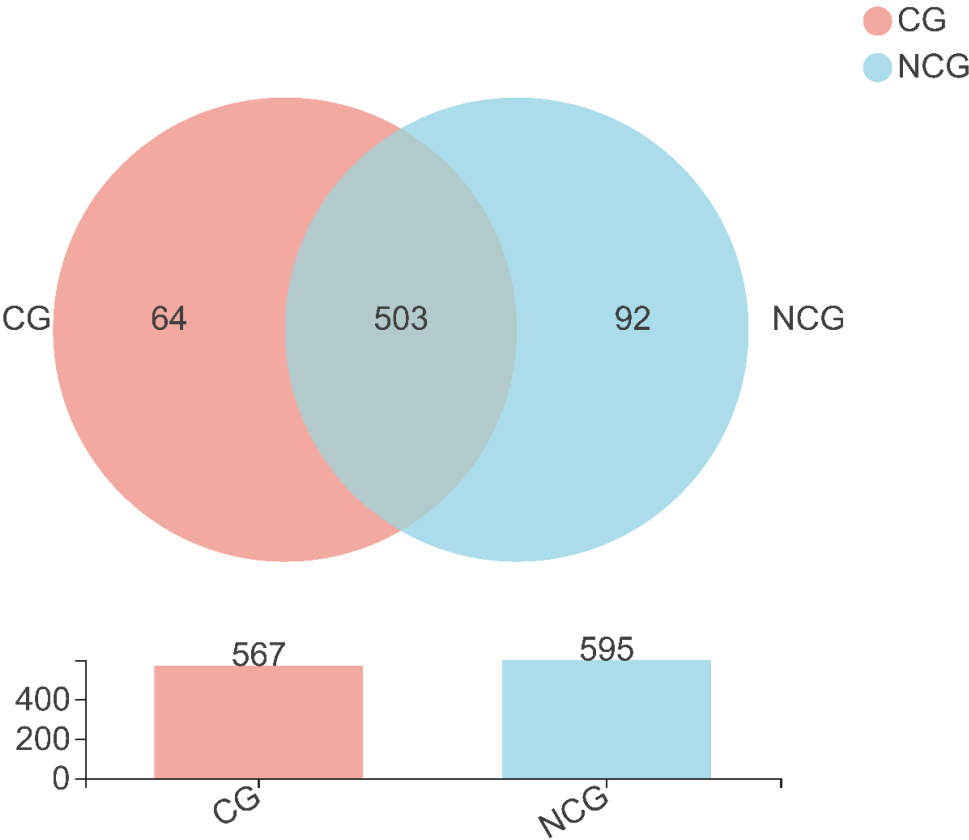


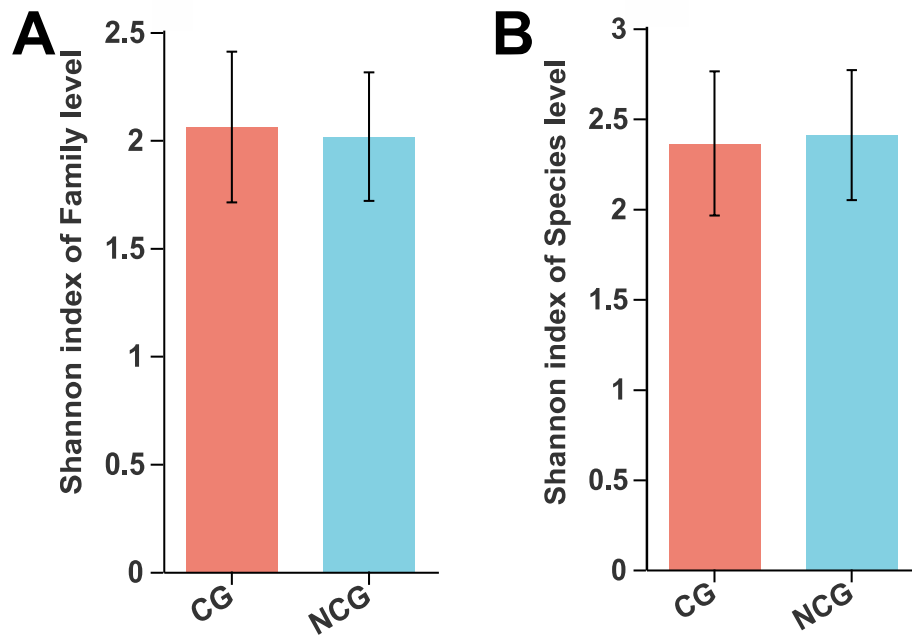
**Supplementary Table S1. Primer sequences of real-time PCR**

Gene Name	Froward primer (5'-3')	Reverse primer (5'-3')
<i>18S rRNA</i>	GATATGCTCATGTGGTGTG	AATCTTCTTCAGTCGCTCCA
<i>SHP</i>	CCCCAAGGAATATGCCTGCC	TAGGGCGAAAGAAGAGGTCCC
<i>FGF19</i>	CCAGAAGACAGGCAGTAGT	CTGGAGGGA TTTGGGAAGG
<i>FXR</i>	AACCATACTCGCAATACAGCAA	ACAGCTCA TCCCCTTTGA TCC

Venn on OTU level



**Supplementary Figure S1.** The richness of bacterium using Venn figure of OTU level between cancerous group and non-cancerous group.



**Supplementary Figure S2.** The  $\alpha$  diversity analysis using Shannon index of Family and Species level between cancerous group and non-cancerous group.