
Supplementary material

Diversity of ammonia-oxidising bacteria and archaea in seven different estuarine sediments from Poyang Lake

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Table S1. The group of ammonia-oxidising archaeal (AOA) representative operational taxonomic unit (OTU) identities

OTU number	Closest relative	Phylum	Number of sequences
1	Uncultured archaeon	—	9
2	Uncultured archaeon	—	3
3	Uncultured archaeon	—	1
4	Uncultured archaeon	—	1
5	Uncultured archaeon	—	13
6	Uncultured crenarchaeota	Crenarchaeota	1
7	Uncultured crenarchaeota	Crenarchaeota	22
8	Uncultured archaeon	—	1
9	Uncultured archaeon	—	78
10	Uncultured crenarchaeota	Crenarchaeota	1
11	Uncultured archaeon	—	18
12	Uncultured crenarchaeota	Crenarchaeota	11
13	Uncultured archaeon	—	1
14	Uncultured archaeon	—	1
15	Uncultured thaumarchaeota	Thaumarchaeota	1
16	Uncultured crenarchaeota	Crenarchaeota	1
17	Uncultured archaeon	—	8
18	Uncultured archaeon	—	1
19	Uncultured crenarchaeota	Crenarchaeota	3
20	Uncultured thaumarchaeota	Thaumarchaeota	1
21	Uncultured archaeon	—	2
22	Uncultured archaeon	—	1
23	Uncultured archaeon	—	3
24	Uncultured archaeon	—	2
25	Uncultured archaeon	—	13
26	Uncultured crenarchaeota	Crenarchaeota	46
27	Uncultured crenarchaeota	Crenarchaeota	16
28	Uncultured thaumarchaeota	Thaumarchaeota	16
29	Uncultured archaeon	—	1
30	Uncultured archaeon	—	92
31	Uncultured crenarchaeota	Crenarchaeota	1
32	Uncultured archaeon	—	1
33	Uncultured archaeon	—	33
34	Uncultured archaeon	—	8
35	Uncultured thaumarchaeota	Thaumarchaeota	18
36	Uncultured crenarchaeota	Crenarchaeota	8
37	Uncultured archaeon	—	1
38	Uncultured archaeon	—	51
39	Uncultured crenarchaeota	Crenarchaeota	1
40	Uncultured archaeon	—	1
41	Uncultured archaeon	—	2
42	Uncultured crenarchaeota	Crenarchaeota	1
43	Uncultured archaeon	—	1
44	Uncultured crenarchaeota	Crenarchaeota	28
45	Uncultured archaeon	—	3
46	Uncultured archaeon	—	1
47	Uncultured archaeon	—	1
48	Uncultured archaeon	—	1
49	Uncultured crenarchaeota	Crenarchaeota	3
50	Uncultured archaeon	—	1
51	Uncultured archaeon	—	29
52	Uncultured archaeon	—	5
53	Uncultured archaeon	—	1

OTU number	Closest relative	Phylum	Number of sequences
54	Uncultured archaeon	—	1
55	Uncultured archaeon	—	1
56	Uncultured archaeon	—	3
57	Uncultured crenarchaeota	Crenarchaeota	25
58	Uncultured archaeon	—	1
59	Uncultured archaeon	—	7
60	Uncultured crenarchaeota	Crenarchaeota	31
61	Uncultured archaeon	—	1
62	Uncultured archaeon	—	3
63	Uncultured archaeon	—	2
64	Uncultured archaeon	—	2
65	Uncultured archaeon	—	6
66	Uncultured archaeon	—	8
67	Uncultured archaeon	—	13

Table S2. The group of ammonia-oxidising bacterial (AOB) representative operational taxonomic unit (OTU) identities

OTU number	Closest relative	Phylum	Number of sequences
1	Uncultured bacterium	—	16
2	Uncultured bacterium	—	1
3	Uncultured bacterium	—	8
4	Uncultured bacterium	—	1
5	Uncultured bacterium	—	8
6	Uncultured bacterium	—	1
7	Uncultured bacterium	—	16
8	Uncultured bacterium	—	12
9	Uncultured bacterium	—	15
10	Uncultured bacterium	—	1
11	Uncultured bacterium	—	7
12	Uncultured bacterium	—	7
13	Uncultured bacterium	—	1
14	Uncultured bacterium	—	35
15	Uncultured betaproteobacterium	Proteobacteria	7
16	Uncultured bacterium	—	111
17	Uncultured nitrosospira sp.	Proteobacteria	35
18	Uncultured bacterium	—	61
19	Uncultured bacterium	—	31
20	Uncultured bacterium	—	78
21	Uncultured bacterium	—	1
22	Uncultured bacterium	—	13
23	Uncultured bacterium	—	8
24	Uncultured betaproteobacterium	Proteobacteria	8
25	Uncultured bacterium	—	1
26	Uncultured bacterium	—	7
27	Uncultured bacterium	—	1
28	Uncultured bacterium	—	7
29	Uncultured bacterium	—	1
30	Uncultured bacterium	—	9
31	Uncultured bacterium	—	1
32	Uncultured bacterium	—	1
33	Uncultured bacterium	—	1
34	Uncultured bacterium	—	1
35	Uncultured bacterium	—	34
36	Uncultured bacterium	—	5
37	Uncultured bacterium	—	12
38	Uncultured bacterium	—	24