Carbon 49 taxonomic groups and 418 distinct MAGs -ormaldenyd methanol methane Oxidation production methane metnane Ljundahl Formate cycle TCA 4HB Thaumarchaeota -CP Bathyarchaeota Archaea CP Verstratearchaeota Euryarchaeota CP Parvarchaeota CP Altiarchaeota CP Aenigmarchaeota **DPANN** Archaea Woesearchaeota CP Pacearchaeota CP Handelsmanbacteria -CP Aminicemantes (OP8) -Sericytochromatia, Tanganyikabacteria Cyanobacteria Firmicutes ¹ Chloroflexi · Armatimonadetes -Actinobacteria · Gemmatimonadetes CP BRC1 CP WOR-3 Nb.of.genes CP Zixibacteria -30 Ignavibacteria Taxonomy Calditrichaeota Chlorobi 20 CP Eisenbacteria CP Ziwabacteria Bacteroidetes 10 Bacteria Kirimatiellaeota CP WOR-2 Omnitrophica -Chlamydiae -Verrucomicrobia Planctomycetes Planctomycetes (Phycisphaerae) CP WWE1 CP Poribacteria Lentisphaerae Ш Acidobacteria Nitrospirae CP Tectomicrobia -CP Rokubacteria -Deltaproteobacteria -CP Hydrogenedentes Alphaproteobacteria non LD12 Betaproteobacteria Gammaproteobacteria -CP Staskawiczbacteria -CP Peribacteria **CPR** Bacteria CP Moranbacteria CP Kaiserbacteria -BH188 acetate_citrate_lyase_aclB.acetate_citrate_lyase_aclB. mmoB

Genes