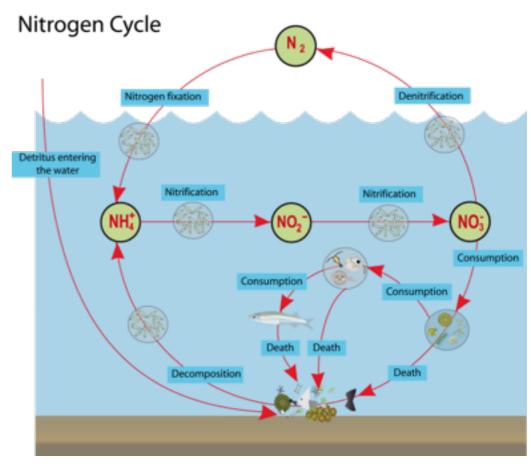
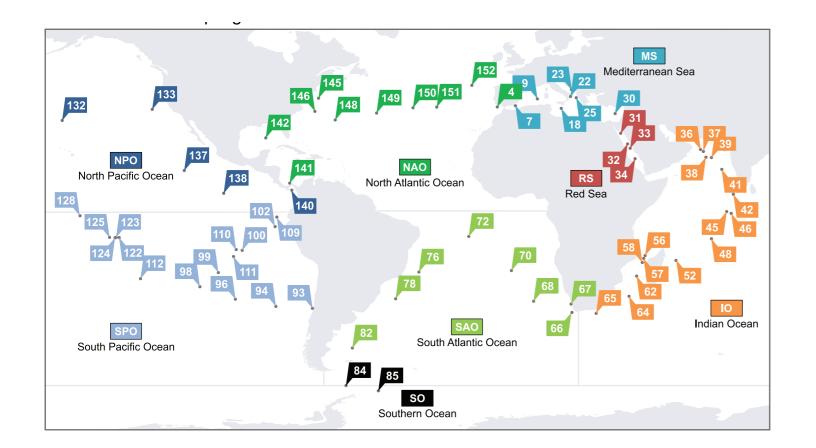
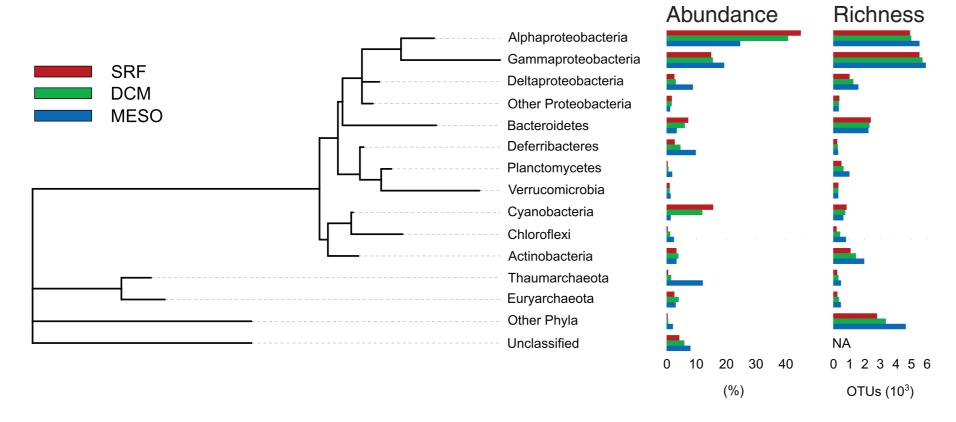
Metagenomic analysis if Black Sea microbial communities

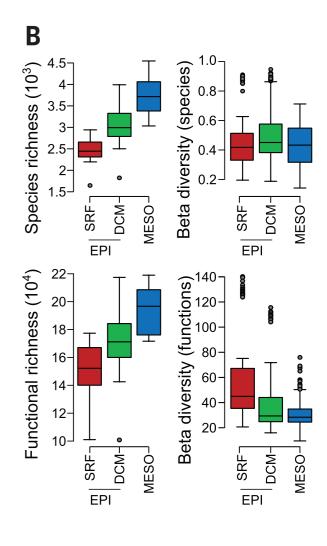
Why is it important

- Integral to all major biochemical cycles, fluxes and processes that run in marine ecosystems
- ~99% of marine microorganisms cannot be cultured in the lab









Sunagawa et al. 2015

What we want to do

69 sea water samples from 12 stations

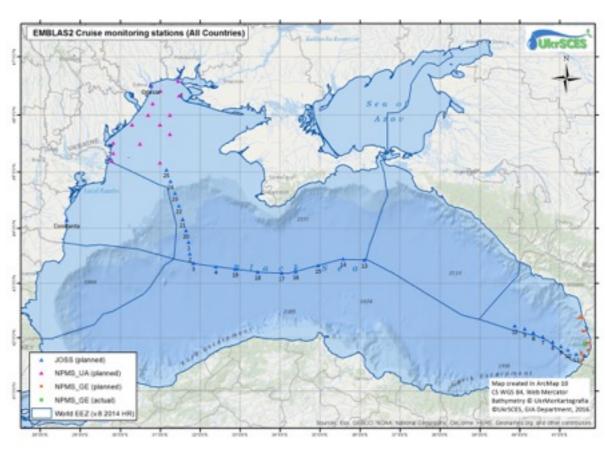
30 sediment samples from 5 stations in May-June 2016.

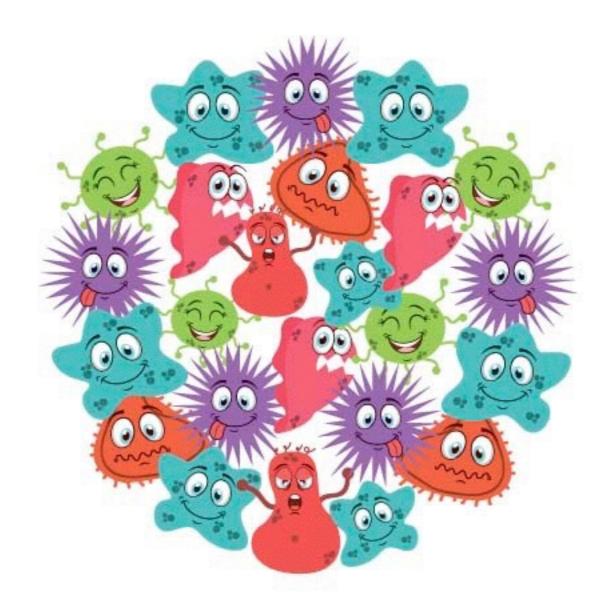
16s Illumina sequencing, sequence assembly, gene prediction, metagenomic operational taxonomic units (mOTUs) identification, estimation of mOTU relative abundance and gene abundance in a community...

Correlate relative abundances of taxonomic and gene compositions with the data on environmental parameters, such as temperature, salinity, nutrient abundace, oxygen concentration and H2S concentration to discover specific gene and taxonomic patterns and

possible adaptation of microbial communities







Thanks tor attention!