OTU id	% match	Provisional identification	Aerobic	Anaerobic	Facultative	Pathogen	Farm	Fecal	NTP	Sulfur Oxidizer	Sulfur Dispro-portionator	Sulfur Reducer	N Oxidizer	N Reducer	Gentrifiy	Nitrogen Fixation	Dissimilatory Nitrate Reduction	Nitrate to Nitrite	Nitrate assimilation	Methane Oxidizer	Iron Reducer	Iron Oxidizer	Mn Reducer	Mn Oxidizer	Photo-synthesis	References
130	98	Arcobacter	1			1																				1. Sulfurovum aggregens sp. nov., a hydrogen-oxidizing, thiosulfate-reducing chemolithoautotroph within the Epsilonproteobacteria isolated from a deep-sea hydrothermal vent chimney, and an amended description of the genus Sulfurovum [http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.001956-0&mdt=2
85	99	Aliiglaciecola				1																				2. aceanaphta gen. nov., sp. nov., a
1186	99	Alteromonas				1																				http://bmc.biomedcentral.com/1471-2180/7/49/table/t1
5	98	Arcobacter		1			1		1		1				1				1							https://link.springer.com/article/10.1134/S1062359210170130/fig-2-en#
314	98	Arcobacter		1			1		1		1				1				1							https://link.springer.com/article/10.1134/S1062359210170130/fig-2-en#
184	98	Arcobacter		1			1		1		1				1				1							https://link.springer.com/article/10.1134/S1062359210170130/fig-2-en#
184	98	Arcobacter		1			1		1		1				1				1							https://link.springer.com/article/10.1134/S1062359210170130/fig-2-en#
223	99	Arcobacter		1			1		1		1				1				1							https://link.springer.com/article/10.1134/S1062359210170130/fig-2-en#
223	99	Arcobacter		1			1		1		1				1				1							https://link.springer.com/article/10.1134/S1062359210170130/fig-2-en#
211	99	Bacillus			1																					Berge's manual
210	99	Bacillus			1																					Berge's manual
216	99	Bacillus			1																					Berge's manual
226	99	Bacillus			1																					Berge's manual
1186	99	Bacillus																								Berge's manual
76	96	Bacterium endosymbiont of Cladoa																								unknown function
1183	91	Bacterium endosymbiont of Cladoa																								unknown function
9	98	Bacterium epigenitant of Ilsea																								unknown function
19	98	Bacterium epigenitant of Ilsea																								unknown function
287	91	Bacterium epigenitant of Ilsea																								unknown function
964	91	Bacterium epigenitant of Ilsea																								unknown function
336	91	Bacterium epigenitant of Ilsea																								unknown function
1186	91	Bacterium epigenitant of Ilsea Sp.																								unknown function
1186	96	Bacteroidetes bacterium																								unknown function
483	80	Bdellovibrio	1																							Berge's manual
1186	88	Bdellovibrio bacteriovorus																								unknown function
1186	88	Bdellovibrio uzelbiscium																								unknown function
261	93	Candidatus Accumulibacter																								unknown function
261	98	Candidatus chlorobiles																								unknown function
237	91	Cellulophaga	1												1	1										Berge's manual
1186	99	Cellulosilyticum							1						1					1						unknown function
1072	87	Cytophaga fermentans	1		1																					Berge's manual
490	98	Desulfovibrio fairfieldensis			1							1	1		1		1									Berge's manual
1186	98	Endosymbiont of Bacteria																								unknown function
16	97	Endosymbiont of Bacteria																								unknown function
91	97	Endosymbiont of Bacteria																								unknown function
144	98	Endosymbiont of Bacteria																								unknown function
117	98	Endosymbiont of Bacteria																								unknown function
169	98	Endosymbiont of Bacteria																								unknown function
169	98	Endosymbiont of Bacteria																								unknown function
17	97	Endosymbiont of Cladoa mucoflavis																								unknown function
36	97	Endosymbiont of Cladoa mucoflavis																								unknown function
45	91	Endosymbiont of Cladoa mucoflavis																								unknown function
45	91	Endosymbiont of Cladoa mucoflavis																								unknown function
77	97	Endosymbiont of Cladoa mucoflavis																								unknown function
97	96	Endosymbiont of Cladoa mucoflavis																								unknown function
177	98	Endosymbiont of Cladoa mucoflavis																								unknown function
177	98	Endosymbiont of Cladoa mucoflavis																								unknown function
213	96	Endosymbiont of Cladoa mucoflavis																								unknown function
213	96	Endosymbiont of Cladoa mucoflavis																								unknown function
146	97	Endosymbiont of Rhizia pisumae																								unknown function
174	92	Endosymbiont of Rhizia pisumae																								unknown function
1	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
6	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
9	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
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34	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
41	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
51	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
61	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
81	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
85	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
87	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
88	98	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
90	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
93	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
104	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
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115	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
126	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
127	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
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239	98	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
254	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
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371	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
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383	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
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437	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
442	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
444	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
450	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
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452	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
470	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
471	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
475	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
476	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
479	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
481	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
486	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
509	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
516	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
523	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
530	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
536	99	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
920	92	Escherichia				1	1		1																	https://www.ncbi.nlm.nih.gov/pubmed/21188674
254	99	Fastidiosibacteria halophilus																								unknown function
111	97	Flavobacterium	1				1								1	1										1. Complete genome sequence of the
111	97	Flavobacterium	1				1								1	1										1. Complete genome sequence of the
244	97	Flavobacterium	1				1								1	1										1. Complete genome sequence of the
791	98	Flavobacterium sp.	1				1								1	1										1. Complete genome sequence of the
1186	97	Flavobacterium	1																			1				1. Complete genome sequence of the
117	97	Fusibacter		1																						BERGEY'S MANUAL OF Systematic
1189	98	Gallionella		1																						1. Sulfurovum aggregens sp. nov., a hydrogen-oxidizing, thiosulfate-reducing chemolithoautotroph within the Epsilonproteobacteria isolated from a deep-sea hydrothermal vent chimney, and an amended description of the genus Sulfurovum [http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.001956-0&mdt=2
197	96	Geobacter bedeq																								unknown function
1183	98	Geobacter bedeq																								unknown function
231	97	Halothiobacillus								1																1. Sulfurovum aggregens sp. nov., a hydrogen-oxidizing, thiosulfate-reducing chemolithoautotroph within the Epsilonproteobacteria isolated from a deep-sea hydrothermal vent chimney, and an amended description of the genus Sulfurovum [http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.001956-0&mdt=2
231	97	Halothiobacillus								1																1. Sulfurovum aggregens sp. nov., a hydrogen-oxidizing, thiosulfate-reducing chemolithoautotroph within the Epsilonproteobacteria isolated from a deep-sea hydrothermal vent chimney, and an amended description of the genus Sulfurovum [http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.001956-0&mdt=2
455	97	Halothiobacillus								1																1. Sulfurovum aggregens sp. nov., a hydrogen-oxidizing, thiosulfate-reducing chemolithoautotroph within the Epsilonproteobacteria isolated from a deep-sea hydrothermal vent chimney, and an amended description of the genus Sulfurovum [http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.001956-0&mdt=2
1186	98	Halothiobacillus	1																							1. Microbial communities and chemosynthesis in Yellowstone Lake subaqueous hydrothermal vent waters [https://www.frontiersin.org/articles/10.3389/fmicb.2011.00178/full#t1]
914	96	Holosporaceae bacterium																								unknown function
98	92	HUMAN ORAL TAXON																								unknown function
1186	92	HUMAN ORAL TAXON																								unknown function
313	92	HUMAN ORAL TAXON																								unknown function
211	99	Hydrogenophaga	1							1					1											BERGEY'S MANUAL OF Systematic Bacteriology Second Edition :ABSR Proteobacteria
123	98	Ignatzschineria		1							1															Berge's manual
216	86	Listeria		1																						Berge's manual
1186	99	Lysobacter antibioticus		1																						http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63309-0&mdt
384	97	Lysobacter	1																							1. Analysis of five novel genome sequences for members of the class Perlucibacteria in the recently recognized Perigemmatimonadetes bacterial phylum [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3750891/]
8	98	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
18	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
28	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
45	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
48	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
48	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
66	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
70	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
75	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
111	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
113	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
115	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
116	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
121	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
171	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
212	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
224	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
229	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
229	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
233	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
243	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
263	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
314	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
359	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
360	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
367	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
367	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
528	99	Lysinibacillus																								http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.63817-0&mdt
1186	99	Lysinibacillus								1					1											1. Description of Bacillus tepidiphilus sp. nov., a novel facultatively anaerobic thermophilic cellulolytic bacterium from the class Ignavibacteria, and a proposal of a novel bacterial phylum Ignavibacteriae [https://www.ncbi.nlm.nih.gov/pubmed/23297668]
219	88	Macrococcus		1											1				1							Berge's manual
345	92	Marinobacta	1	1	1																					1. Sulfurihydra oscillaceae gen. nov., sp. nov., isolated from a freshwater lake, reclassification of 'Thiobacillus plumbophilus' as Sulfuritenuis plumbophilus sp. nov., and description of Sulfuritalea gen. nov. and Sulfuritalea ord. nov. [http://ijs.microbiologyresearch.org/content/journal/ijsem/10.1099/ijs.0.00261-0&mdt]
92	90	Marinobacter	1	1	1										1											Berge's manual
1186	88	Methylobacter																								1. Microbial communities and chemosynthesis in Yellowstone Lake subaqueous hydrothermal vent waters [https://www.frontiersin.org/articles/10.3389/fmicb.2011.00178/full#t1]
1186	96	Methylomonadis disciplicorum	1																							1. Microbial communities and chemosynthesis in Yellowstone Lake subaqueous hydrothermal vent waters [https://www.frontiersin.org/articles/10.3389/fmicb.2011.00178/full#t1]
261	96	Methylomonadis disciplicorum																								unknown function
401	92	Mollicutes bacterium																								unknown function
108	98	Mycoplasma																								Berge's manual
414	99	Mycoplasma																								Berge's manual
1186	99	Nocardioides	1		1			1																		BERGEY'S M