

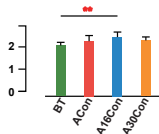
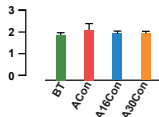
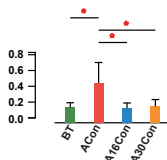
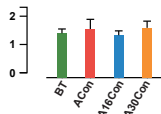
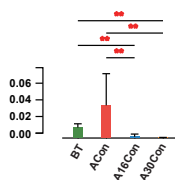
A**Dihydro-orotate****EC1.3.98.1****Orotate****EC 2.4.2.10****Orotidine-5P****EC 4.1.1.23****UMP****B****Thymine****EC 2.4.2.6****Thymidine****EC 2.7.1.21****dTMP**

Fig. S11 Metabolic pathway difference-in-difference analysis on the pyrimidine based on metagenomics data