Supplementary Information

Metagenomic analysis on resistance genes in water and microplastics from a mariculture system

Jian Lu [a,c], Jun Wu [b]*, Jianhua Wang[a]

[a] CAS Key Laboratory of Coastal Environmental Processes and Ecological Remediation, Yantai Institute of Coastal Zone Research (YIC), Chinese Academy of Sciences (CAS); Shandong Key Laboratory of Coastal Environmental Processes, YICCAS, Yantai Shandong 264003, China

[b] Yantai Research Institute and Graduate School, Harbin Engineering University,
Yantai, Shandong 264006, China

[c] Center for Ocean Mega-Science, Chinese Academy of Sciences, 7 Nanhai Road, Qingdao, 266071, China

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* Corresponding author: Jun Wu

E-mail address: wujunlisa@163.com (J. Wu)

Table S1 Subtypes of detected ARGs corresponding to individual digit of x-axis in Fig. 1b.

No.	Subtype	No.	Subtype
1	*aac*(2')-I	88	*acr*B
2	*aac*(3)-I	89	*acr*F
3	*aac*(3)-II	90	*ade*B
4	*aac*(3)-IIIa	91	*ade*J
5	*aac*(3)-VII	92	*amr*B
6	*aac*(3)-X	93	*bpe*F
7	*aac*(6')-30-*aac*(6')-Ib'	94	*ceo*B
8	*aac*(6')-I	95	*cme*B
9	*aac*(6')-II	96	*emr*B
10	*aad*A	97	*emr*E
11	*aad*B	98	*emr*K
12	*ant*(2'')-I	99	*mdt*B
13	*ant*(3'')-Ih-*aac*(6')-IId	100	*mdt*C
14	*ant*(9)-I	101	*mdt*D
15	*aph*(3'')-I	102	*mdt*F
16	*aph*(3')-I	103	*mdt*H
17	*aph*(6)-I	104	*mdt*K
18	viomycin phosphotransferase	105	*mdt*P
19	*bac*A	106	*mex*B
20	*bcr*A	107	*mex*C
21	*AER*-1	108	*mex*D
22	*CARB*-12	109	*mex*E
23	*CARB*-3	110	*mex*F
24	*CARB*-6	111	*mex*I
25	*CARB*-7	112	*mex*T
26	*CARB*-9	113	*mex*W
27	*Cfx*A2	114	*mex*X
28	*LEN*-1	115	*mex*Y
29	*LEN*-15	116	multidrug ABC transporter
30	*LEN*-16	117	multidrug transporter
31	*LEN*-17	118	*omp*R
32	*LEN*-19	119	*opr*C
33	*LEN*-2	120	*opr*J
34	*LEN*-20	121	*opr*M
35	*LEN*-21	122	*sde*Y
36	*LEN*-5	123	*sme*B
37	*OXA*-10	124	*sme*D
38	*OXA*-12	125	*sme*E
39	*OXA*-142	126	*arn*A

No.	Subtype	No.	Subtype
40	*OXA*-15	127	*mfp*A
41	*OXA*-209	128	*qep*A
42	*OXA*-21	129	*qnr*A
43	*OXA*-251	130	*qnr*S
44	*PSE*-1	131	*ADP*-ribosylating transferase arr
45	*TEM*-1	132	rifampin monooxygenase
46	*TEM*-117	133	*sul*1
47	*TEM*-118	134	*sul*2
48	*TEM*-177	135	*tet*32
49	*TEM*-178	136	*tet*34
50	*TEM*-187	137	*tet*35
51	*TEM*-205	138	*tet*36
52	*TEM*-57	139	*tet*39
53	*TEM*-6	140	*tet*41
54	*TEM*-75	141	*tet*43
55	*TEM*-89	142	*tet*A
56	*TEM*-91	143	*tet*B
57	class A beta-lactamase	144	*tet*C
58	metallo-beta-lactamase	145	*tet*D
59	*pen*A	146	*tet*G
60	*ble*O	147	*tet*M
61	bleomycin resistance protein	148	*tet*O
62	*cat*B	149	*tet*P
63	*cat* chloramphenicol acetyltransferase	150	*tet*Q
64	chloramphenicol and florfenicol exporter	151	*tet*V
65	chloramphenicol exporter	152	*tet*W
66	*cml*A	153	*tet*X
67	*flo*R	154	*tet*Z
68	*fos*X	155	tetracycline resistance protein
69	*ros*A	156	*dfr*A1
70	*ros*B	157	*dfr*A13
71	kasugamycin resistance protein *ksg*A	158	*dfr*A14
72	*ere*A	159	*dfr*A15
73	*erm*(35)	160	*dfr*A16
74	*erm*(38)	161	*dfr*A17
75	*erm*(39)	162	*dfr*A21
76	*erm*B	163	*dfr*A22
77	*erm*F	164	*dfr*A5
78	*lsa*	165	*dfr*A7
79	*mac*A	166	unclassified DNA-binding protein H-NS
80	*mac*B	167	unclassified bacterial regulatory protein *Lux*R
81	*mef*A	168	unclassified cAMP-regulatory protein

No.	Subtype	No.	Subtype
82	*mph*A	169	unclassified transcriptional regulatory protein *Cpx*R *cpx*R
83	*ole*B	170	*van*C
84	*vat*G	171	*van*D
85	*emr*B-*Qac*A family major facilitator transporter	172	*van*H
86	*Tol*C	173	*van*R
87	*acr*A	174	*van*S