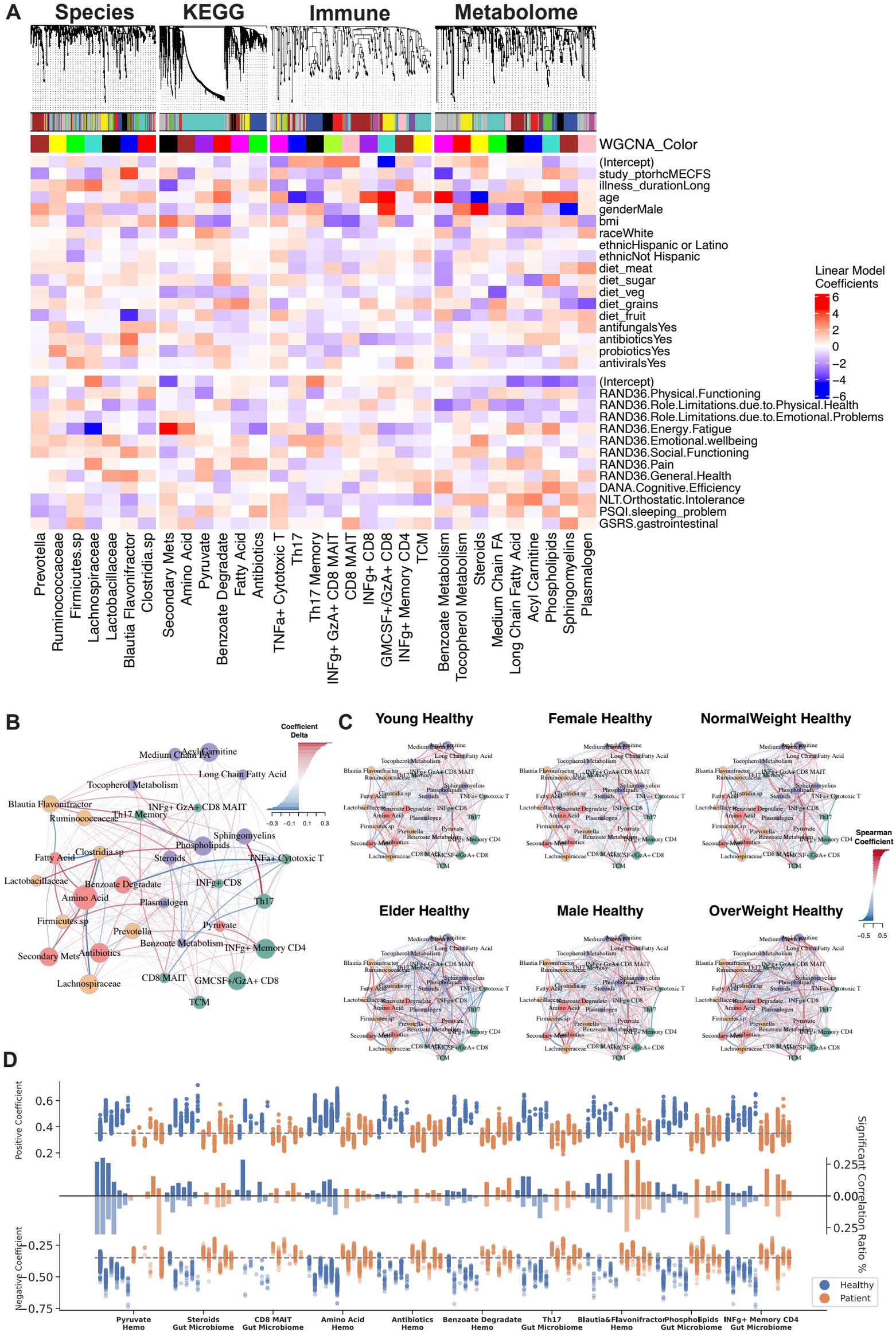
A
Species
KEGG
Immune
Metabolome
WGCNA_Color
(Intercept)
study_ptorhcMECFS
illness_durationLong
age
genderMale
bmi
raceWhite
ethnicHispanic or Latino
ethnicNot Hispanic
diet_meat
diet_sugar
diet_veg
diet_grains
diet_fruit
antifungalsYes
antibioticsYes
probioticsYes
antiviralsYes
(Intercept)
RAND36.Physical.Functioning
RAND36.Role.Limitations.due.to.Physical.Health
RAND36.Role.Limitations.due.to.Emotional.Problems
RAND36.Energy.Fatigue
RAND36.Emotional.wellbeing
RAND36.Social.Functioning
RAND36.Pain
RAND36.General.Health
DANA.Cognitive.Efficiency
NLT.Orthostatic.Intolerance
PSQI.sleeping_problem
GSRS.gastrointestinal
Linear Model Coefficients
6
4
2
0
−2
−4
−6
Prevotella
Ruminococcaceae
Firmicutes.sp
Lachnospiraceae
Lactobacillaceae
Blautia Flavonifractor
Clostridia.sp
Secondary Mets
Amino Acid
Pyruvate
Benzoate Degradate
Fatty Acid
Antibiotics
TNFa+ Cytotoxic T
Th17
Th17 Memory
INFg+ GzA+ CD8 MAIT
CD8 MAIT
INFg+ CD8
GMCSF+/GzA+ CD8
INFg+ Memory CD4
TCM
Benzoate Metabolism
Tocopherol Metabolism
Steroids
Medium Chain FA
Long Chain Fatty Acid
Acyl Carnitine
Phospholipids
Sphingomyelins
Plasmalogen
B
Coefficient Delta
−0.3
−0.1
0.1
0.3
Medium Chain FA
Acyl Carnitine
Long Chain Fatty Acid
Tocopherol Metabolism
Blautia Flavonifractor
Ruminococcaceae
Th17 Memory
INFg+ GzA+ CD8 MAIT
Sphingomyelins
Phospholipids
Fatty Acid
Clostridia.sp
Steroids
TNFa+ Cytotoxic T
Lactobacillaceae
Benzoate Degradate
INFg+ CD8
Amino Acid
Plasmalogen
Th17
Firmicutes.sp
Prevotella
Pyruvate
Benzoate Metabolism
INFg+ Memory CD4
Secondary Mets
Antibiotics
Lachnospiraceae
CD8 MAIT
GMCSF+/GzA+ CD8
TCM
C
Young Healthy
Female Healthy
NormalWeight Healthy
Elder Healthy
Male Healthy
OverWeight Healthy
Spearman Coefficient
−0.5
0.5
D
Positive Coefficient
0.6
0.4
0.2
Negative Coefficient
−0.25
−0.50
−0.75
Significant Correlation Ratio %
0.25
0.00
0.25
Healthy
Patient
Pyruvate Hemo
Steroids Gut Microbiome
CD8 MAIT Gut Microbiome
Amino Acid Hemo
Antibiotics Hemo
Benzoate Degradate Hemo
Th17 Gut Microbiome
Blautia&Flavonifractor Hemo
Phospholipids Gut Microbiome
INFg+ Memory CD4 Gut Microbiome