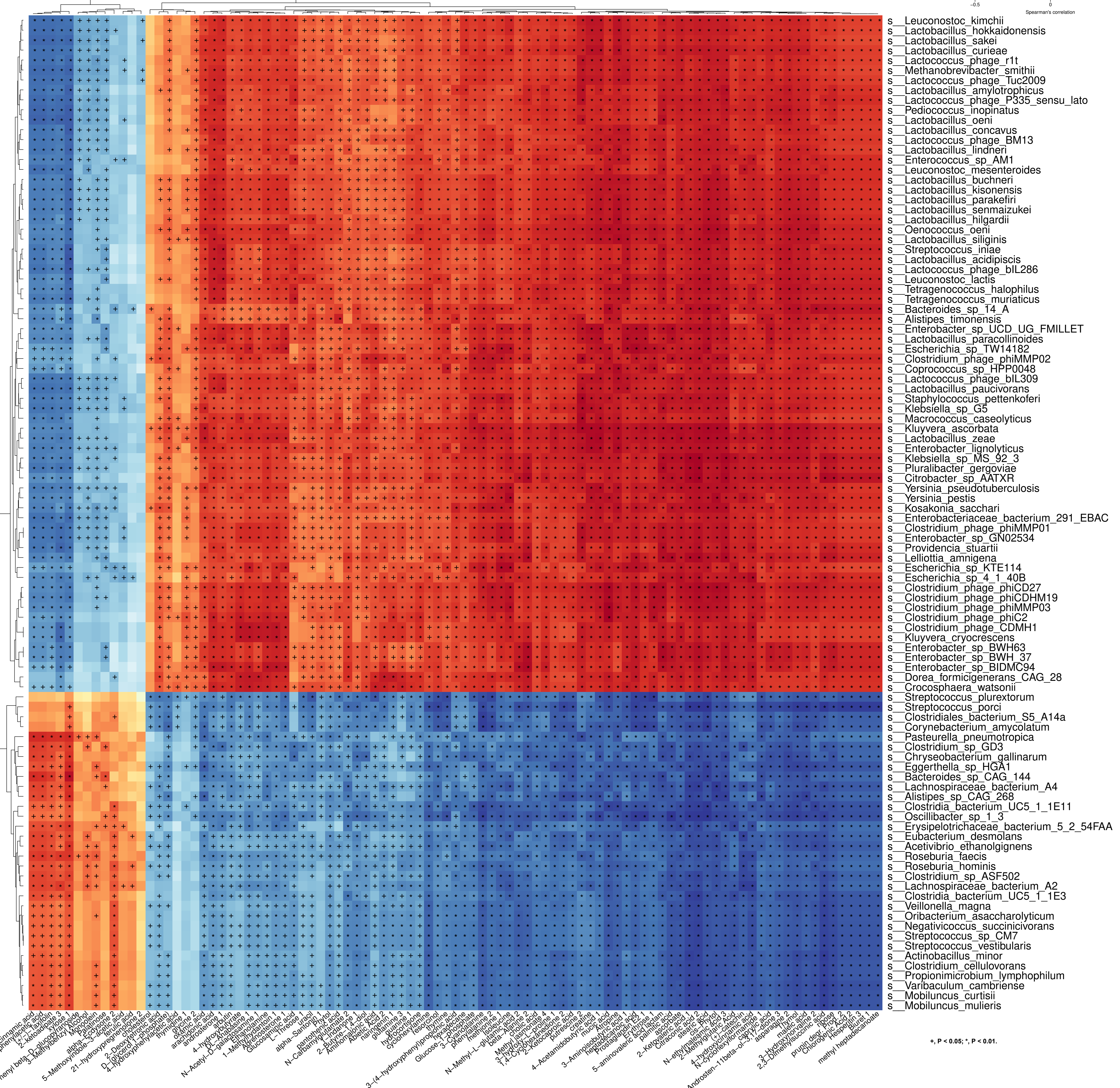
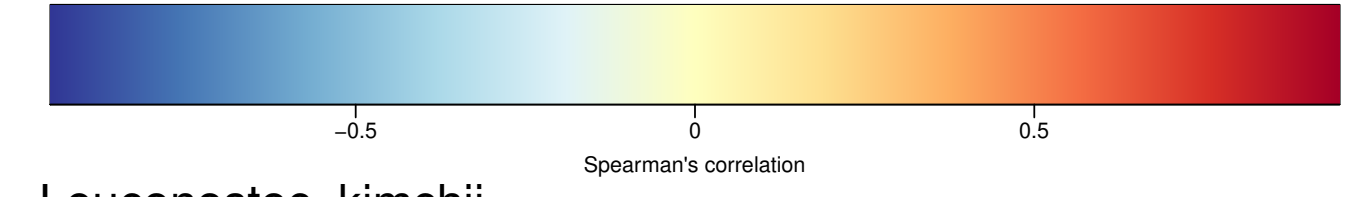


Additional file 7 Heatmap of Spearman correlation between differential gut microbiota and metabolites in the comparison between the NC and MET groups



- s_Leuconostoc_kimchii
- s_Lactobacillus_hokkaidonensis
- s_Lactobacillus_sakei
- s_Lactobacillus_curieae
- s_Lactococcus_phage_r1t
- s_Methanobrevibacter_smithii
- s_Lactococcus_phage_Tuc2009
- s_Lactobacillus_amylotrophicus
- s_Lactococcus_phage_P335_sensu_lato
- s_Pediococcus_inopinatus
- s_Lactobacillus_oeni
- s_Lactobacillus_concavus
- s_Lactococcus_phage_BM13
- s_Lactobacillus_lindneri
- s_Enterococcus_sp_AM1
- s_Leuconostoc_mesenteroides
- s_Lactobacillus_buchneri
- s_Lactobacillus_kisonensis
- s_Lactobacillus_parakefiri
- s_Lactobacillus_senmaizukei
- s_Lactobacillus_hilgardii
- s_Oenococcus_oeni
- s_Lactobacillus_siliginis
- s_Streptococcus_iniae
- s_Lactobacillus_acidipiscis
- s_Lactococcus_phage_bIL286
- s_Leuconostoc_lactis
- s_Tetragenococcus_halophilus
- s_Tetragenococcus_muriaticus
- s_Bacteroides_sp_14_A
- s_Alistipes_timonensis
- s_Enterobacter_sp_UCD_UG_FMILLET
- s_Lactobacillus_paracollinoides
- s_Escherichia_sp_TW14182
- s_Clostridium_phage_phiMMP02
- s_Coprococcus_sp_HPP0048
- s_Lactococcus_phage_bIL309
- s_Lactobacillus_paucivorans
- s_Staphylococcus_pettenkoferi
- s_Klebsiella_sp_G5
- s_Macrocococcus_caseolyticus
- s_Kluyvera_ascorbata
- s_Lactobacillus_zeae
- s_Enterobacter_lignolyticus
- s_Klebsiella_sp_MS_92_3
- s_Pluralibacter_gergoviae
- s_Citrobacter_sp_AATXR
- s_Yersinia_pseudotuberculosis
- s_Yersinia_pestis
- s_Kosakonia_sacchari
- s_Enterobacteriaceae_bacterium_291_EBAC
- s_Clostridium_phage_phiMMP01
- s_Enterobacter_sp_GN02534
- s_Providencia_stuartii
- s_Lelliottia_amnigena
- s_Escherichia_sp_KTE114
- s_Escherichia_sp_4_1_40B
- s_Clostridium_phage_phiCD27
- s_Clostridium_phage_phiCDHM19
- s_Clostridium_phage_phiMMP03
- s_Clostridium_phage_phiC2
- s_Clostridium_phage_CDMH1
- s_Kluyvera_cryocrescens
- s_Enterobacter_sp_BWH63
- s_Enterobacter_sp_BWH_37
- s_Enterobacter_sp_BIDMC94
- s_Dorea_formicigenerans_CAG_28
- s_Crocospaera_watsonii
- s_Streptococcus_plurextorum
- s_Streptococcus_porci
- s_Clostridiales_bacterium_S5_A14a
- s_Corynebacterium_amycolatium
- s_Pasteurella_pneumotropica
- s_Clostridium_sp_GD3
- s_Chryseobacterium_gallinarum
- s_Eggerthella_sp_HGA1
- s_Bacteroides_sp_CAG_144
- s_Lachnospiraceae_bacterium_A4
- s_Alistipes_sp_CAG_268
- s_Clostridia_bacterium_UC5_1_1E11
- s_Oscillibacter_sp_1_3
- s>Erysipelotrichaceae_bacterium_5_2_54FAA
- s_Eubacterium_desmolans
- s_Acetivibrio_ethanoligignens
- s_Roseburia_faecis
- s_Roseburia_hominis
- s_Clostridium_sp_ASF502
- s_Lachnospiraceae_bacterium_A2
- s_Clostridia_bacterium_UC5_1_1E3
- s_Veillonella_magna
- s_Oribacterium_asaccharolyticum
- s_Negativicoccus_succinicivorans
- s_Streptococcus_sp_CM7
- s_Streptococcus_vestibularis
- s_Actinobacillus_minor
- s_Clostridium_cellulovorans
- s_Propionimicrobium_lymphophilum
- s_Varibaculum_cambriense
- s_Mobiluncus_curtisii
- s_Mobiluncus_mulieris

*, P < 0.05; **, P < 0.01.