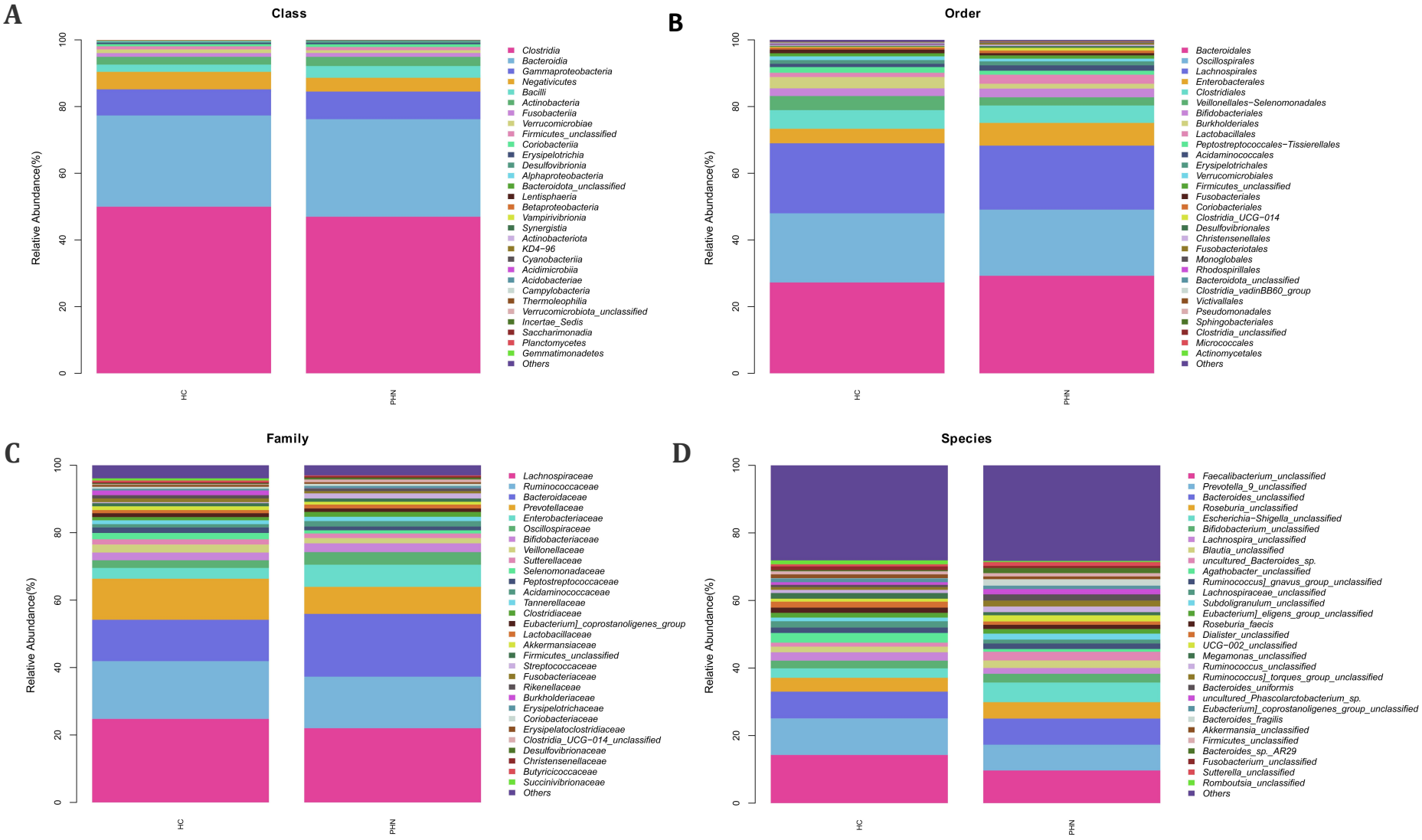
A
Class
Relative Abundance(%)
0
20
40
60
80
100
HC
PHN
Clostridia
Bacteroidia
Gammaproteobacteria
Negativicutes
Bacilli
Actinobacteria
Fusobacteriia
Verrucomicrobiae
Firmicutes_unclassified
Coriobacteriia
Erysipelotrichia
Desulfovibrionia
Alphaproteobacteria
Bacteroidota_unclassified
Lentisphaeria
Betaproteobacteria
Vampirivibrionia
Synergistia
Actinobacteriota
KD4-96
Cyanobacteriia
Acidimicrobiia
Acidobacteriae
Campylobacteria
Thermoleophilia
Verrucomicrobiota_unclassified
Incertae_Sedis
Saccharimonadia
Planctomycetes
Gemmatimonadetes
Others
B
Order
Relative Abundance(%)
0
20
40
60
80
100
HC
PHN
Bacteroidales
Oscillospirales
Lachnospirales
Enterobacterales
Clostridiales
Veillonellales-Selenomonadales
Bifidobacteriales
Burkholderiales
Lactobacillales
Peptostreptococcales-Tissierellales
Acidaminococcales
Erysipelotrichales
Verrucomicrobiales
Firmicutes_unclassified
Fusobacteriales
Coriobacteriales
Clostridia_UCG-014
Desulfovibrionales
Christensenellales
Fusobacteriotales
Monoglobales
Rhodospirillales
Bacteroidota_unclassified
Clostridia_vadinBB60_group
Victivallales
Pseudomonadales
Sphingobacteriales
Clostridia_unclassified
Micrococcales
Actinomycetales
Others
C
Family
Relative Abundance(%)
0
20
40
60
80
100
HC
PHN
Lachnospiraceae
Ruminococcaceae
Bacteroidaceae
Prevotellaceae
Enterobacteriaceae
Oscillospiraceae
Bifidobacteriaceae
Veillonellaceae
Sutterellaceae
Selenomonadaceae
Peptostreptococcaceae
Acidaminococcaceae
Tannerellaceae
Clostridiaceae
Eubacterium]_coprostanoligenes_group
Lactobacillaceae
Akkermansiaceae
Firmicutes_unclassified
Streptococcaceae
Fusobacteriaceae
Rikenellaceae
Burkholderiaceae
Erysipelotrichaceae
Coriobacteriaceae
Erysipelatoclostridiaceae
Clostridia_UCG-014_unclassified
Desulfovibrionaceae
Christensenellaceae
Butyricicoccaceae
Succinivibrionaceae
Others
D
Species
Relative Abundance(%)
0
20
40
60
80
100
HC
PHN
Faecalibacterium_unclassified
Prevotella_9_unclassified
Bacteroides_unclassified
Roseburia_unclassified
Escherichia-Shigella_unclassified
Bifidobacterium_unclassified
Lachnospira_unclassified
Blautia_unclassified
uncultured_Bacteroides_sp.
Agathobacter_unclassified
Ruminococcus]_gnavus_group_unclassified
Lachnospiraceae_unclassified
Subdoligranulum_unclassified
Eubacterium]_eligens_group_unclassified
Roseburia_faecis
Dialister_unclassified
UCG-002_unclassified
Megamonas_unclassified
Ruminococcus_unclassified
Ruminococcus]_torques_group_unclassified
Bacteroides_uniformis
uncultured_Phascolarctobacterium_sp.
Eubacterium]_coprostanoligenes_group_unclassified
Bacteroides_fragilis
Akkermansia_unclassified
Firmicutes_unclassified
Bacteroides_sp._AR29
Fusobacterium_unclassified
Sutterella_unclassified
Romboutsia_unclassified
Others