	Forward: CTGGGGCTTATGCCTGCTG Reverse: AGGCTCAGTACACCAAATCCTA
BDNF	Forward: TCATACTTCGTTGCATGAAGG Reverse: AGACCTCTCGAACCTGCC
GR	Forward: AGCTCCCCTGGTAGAGAC Reverse: GGTGAAGACGCAGAAACCTTG
Crhr1	Forward: GTGGACCCCTAACAACAGTG Reverse: CGGGAAGACACGCGATTATCA
GAPDH	Forward: CTGCACCACCAACTGCTTAG Reverse: GGGCCATCCACAGTCTTCT