

Assessment of Ciguatera and Other Phycotoxin-Related Risks in Anaho Bay (Nuku Hiva Island, French Polynesia): Molecular, Toxicological, and Chemical Analyses of Passive Samplers

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Table S1. Read numbers and classification levels at 98% identity for the large subunit ribosomal RNA gene region from each window screen (WS) sample collected from Anaho Bay (Nuku Hiva Island, French Polynesia) in August 2018.

Taxon	WS 1	WS 2	WS 3	WS 4	WS 5	Total	% of Dinophyceae reads
Total number of reads	147,971	154,679	157,887	165,974	126,159	752,670	/
Number of Dinophyceae reads	27,069	82,778	97,610	62,489	53,923	323,869	100
<i>Amoebophrya</i> sp.	136	2061	2995	2097	325	7614	2.35
<i>Amphidinium</i> cf. <i>carterae</i>	16	0	59	47	58	180	1.63
<i>Amphidinium</i> cf. <i>massartii</i>	184	349	346	312	330	1521	
<i>Amphidinium</i> <i>fijiensis</i>	0	13	0	0	0	13	
<i>Amphidinium</i> cf. <i>thermaeum</i>	444	982	1275	357	516	3574	
<i>Azadinium</i> sp.	0	0	0	20	0	20	0.01
<i>Azadinium</i> <i>polongum</i>	0	0	0	16	0	16	
<i>Biecheleria</i> sp.	3	28	0	19	3	53	0.02
<i>Biecheleriopsis</i> sp.	5	0	0	0	4	9	>0.01
cf. <i>Bysmatrum</i> sp.	9	0	13	2	23	47	0.01
<i>Calciodinellum operosum</i>	4	1	18	8	1	32	0.01
<i>Cochlodinium</i> sp.	2706	4295	1186	4280	107	12,574	3.88
<i>Coolia</i> sp.1	31	18	64	41	229	383	0.30
<i>Coolia</i> sp.2	48	26	95	61	344	574	
<i>Dinophysis</i> sp.	12	7	12	59	10	100	0.03
<i>Gambierdiscus carpenteri</i>	338	44	225	87	557	1251	1.78
<i>Gambierdiscus pacificus</i>	505	262	562	0	482	1811	
<i>Gambierdiscus polynesiensis</i>	201	321	1802	307	6	2637	
<i>Gambierdiscus toxicus</i>	20	22	15	0	9	66	
<i>Gymnodinium</i> cf. <i>dorsalisulcum</i>	19	131	73	162	11	314	0.12
<i>Gymnodinium</i> sp.	0	53	0	29	0	82	
<i>Gyrodiniellum</i> sp.	32	107	138	328	8	613	0.19
<i>Gyrodinium jinhaense</i>	327	1649	1193	1705	137	5011	1.55
<i>Heterocapsa</i> sp.1	0	3	0	0	0	3	0.08
<i>Heterocapsa</i> sp.2	20	44	79	92	11	246	
<i>Karenia umbella</i>	2	8	17	7	1	35	0.02
<i>Karenia</i> cf. <i>papilionacea</i>	0	16	0	0	0	16	
<i>Karlodinium</i> cf. <i>ballantinum</i>	0	325	0	109	0	434	0.2
<i>Karlodinium veneficum</i>	2	11	23	10	1	47	
<i>Karlodinium</i> sp.	4	82	0	51	0	137	
<i>Katodinium glaucum</i>	0	16	0	0	0	16	
<i>Lepidodinium chlorophorum</i>	30	45	115	74	57	321	0.10
<i>Levanderina fissa</i>	6	87	19	67	9	188	0.06
<i>Ostreopsis</i> cf. <i>ovata</i>	4233	17,746	16,353	7820	6919	53,071	47.51
<i>Ostreopsis</i> cf. <i>lenticularis</i>	463	281	459	409	375	1987	
<i>Ostreopsis</i> cf. <i>rhodesiae</i>	7845	34,106	28,841	13,315	14,696	98,803	

<i>Pelagodinium beii</i>	5	53	15	13	15	101	0.03
<i>Pentaparsodinium</i> sp.	0	0	0	0	8	8	>0.01
<i>Peridiniella</i> sp.	14	66	37	200	10	327	0.10
<i>Polykrikos</i> sp.	69	160	225	750	15	1238	0.38
<i>Prorocentrum</i> sp.1	0	36	6	27	0	69	
<i>Prorocentrum</i> sp.2	8	4	15	11	9	47	
<i>Prorocentrum rhathymum</i>	84	129	383	279	123	998	0.35
<i>Prorocentrum triestinum</i>	3	0	14	14	2	33	
<i>Scrippsiella lachrymosa</i>	1	42	84	49	5	181	0.06
<i>Stoeckeria algicida</i>	2	1	7	3	0	13	>0.01
<i>Symbiodinium</i> sp.D	7	112	0	56	19	194	
<i>Symbiodinium</i> sp.B	2	3	383	6	16	410	0.20
<i>Symbiodinium</i> sp.C	5	39	3	0	0	47	
<i>Takayama</i> sp.1	1	8	18	7	0	34	0.02
<i>Takayama</i> sp.2	2	0	35	0	0	37	
Unclassified Dinophyceae reads	9212	19,039	40,408	29,212	28,462	126,333	39.01
Unclassified reads (other Eukaryotes)	120,902	71,901	60,277	103,485	72,236	428,801	/

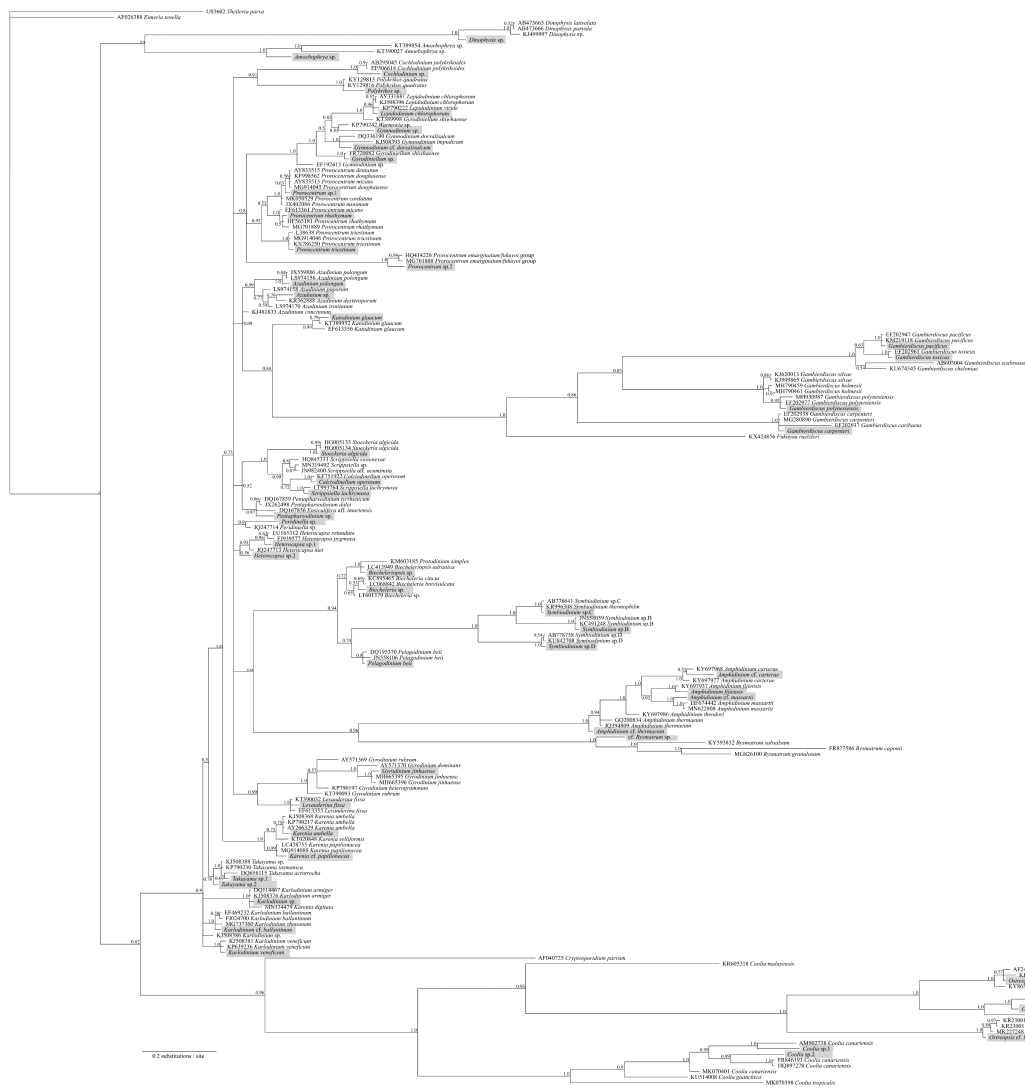


Figure S1. Phylogenetic analysis of large subunit ribosomal DNA (D1-D2 region) sequences obtained from the high-throughput sequencing metabarcoding using Bayesian analyses. Sequences in grey represent the consensus sequence from all reads of each taxonomic assignment. Values at nodes represent Bayesian posterior probability support. Scale bar is substitutions per site.