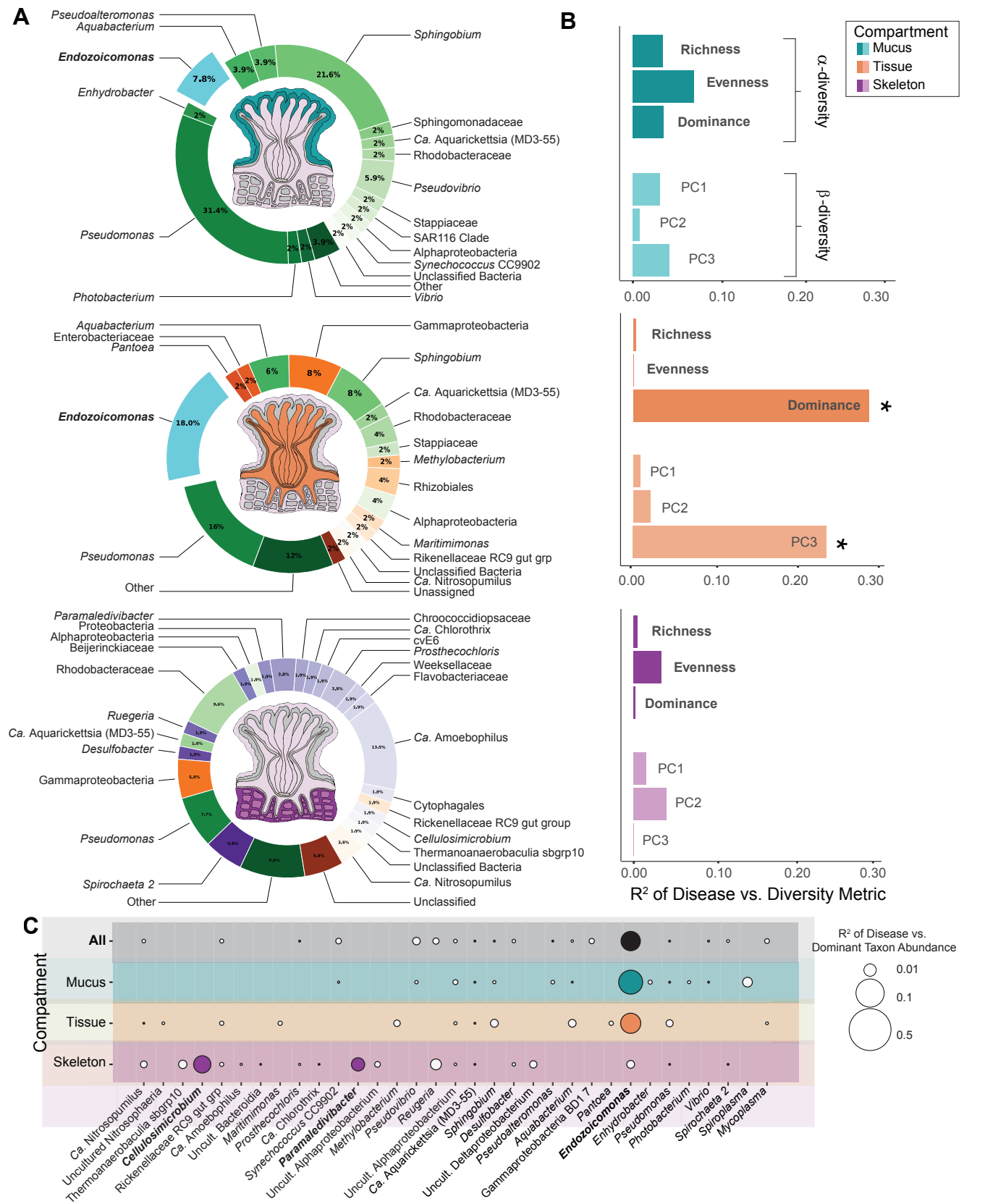
A
Pseudoalteromonas
Aquabacterium
Endozoicomonas
Enhydrobacter
Pseudomonas
Photobacterium
Sphingobium
Sphingomonadaceae
Ca. Aquarickettsia (MD3-55)
Rhodobacteraceae
Pseudovibrio
Stappiaceae
SAR116 Clade
Alphaproteobacteria
Synechococcus CC9902
Unclassified Bacteria
Other
Vibrio
Aquabacterium
Enterobacteriaceae
Pantoea
Endozoicomonas
Pseudomonas
Other
Gammaproteobacteria
Sphingobium
Ca. Aquarickettsia (MD3-55)
Rhodobacteraceae
Stappiaceae
Methylobacterium
Rhizobiales
Alphaproteobacteria
Maritimimonas
Rikenellaceae RC9 gut grp
Unclassified Bacteria
Ca. Nitrosopumilus
Unassigned
Paramaledivibacter
Proteobacteria
Alphaproteobacteria
Beijerinckiaceae
Rhodobacteraceae
Ruegeria
Ca. Aquarickettsia (MD3-55)
Desulfobacter
Gammaproteobacteria
Pseudomonas
Spirochaeta 2
Other
Chroococcidiopsaceae
Ca. Chlorothrix
cvE6
Prosthecochloris
Weeksellaceae
Flavobacteriaceae
Ca. Amoebophilus
Cytophagales
Rickenellaceae RC9 gut group
Cellulosimicrobium
Thermanoanaerobaculia sbgrp10
Unclassified Bacteria
Ca. Nitrosopumilus
Unclassified
B
Compartment
Mucus
Tissue
Skeleton
Richness
Evenness
Dominance
α-diversity
PC1
PC2
PC3
β-diversity
0.00
0.10
0.20
0.30
Richness
Evenness
Dominance
*
PC1
PC2
PC3
*
Richness
Evenness
Dominance
PC1
PC2
PC3
R² of Disease vs. Diversity Metric
C
Compartment
All
Mucus
Tissue
Skeleton
Ca. Nitrosopumilus
Uncultured Nitrosophaeria
Thermoanaerobaculia sbgrp10
Cellulosimicrobium
Rickenellaceae RC9 gut grp
Ca. Amoebophilus
Uncult. Bacteroidia
Maritimimonas
Prosthecochloris
Ca. Chlorothrix
Synechococcus CC9902
Paramaledivibacter
Uncult. Alphaproteobacteria
Methylobacterium
Pseudovibrio
Reugeria
Uncult. Alphaproteobacterium
Ca. Aquarickettsia (MD3-55)
Sphingobium
Desulfobacter
Uncult. Deltaproteobacterium
Pseudoalteromonas
Aquabacterium
Gammaproteobacteria BD1 7
Pantoea
Endozoicomonas
Enhydrobacter
Pseudomonas
Photobacterium
Vibrio
Spirochaeta 2
Spiroplasma
Mycoplasma
R² of Disease vs. Dominant Taxon Abundance
0.01
0.1
0.5