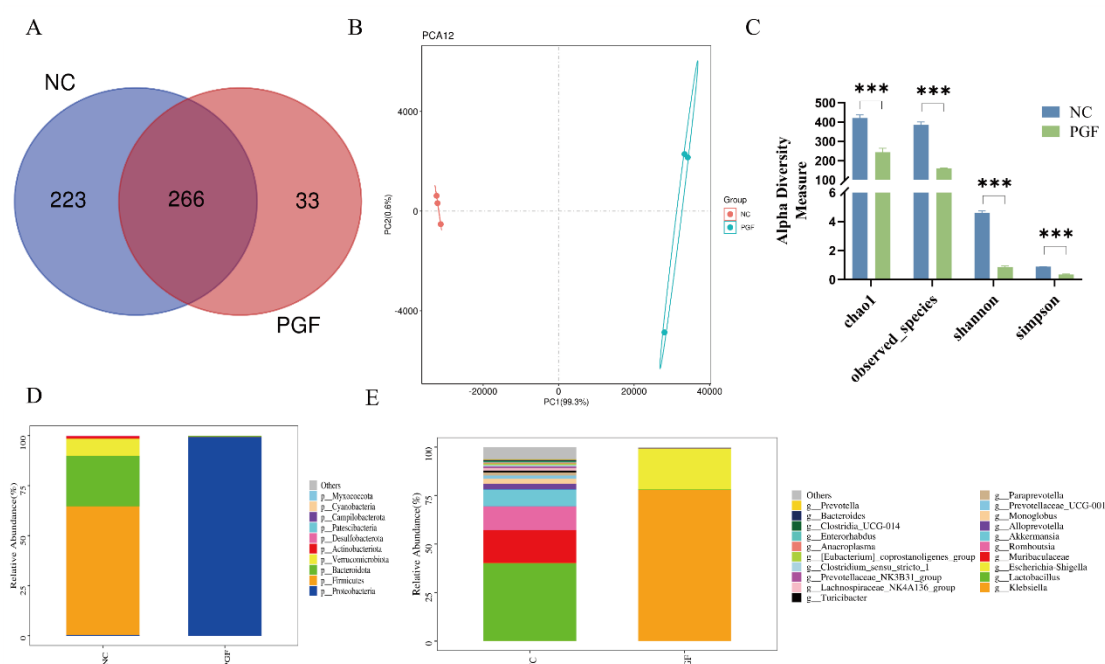


1 **Supplementary tables and figures:**



(A) Venn diagram of the number of OTUs; (B) Principal co-ordinates analysis (PCOA); (C) α -diversity analysis
(D) microbial analysis at the portal level; (E) microbial diversity analysis at the genus level.

$*P < 0.05$, $**P < 0.005$, $***P < 0.001$

Figure S1 Effect of antibiotics on gut microbes

Table S1 Infant and Parent Information

No.	Feeding Type	Gender	Age (Weeks)	Delivery Method
1	Exclusive Breastfeeding	Male	22	C-section
2	Exclusive Breastfeeding	Male	16	C-section
3	Exclusive Breastfeeding	Male	21	Vaginal Birth
4	Exclusive Breastfeeding	Male	25	Vaginal Birth
5	Exclusive Breastfeeding	Male	17	C-section
6	Exclusive Breastfeeding	Male	17	Vaginal Birth
7	Exclusive Breastfeeding	Female	22	Vaginal Birth
8	Exclusive Breastfeeding	Female	20	C-section
9	Exclusive Breastfeeding	Female	16	Vaginal Birth
10	Exclusive Breastfeeding	Female	17	C-section
11	Exclusive Breastfeeding	Female	18	Vaginal Birth
12	Exclusive Breastfeeding	Female	20	C-section

Table S2 Primer sequences for quantitative RT-PCR analysis

Target Gene	Primer Sequence
β -actin	F: CACTATCGGCAATGAGCGGTTTC
	R: GTTGGCATAGAGGTCTTTACGGATG
MUC2	F: TGTGAAGTTGCTGCTGATGAGTG
	R: AAGGTCCTGGTGTCGTGATGG
ZO-1	F: AGAAGCGATTACAGCAGCAACAG
	R: TGACAGGTAGGACAGACGATCATC
Claudin2	F: GCCTTCTTGAGCCTGCTTGTG
	R: CTCGGAACCTGTTTCGCTTGTG