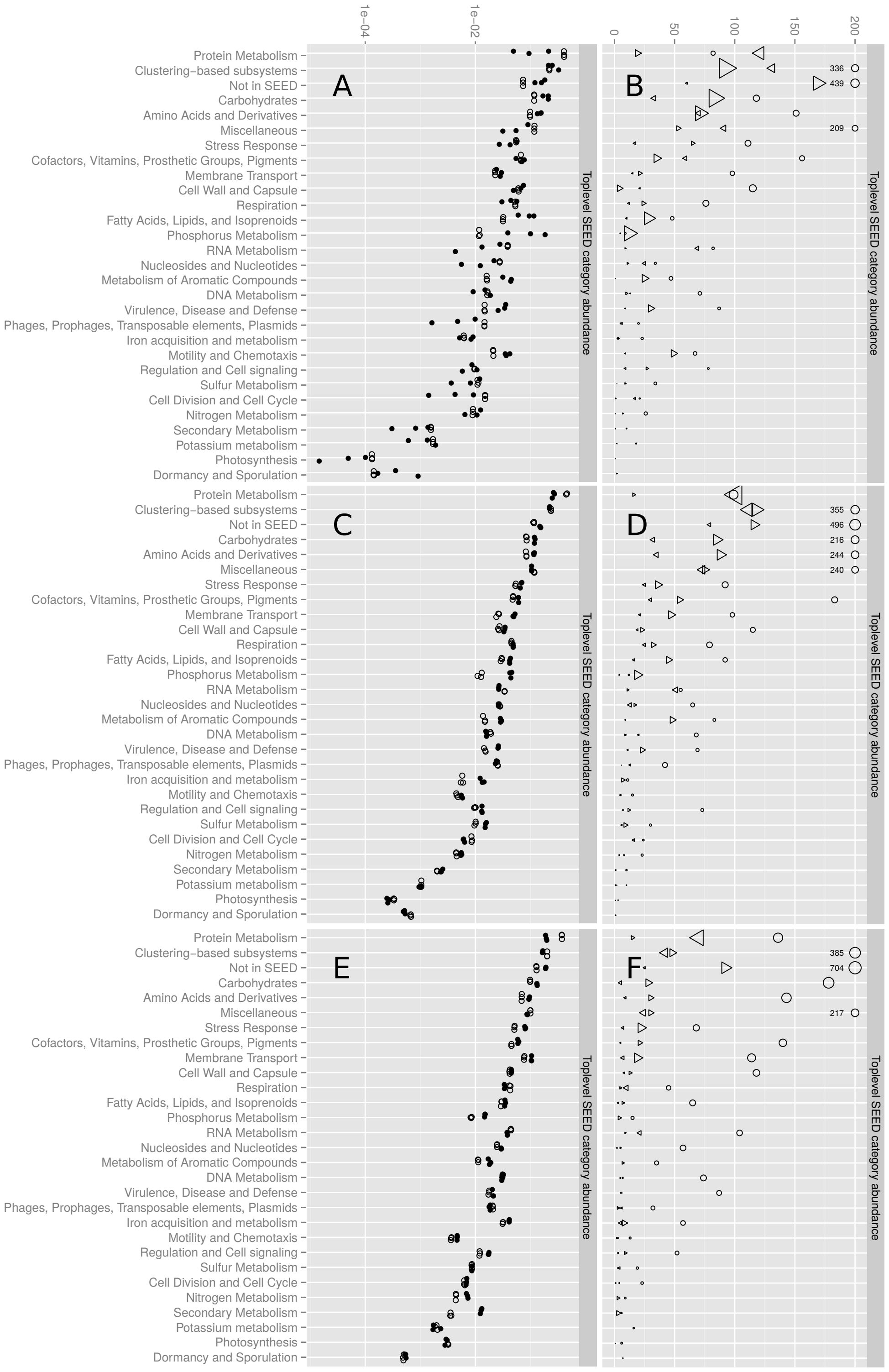
A
B
C
D
E
F
Toplevel SEED category abundance
1e−04
1e−02
0
50
100
150
200
336
439
209
355
496
216
244
240
385
704
217
Protein Metabolism
Clustering−based subsystems
Not in SEED
Carbohydrates
Amino Acids and Derivatives
Miscellaneous
Stress Response
Cofactors, Vitamins, Prosthetic Groups, Pigments
Membrane Transport
Cell Wall and Capsule
Respiration
Fatty Acids, Lipids, and Isoprenoids
Phosphorus Metabolism
RNA Metabolism
Nucleosides and Nucleotides
Metabolism of Aromatic Compounds
DNA Metabolism
Virulence, Disease and Defense
Phages, Prophages, Transposable elements, Plasmids
Iron acquisition and metabolism
Motility and Chemotaxis
Regulation and Cell signaling
Sulfur Metabolism
Cell Division and Cell Cycle
Nitrogen Metabolism
Secondary Metabolism
Potassium metabolism
Photosynthesis
Dormancy and Sporulation