

Phylogenetic Relatedness within the Internally Brooding Sea Anemones from the Arctic-Boreal Region

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Table S1. Ecological and morphological data matrix with binary state characteristics used in building of the morphological tree.

Species	Ecological and Morphological Characters																																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
<i>Urticina grebelnyi</i>	0	0	0	0	0	1	0	0	0	0	0	2	2	1	1	1	0	0	1	1	0	0	0	0	1	0	0	1	1	0	1	0	0	0	2	2	2	0	0	2	
<i>Urticina coriacea</i>	1	0	1	1	0	1	0	0	1	0	0	2	2	1	0	1	0	0	1	1	0	0	0	0	2	0	0	1	1	0	1	0	1	0	2	2	2	0	0	2	
<i>Urticina crassicornis</i>	0	0	0	1	0	1	0	0	1	1	0	2	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0	2	2	2	0	0	2	
<i>Cribrinopsis albopunctata</i>	0	0	0	0	0	1	0	0	0	1	0	2	1	0	1	0	0	0	1	1	0	0	0	0	2	0	0	0	1	0	1	0	1	0	2	2	2	0	0	2	
<i>Cribrinopsis olegi</i>	1	0	1	0	1	0	0	0	0	1	0	2	1	1	1	1	0	0	1	1	0	0	0	0	2	0	0	1	0	0	1	0	1	1	2	2	2	1	0	2	
<i>Cribrinopsis similis</i>	0	0	0	1	0	1	0	0	1	1	0	2	1	0	1	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2	2	2	0	0	2	
<i>Aulactinia incubans</i>	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	1	0	1	0	1	0	1	1	2	0	0	2	
<i>Aulactinia stella</i>	0	0	1	1	1	0	1	0	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	1	1	0	1	0	1	0	1	2	2	0	0	2	
<i>Aulactinia verrucosa</i>	0	0	0	1	0	1	0	0	0	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0	0	0	1	2	2	0	0	2	
<i>Anthopleura atodai</i>	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	1	0	0	1	1	0	1	0	1	2	2	0	0	2
<i>Anthopleura elegantissima</i>	0	0	0	1	0	1	0	1	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	1	0	2	1	1	1	1	1	1	0	1	0	2	2	2	0	0	2
<i>Anthopleura krebsi</i>	0	0	0	1	0	1	0	1	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	1	2	2	0	0	2
<i>Anthopleura nigrescens</i>	0	0	0	1	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	2	1	1	1	1	1	1	1	1	1	0	1	2	2	0	0	2
<i>Anthopleura orientalis</i>	1	1	0	1	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	2	1	1	0	1	1	1	0	1	0	1	2	2	0	0	2	
<i>Stomphia didemon</i>	1	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	2	2	0	0	1	
<i>Stomphia selaginella</i>	0	0	0	0	0	1	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	2	0	1	1	
<i>Allantactis parasitica</i>	-	1	0	0	0	1	0	0	1	0	0	1	1	0	1	1	0	0	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	2	0	0	1	
<i>Hormathia pectinata</i>	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	1	0	0	0	1	0	1	1	2	0	0	1	
<i>Metridium senile</i>	0	1	0	0	0	1	0	1	1	0	0	2	2	1	0	0	1	0	0	0	0	1	0	0	0	1	1	1	1	1	1	0	0	0	1	1	2	2	0	1	