

Supplementary Table S3. Significant enrichment of 16S rRNA gene OTUs in ¹³C fractions of DNA stable isotope gradients.

| OTU | Taxonomy | base mean | log2-fold change | adjusted p-value | Treatment | Day |
|-----------|--|-----------|------------------|------------------|-----------|-----|
| OTU_80 | <i>Gammaproteobacteria</i> , <i>Vibrionaceae</i> | 8.7 | 7.7 | 0.000 | Proteins | 10 |
| OTU_80 | <i>Gammaproteobacteria</i> , <i>Vibrionaceae</i> | 8.7 | 6.7 | 0.002 | Lipids | 5 |
| OTU_232 | <i>Deltaproteobacteria</i> , <i>Desulfatiglans</i> | 2.4 | 6.4 | 0.005 | Proteins | 10 |
| OTU_4 | <i>Gammaproteobacteria</i> , <i>Psychromonas</i> | 936.5 | 5.5 | 0.000 | Lipids | 5 |
| OTU_312 | <i>Cyanobacteria</i> | 1.9 | 5.2 | 0.034 | Proteins | 10 |
| OTU_4 | <i>Gammaproteobacteria</i> , <i>Psychromonas</i> | 936.5 | 4.9 | 0.000 | Lipids | 10 |
| OTU_4141 | <i>Firmicutes</i> , <i>Defluviitaleaceae</i> | 5.2 | 4.8 | 0.015 | Lipids | 10 |
| OTU_183 | <i>Deltaproteobacteria</i> , <i>Sva0485</i> | 4.2 | 4.8 | 0.003 | Proteins | 10 |
| OTU_184 | <i>Bacteroidetes</i> , <i>Prolixibacter</i> | 1.4 | 4.5 | 0.083 | Proteins | 10 |
| OTU_123 | <i>Marinimicrobia</i> | 4.3 | 4.5 | 0.007 | Proteins | 10 |
| OTU_4 | <i>Gammaproteobacteria</i> , <i>Psychromonas</i> | 936.5 | 4.5 | 0.000 | Proteins | 5 |
| OTU_80 | <i>Gammaproteobacteria</i> , <i>Vibrionaceae</i> | 8.7 | 4.3 | 0.015 | Lipids | 10 |
| OTU_124 | <i>Bacteroidetes</i> , <i>BD2-2</i> | 3.6 | 3.7 | 0.055 | Proteins | 10 |
| OTU_285 | <i>Gammaproteobacteria</i> , <i>JTB255</i> | 2.7 | 3.6 | 0.083 | Proteins | 10 |
| OTU_13310 | <i>Deltaproteobacteria</i> , <i>Desulfofrigus</i> | 5.4 | 3.5 | 0.072 | Lipids | 10 |
| OTU_4719 | <i>Deltaproteobacteria</i> , <i>NB1-J</i> | 3.1 | 3.3 | 0.098 | Proteins | 10 |
| OTU_54 | <i>Gammaproteobacteria</i> , <i>Vibrionaceae</i> | 9.1 | 3.2 | 0.030 | Proteins | 5 |
| OTU_128 | <i>Gammaproteobacteria</i> , <i>Sva0071</i> | 4.1 | 3.1 | 0.045 | Proteins | 10 |
| OTU_1 | <i>Firmicutes</i> , <i>JTB215</i> | 967.1 | 3.0 | 0.018 | Proteins | 5 |
| OTU_202 | <i>Firmicutes</i> , <i>Clostridiales</i> | 2.1 | 3.0 | 0.098 | Proteins | 10 |
| OTU_205 | <i>Gammaproteobacteria</i> , <i>Thiotrichaceae</i> | 3.2 | 3.0 | 0.083 | Proteins | 10 |
| OTU_4050 | <i>Firmicutes</i> , <i>Fusibacter</i> | 25.8 | 3.0 | 0.001 | Proteins | 10 |
| OTU_4 | <i>Gammaproteobacteria</i> , <i>Psychromonas</i> | 936.5 | 2.8 | 0.009 | Proteins | 10 |
| OTU_1 | <i>Firmicutes</i> , <i>JTB215</i> | 967.1 | 2.8 | 0.036 | Lipids | 10 |
| OTU_38 | <i>Firmicutes</i> , <i>Clostridiales</i> | 11.2 | 2.6 | 0.006 | Proteins | 5 |
| OTU_19 | <i>Deltaproteobacteria</i> , <i>SEEP-SRB1</i> | 22.5 | 2.1 | 0.009 | Proteins | 10 |
| OTU_892 | <i>Deltaproteobacteria</i> , <i>Desulfobulbaceae</i> | 11.0 | 2.1 | 0.098 | Proteins | 10 |
| OTU_5 | <i>Fusobacteria</i> , <i>Psychrilyobacter</i> | 297.5 | 2.0 | 0.005 | Proteins | 5 |
| OTU_36 | <i>Deltaproteobacteria</i> , <i>Desulfobulbaceae</i> | 16.0 | 2.0 | 0.068 | Proteins | 10 |
| OTU_44 | <i>Deltaproteobacteria</i> , <i>Desulfatiglans</i> | 16.5 | 1.8 | 0.098 | Proteins | 10 |
| OTU_67 | <i>Deltaproteobacteria</i> , <i>Desulfoconvexum</i> | 19.0 | 1.7 | 0.055 | Proteins | 10 |
| OTU_2 | <i>Deltaproteobacteria</i> , <i>Desulfofrigus</i> | 699.6 | 1.3 | 0.043 | Proteins | 10 |
| OTU_5 | <i>Fusobacteria</i> , <i>Psychrilyobacter</i> | 297.5 | 1.3 | 0.055 | Proteins | 10 |