**Additional File 4** Venn diagrams showing overlap in number of genera predicted from reads of mRNA and 16S rRNA origin for five metatranscriptomic samples

Permafrost

- mRNA: 167
- 16S rRNA: 74
- Overlap: 161

Kimchi

- mRNA: 251
- 16S rRNA: 169
- Overlap: 132

Mouse

- mRNA: 686
- 16S rRNA: 151
- Overlap: 36

Cow

- mRNA: 562
- 16S rRNA: 183
- Overlap: 64

Deepsea

- mRNA: 2403
- 16S rRNA: 308
- Overlap: 196