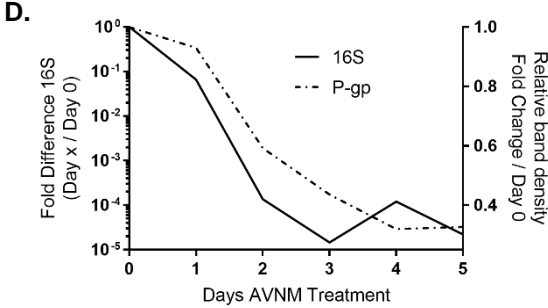
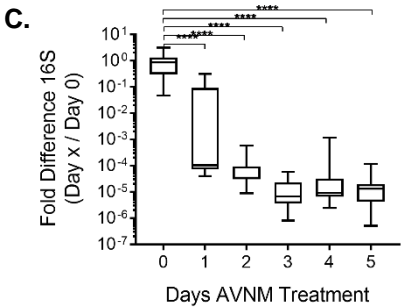
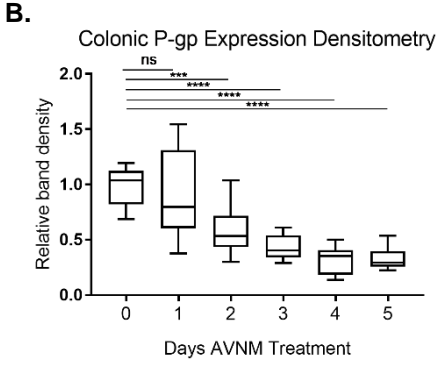
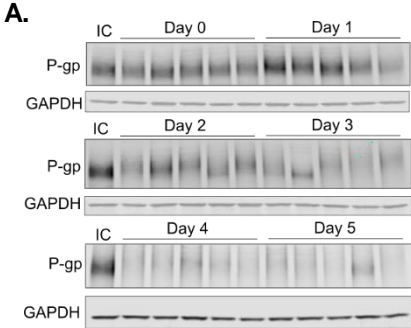
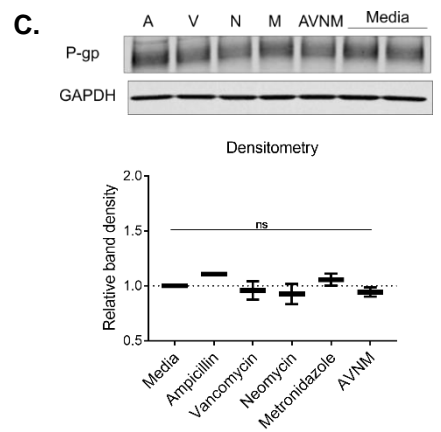
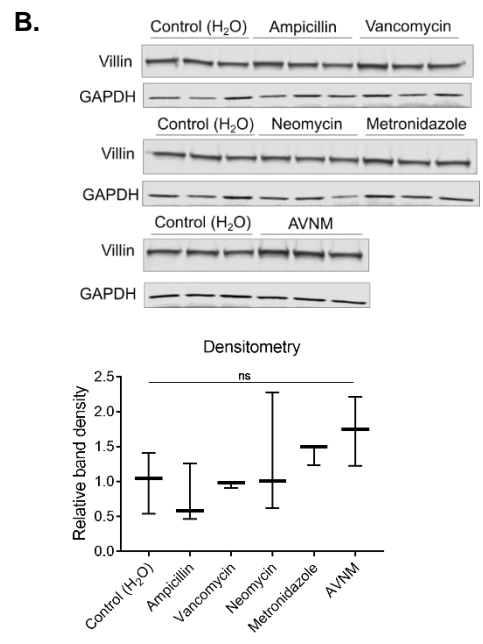
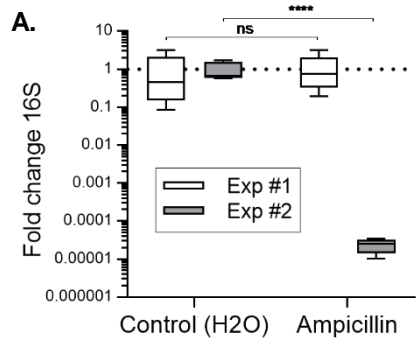


Supplementary Figure 1.

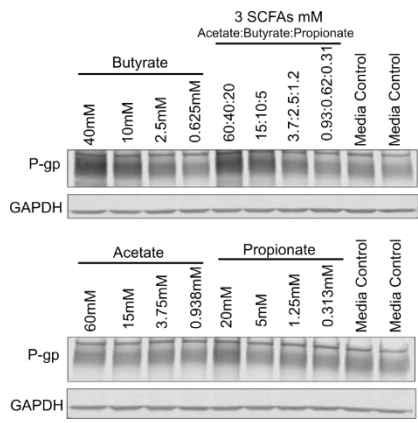


Supplementary Figure 2.

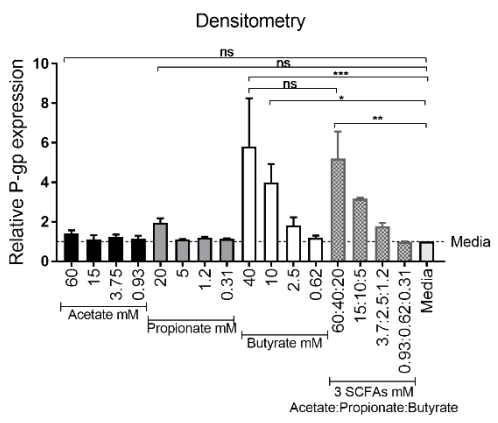


Supplementary Figure 3.

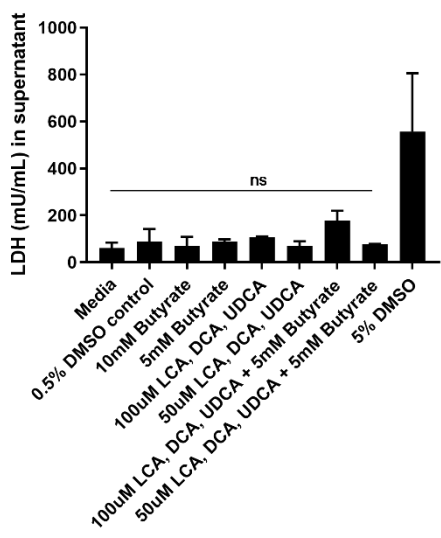
A.



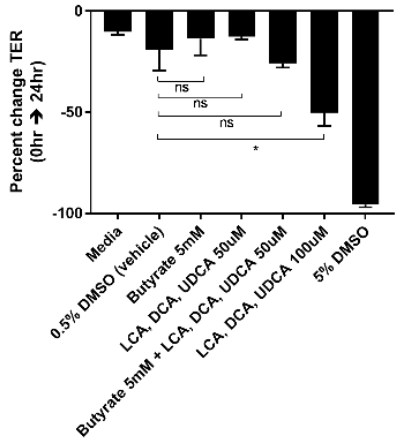
B.



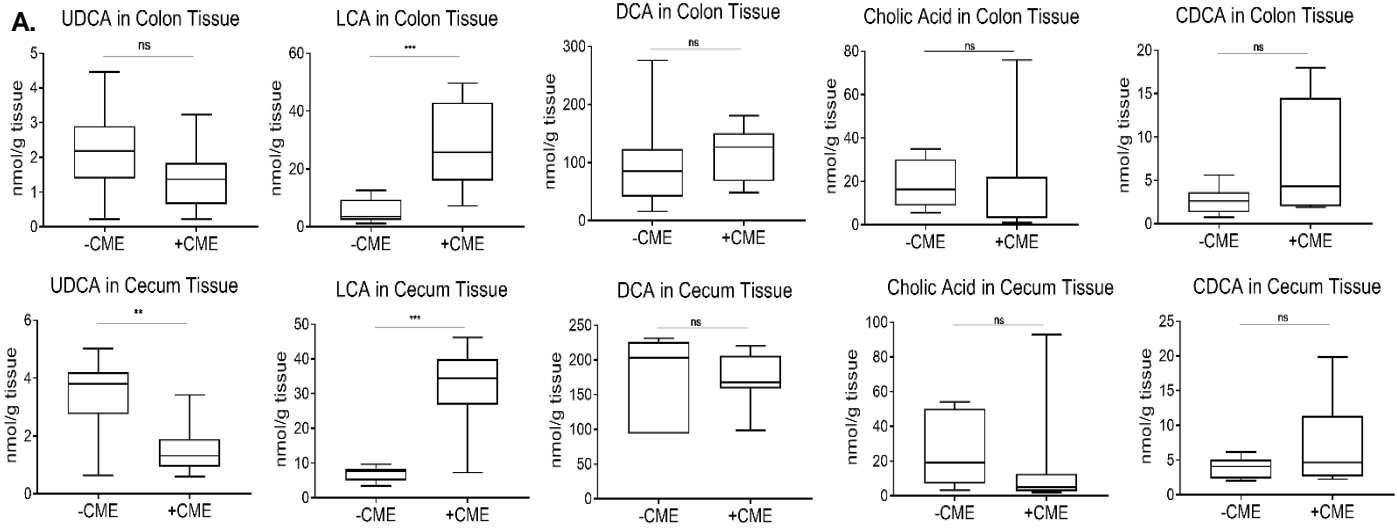
C.



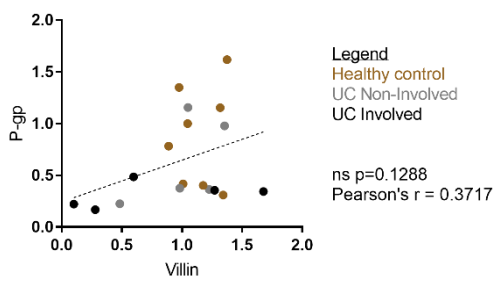
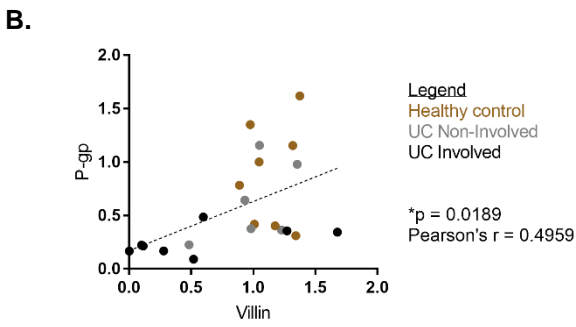
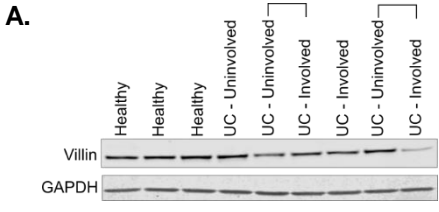
D.



Supplementary Figure 4.



Supplementary Figure 5.



Supplementary Table 1

Phylum	Class	Order	Family	Genus	pvalues	rhovalues
Actinobacteria	Actinobacteria	Bifidobacteriales	Bifidobacteriaceae	Bifidobacterium	0.166884188	0.222865382
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides	0.500314679	-0.109380863
Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Odoribacter	0.347564815	-0.152484311
Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Parabacteroides	0.558859343	-0.095232715
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	Alistipes	0.067362036	0.292147744
Bacteroidetes	Sphingobacteriia	Sphingobacteriales	Sphingobacteriaceae	Pedobacter	0.120764092	-0.249339167
Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	0.000222592	0.551919425
Firmicutes	Clostridia	Clostridiales	Eubacteriaceae	Eubacterium	0.077787779	0.282111008
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia	0.031229478	0.34112605
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Butyrivibrio	0.189857936	0.211641113
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Dorea	0.002656691	0.462516629
Firmicutes	Clostridia	Clostridiales	Oscillospiraceae	Oscillibacter	0.001074512	0.498036551
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Anaerotruncus	0.067526704	0.291980007
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Subdoligranulum	0.016713528	0.376268523
Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Mitsuokella	0.079316686	0.280729335
Proteobacteria	Betaproteobacteria	Burkholderiales	Burkholderiales_noname	Burkholderiales_noname	0.755206703	0.050878373
Proteobacteria	Betaproteobacteria	Burkholderiales	Sutterellaceae	Parasutterella	0.231965492	0.193336483
Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae	Enterobacter	0.001327494	-0.490072975
Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae	Escherichia	0.006811505	-0.421099758
Verrucomicrobia	Verrucomicrobiae	Verrucomicrobiales	Verrucomicrobiaceae	Akkermansia	0.468353503	-0.117636023

Supplementary Table 2

	Sex (M/F)	Age (yr)	Diagnosis	Medications past 30 days (ND = no data)	Fecal calprotectin (ug/g feces)*
High inflammation	M	35	UC, pan-colitis	ferrous sulfate, amlodipine, prednisone	3975.1
	M	54	UC	prednisone, azathioprine, amlodipine besylate, furosemide, metoprolol	2870.5
	M	52	UC, pan-colitis	acetaminophen, balsalazide, enoxaparin, famotidine, levothyroxine, melatonin, methylprednisolone IV, ondansetron, tamsulosin, tramadol	1085.3
	M	38	UC**, pan-colitis	None	1005.9
	M	18	UC	melatonin	769.4
	F	35	UC	dicyclomine, mesalamine, multivitamin	552.0
Low inflammation	F	34	UC	NuvaRing, ranitidine, ibuprofen, Colace	39.9
	M	48	UC	metformin, Harvoni, insulin, NovoLog, lisinopril, citaprolam, olanzapine, ReVia, trazodone	8.9
	M	38	UC**	mesalamine, prednisone	7.2
	M	46	UC	nystatin, albuterol, amlodipine, atorvastatin, azathioprine, cholecalciferol, folic acid, hydrochlorothiazide, losartan, metoprolol tartrate, montelukast, omeprazole, ondansetron, prazosin, prednisone, quetiapine, tizanidine, allopurinol	7.4
	F	72	UC	ND	6.2
	F	43	UC	Solu-Medrol, morphine, Zolof, gabapentin, pantoprazole, trazodone, ondansetron, Asacol	4.4
	F	38	UC	betamethasone dipropionate, clonazepam, fluticasone propionate, ibuprofen, sertraline	3.2
	F	76	UC	azathioprine, adalimumab	2.2
No inflammation	M	56	Healthy	ND	21.6
	F	18	Healthy	pantoprazole, Apri	19.3
	F	21	Healthy	None	7.1
	M	58	Healthy	None	6.6
	F	50	Healthy	Zolof, clonazepam	6.6
	F	61	Healthy	metoprolol, naproxen, vitamin d	5.2
	M	37	Healthy	Symbicort, trazodone, albuterol inhaler, fluticasone inhaler	4.4
	F	62	Healthy	lisinopril, glipizide, aspirin, atorvastatin	2.5
	M	37	Healthy	Zolof	2.4
	F	72	Healthy	ND	2.2
	F	40	Healthy	oral contraception	1.7
	F	27	Healthy	ND	1.3
	M	26	Healthy	ND	1.3
	F	64	Healthy	ND	0.9

*Fecal calprotectin determined by ELISA (Buhlmann)

**Same patient, two separate clinic visits