## Reactions and taxa C-S-01:Organic carbon oxidation Alphaproteobacteria Desulfobacterota C-S-02:Carbon fixation Euryarchaeota Carbon C-S-04:Acetate oxidation C-S-05:Hydrogen generation Taxa Alphaproteobacteria C-S-06:Fermentation Desulfobacterota Euryarchaeota C-S-08:Methanotrophy Bammaproteobacteria Gammaproteobacteria C-S-09:Hydrogen oxidation Micrarchaeota N-S-04:Nitrate reduction Nanoarchaeota Nitrospirota N-S-05:Nitrite reduction Nitrogen N-S-06:Nitric oxide reduction Omnitrophota Patescibacteria N-S-08:Nitrite ammonification O-S-01:Metal reduction **UBA9089** Verrucomicrobiota Micrarchaeota O-S-02:Arsenate reduction Oxygen Nitrospirota O-S-03:Arsenite oxidation Omnitrophota Patescipacteria S-S-01:Sulfide oxidation S-S-03:Sulfur oxidation **UBA9089** Sulfur S-S-04:Sulfite oxidation S-S-05:Sulfate reduction S-S-07:Thiosulfate oxidation S-S-00:Thiosulfate disproportionation 1 Verrucomicrobiota S-S-09:Thiosulfate disproportionation 2 Taxa Reaction Category