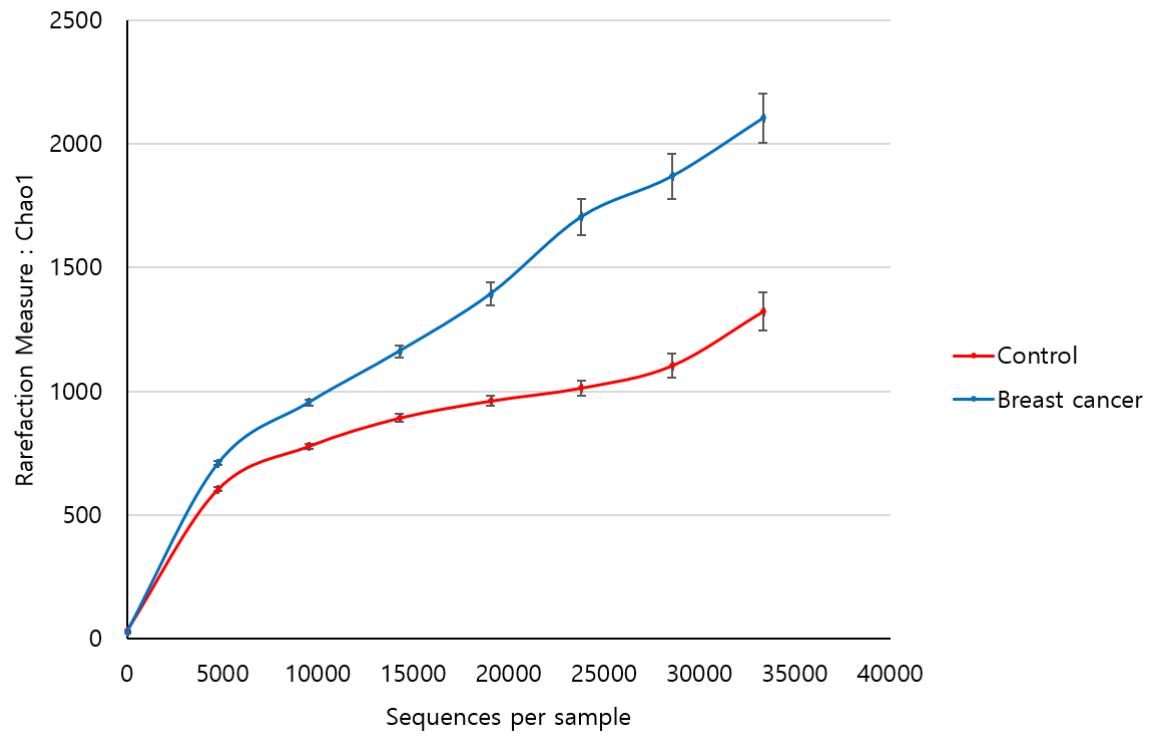
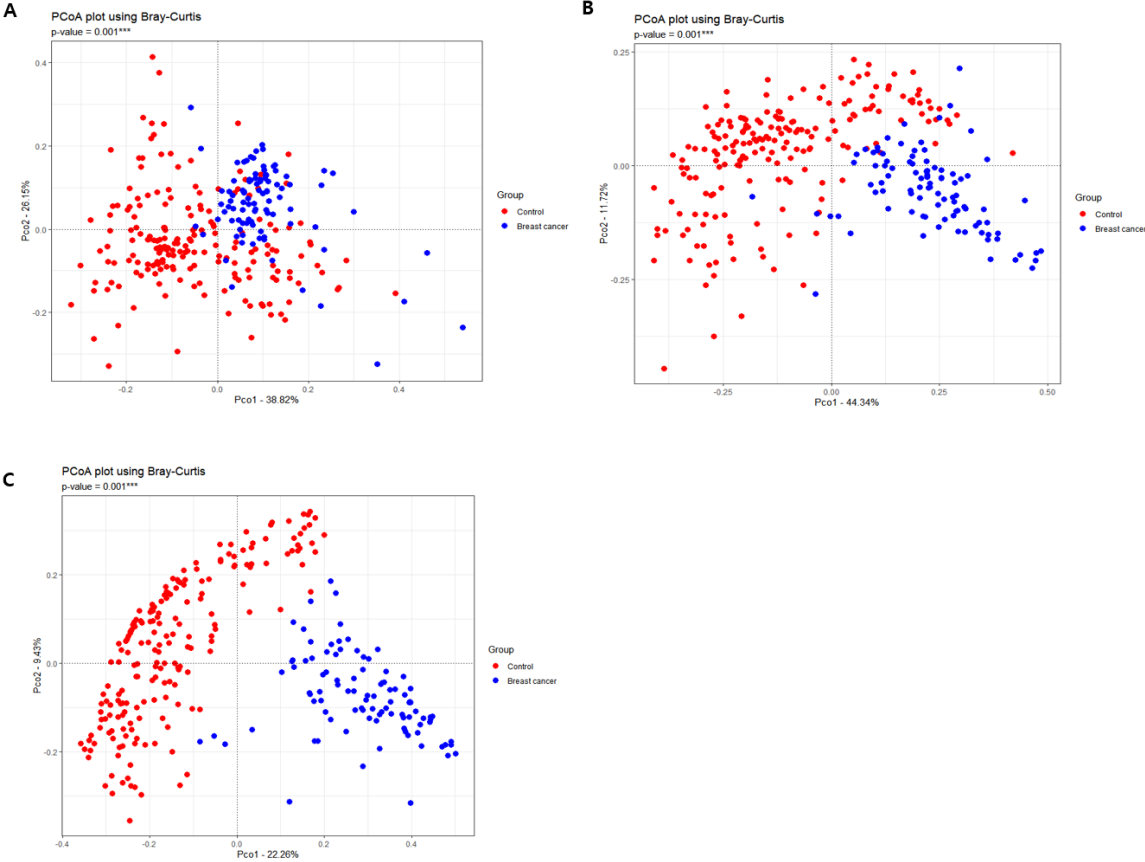


Supplementary Fig 1. Rarefaction curve based on Chao1 index

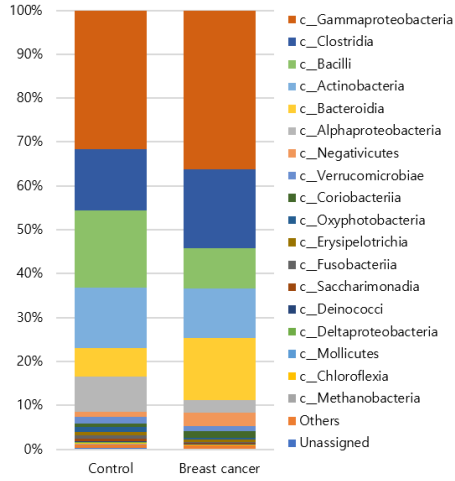


Supplementary Fig 2. Beta diversity based on Principal Coordinate Analysis (PCoA) at the A) class level, B) Order level, and C) Species level

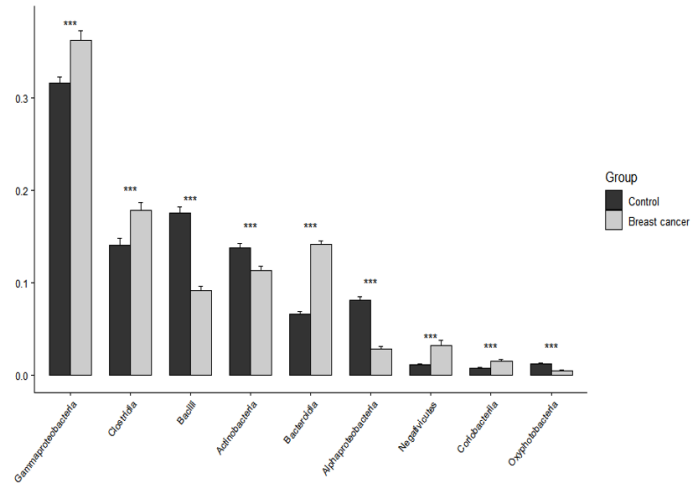


**Supplementary Fig 3. Difference of microbiome in serum between breast cancer patients and healthy controls. A) Composition of microbiome at the class level, b) Significantly different taxa at the class level, C) Composition of microbiome at the order level, D) Significantly different taxa at the order level, and E) Significantly different taxa at the species level**

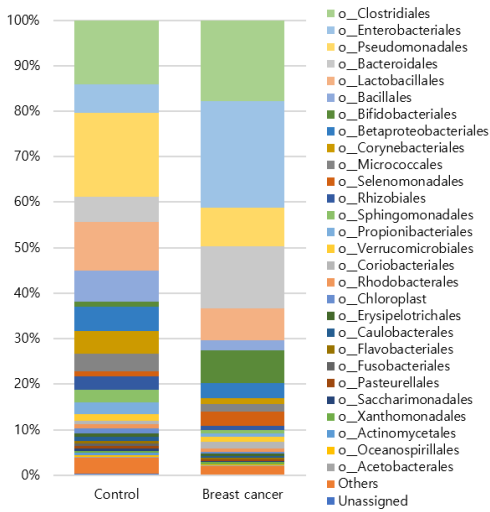
**A**



**B**



**C**



**D**

