

Domain	Genome Name	Genome Size (bp)	Phylum	Class	
Bacteria	<i>Acidobacterium capsulatum</i> ATCC 51196	4,127,356	Acidobacteria	Acidobacteriae	
	<i>Akkermansia muciniphila</i> ATCC BAA-835	2,664,102	Verrucomicrobia	Verrucomicrobiae	
	<i>Anaerocellum thermophilum</i> Z-1320, DSM 6725	2,919,718	Firmicutes	Clostridia	
	<i>Bacteroides thetaiotaomicron</i> VPI-5482	6,293,399	Bacteroidetes	Bacteroidia	
	<i>Bacteroides vulgatus</i> ATCC 8482	5,163,189	Bacteroidetes	Bacteroidia	
	<i>Bordetella bronchiseptica</i> RB50	5,339,179	Proteobacteria	Betaproteobacteria	
	<i>Burkholderia xenovorans</i> LB400	973,113	Proteobacteria	Betaproteobacteria	
	<i>Caldicellulosiruptor saccharolyticus</i> DSM 8903	2,970,275	Firmicutes	Clostridia	
	<i>Chlorobaculum tepidum</i> TLS	2,154,946	Chlorobi	Chlorobia	
	<i>Chlorobium limicola</i> DSM 245	2,763,181	Chlorobi	Chlorobia	
	<i>Chlorobium phaeobacteroides</i> DSM 266	3,133,902	Chlorobi	Chlorobia	
	<i>Chlorobium phaeovibrioides</i> DSM 265	1,966,858	Chlorobi	Chlorobia	
	<i>Chloroflexus aurantiacus</i> J-10-fl	5,258,541	Chloroflexi	Chloroflexi	
	<i>Clostridium thermocellum</i> ATCC 27405	3,843,301	Firmicutes	Clostridia	
	<i>Deinococcus radiodurans</i> R1	3,284,156	Thermi	Deinococci	
	<i>Desulfovibrio desulfuricans</i> ATCC 27774	2,873,437	Proteobacteria	Deltaproteobacteria	
	<i>Desulfovibrio piger</i> ATCC 29098	2,826,240	Proteobacteria	Deltaproteobacteria	
	<i>Dictyoglomus turgidum</i> DSM 6724	1,855,560	Dictyoglomi	Dictyoglonia	
	<i>Enterococcus faecalis</i> V583	3,359,974	Firmicutes	Bacilli	
	<i>Fusobacterium nucleatum</i> ATCC 25586	2,174,500	Fusobacteria	Fusobacteria	
	<i>Gemmatimonas aurantiaca</i> T-27T	4,636,964	Gemmatimonadetes	Gemmatimonadetes	
	<i>Herpetosiphon aurantiacus</i> ATCC 23779	6,785,430	Chloroflexi	Chloroflexi	
	<i>Hydrogenobaculum</i> sp. Y04AAS1	1,559,514	Aquificae	Aquificae	
	<i>Leptothrix cholodnii</i> SP-6	4,909,403	Proteobacteria	Betaproteobacteria	
	<i>Nitrosomonas europaea</i> ATCC 19718	2,812,094	Proteobacteria	Betaproteobacteria	
	<i>Nostoc</i> sp. PCC 7120	7,211,789	Cyanobacteria	unclassified	
	<i>Pelodictyon phaeoclathratiforme</i> BU-1	3,018,238	Chlorobi	Chlorobia	
	<i>Persephonella marina</i> EX-H1	2,467,104	Aquificae	Aquificae	
	<i>Porphyromonas gingivalis</i> ATCC 33277	2,354,886	Bacteroidetes	Bacteroidia	
	<i>Rhodopirellula baltica</i> SH 1	7,145,576	Planctomycetes	Planctomycetacia	
	<i>Rhodospirillum rubrum</i> ATCC 11170	4,406,557	Proteobacteria	Alphaproteobacteria	
	<i>Ruegeria pomeroyi</i> DSS-3	4,601,053	Proteobacteria	Alphaproteobacteria	
	<i>Salinispora arenicola</i> CNS-205	5,786,361	Actinobacteria	Actinobacteria	
	<i>Salinispora tropica</i> CNB-440	5,183,331	Actinobacteria	Actinobacteria	
	<i>Shewanella baltica</i> OS185	5,312,910	Proteobacteria	Gammaproteobacteria	
	<i>Shewanella baltica</i> OS223	5,358,884	Proteobacteria	Gammaproteobacteria	
	<i>Sulfitobacter</i> sp. EE-36	3,547,243	Proteobacteria	Alphaproteobacteria	
	<i>Sulfitobacter</i> sp. NAS-14.1	4,002,069	Proteobacteria	Alphaproteobacteria	
	<i>Sulfurihydrogenibium</i> sp. YO3AOP1	1,838,442	Aquificae	Aquificae	
	<i>Sulfurihydrogenibium yellowstonense</i> SS-5	1,534,471	Aquificae	Aquificae	
	<i>Thermoanaerobacter pseudethanolicus</i> ATCC 33223	2,362,816	Firmicutes	Clostridia	
	<i>Thermotoga neapolitana</i> DSM 4359	1,884,562	Thermotogae	Thermotogae	
	<i>Thermotoga petrophila</i> RKU-1	1,824,357	Thermotogae	Thermotogae	
	<i>Thermotoga</i> sp. RQ2	877,693	Thermotogae	Thermotogae	
	<i>Thermus thermophilus</i> HB8	2,116,056	Thermi	Thermi	
	<i>Treponema denticola</i> ATCC 35405	2,843,201	Spirochaetes	Spirochaetes	
	<i>Zymomonas mobilis</i> ZM4	2,223,497	Proteobacteria	Alphaproteobacteria	
	Archaea	<i>Archaeoglobus fulgidus</i> DSM 4304	2,178,400	Euryarchaeota	Archaeoglobi
		<i>Ignicoccus hospitalis</i> KIN4/I	1,297,538	Crenarchaeota	Thermoprotei
		<i>Methanocaldococcus jannaschii</i> DSM 2661	1,664,970	Euryarchaeota	Methanococci
<i>Methanococcus maripaludis</i> C5		1,780,761	Euryarchaeota	Methanococci	
<i>Methanococcus maripaludis</i> S2		1,661,137	Euryarchaeota	Methanococci	
<i>Nanoarchaeum equitans</i> Kin4-M		490,885	Nanoarchaeota	Nanoarchaea	
<i>Pyrobaculum aerophilum</i> IM2		2,222,430	Crenarchaeota	Thermoprotei	
<i>Pyrobaculum calidifontis</i> JCM 11548		2,009,313	Crenarchaeota	Thermoprotei	
<i>Pyrococcus horikoshii</i> OT3		1,738,505	Euryarchaeota	Thermococci	
<i>Sulfolobus tokodaii</i> 7(S311)	2,694,756	Crenarchaeota	Thermoprotei		

**Suppl. Tab. 1.** Biological composition of the even and uneven mock-communities used for this study.