

Online Resource 2

Morphological character matrix of 30 polymastiid taxa and two outgroups (highlighted with bold) present in the consensus tree reconstructed from the concatenated data 28S rDNA + CO1

Paper: Molecular phylogenies challenge the classification of Polymastiidae (Porifera, Demospongiae) based on morphology

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Supplementary Table 2 Morphological character matrix of 30 polymastiid taxa and two outgroups (highlighted with bold) present in the consensus tree reconstructed from the concatenated data 28S rDNA + CO1 (see Fig. 6 in the main text). Coding of states is given in Supplementary Table 1

Taxa	Characters																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
<i>Polymastia andrica</i>	1	1	0	0	1	1	1	1	0	0	1	0	1	1	0	0	1	0	1	0	1
<i>Polymastia arctica</i>	1	1	0	0	1	1	1	1	0	0	1	0	1	0	0	0	1	0	1	0	1
<i>Polymastia bartletti</i>	1	0	0	0	1	1	1	1	0	1	0	0	1	0	0	0	1	0	1	0	1
<i>Polymastia cf. bartletti</i>	1	0	0	0	1	1	1	1	0	1	0	0	1	0	0	0	1	0	1	0	1
<i>Polymastia boletiformis</i>	0	0	1	0	1	1	1	1	0	1	0	1	1	0	0	0	1	1	1	0	0
<i>Polymastia cf. conigera</i>	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0	1	0	1	0	1
<i>Polymastia corticata</i>	0	0	1	0	1	1	1	1	0	0	0	0	1	0	0	0	1	1	1	0	1
<i>Polymastia euplectella</i>	1	0	0	0	1	1	1	1	0	1	0	0	1	0	0	0	1	0	1	0	1
<i>Polymastia grimaldii</i>	2	1	0	1	1	1	1	1	0	0	1	0	1	0	1	1	1	0	1	0	1
<i>Polymastia invaginata</i>	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Polymastia mamillaris</i>	1	1	0	0	1	1	1	1	0	0	1	0	1	0	0	0	1	0	1	0	1

Supplementary Table 2 (continued)

Taxa	Characters																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
<i>Polymastia penicillus</i>	1	1	0	0	1	1	1	1	0	0	0	0	1	0	0	0	1	0	1	0	1
<i>Polymastia</i> sp. 1	1	1	0	0	1	1	1	1	0	0	1	0	1	0	0	0	1	0	1	0	1
<i>Polymastia</i> sp. 2	1	1	0	0	1	1	1	1	0	0	1	0	1	0	0	0	1	0	1	0	1
<i>Polymastia thielei</i>	0	0	1	0	1	1	1	0	0	1	0	1	1	0	0	0	1	1	1	0	1
<i>Polymastia uberrima</i>	0	0	1	0	1	1	1	0	0	1	0	0	1	0	0	0	1	0	1	0	1
<i>Quasillina brevis</i>	3	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	n/a	1	0	0
<i>Radiella hemisphaerica</i>	2	0	0	1	1	1	1	0	0	1	0	0	1	0	1	1	1	0	1	0	1
<i>Radiella sarsi</i>	2	1	0	1	1	0	0	0	0	0	0	0	1	0	1	1	1	0	1	0	1
<i>Radiella</i> cf. <i>sarsi</i>	2	1	0	0	1	0	0	0	0	0	0	0	1	0	1	1	1	0	1	0	1
<i>Radiella</i> sp.	2	1	0	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0	1
<i>Sphaerotylus antarcticus</i>	1	1	0	0	1	1	1	1	0	0	0	0	1	1	0	0	1	0	1	0	1
<i>Sphaerotylus borealis</i>	1	1	0	0	1	1	1	1	0	0	0	0	1	1	0	0	1	0	1	0	1

Supplementary Table 2 (continued)

Taxa	Characters																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
<i>Sphaerotylus capitatus</i>	1	1	0	0	1	1	0	0	0	0	0	0	1	1	0	0	1	0	1	0	1
<i>Sphaerotylus</i> sp. 1	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0	1	0	1	0	1
<i>Sphaerotylus</i> sp. 2	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0	1	0	1	0	1
<i>Spinularia spinularia</i>	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0
<i>Tentorium papillatum</i>	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Tentorium semisuberites</i>	3	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1
<i>Weberella bursa</i>	0	0	1	0	1	1	1	0	0	1	0	1	1	0	0	0	1	1	1	0	0
<i>Suberites ficus</i>	0	0	1	0	0	n/a	n/a	0	1	1	0	0	0	0	0	0	0	n/a	1	1	0
<i>Tethya citrina</i>	0	1	1	0	0	n/a	n/a	0	1	1	0	0	0	0	0	0	1	0	0	1	0