

# Supplementary Material

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**Supplementary Table S1.** Information on specimens included in molecular analyses

Species	Voucher	Collection site and date	COI-5P	<i>rbcL</i>
<i>Alsidium corallinum</i> C. Agardh	PD2018	Ancona, Italy; Jul 28, 2015	MF094017	-
	PD2013	Ancona, Italy; Jul 28, 2015	-	MF094034
<i>Bryothamnion seaforthii</i> (Turner) Kützting	PD644	Ponta Castelhanos, Espírito Santo, Brazil; Apr 9, 2014	MF093968	MF101430
<i>Bryothamnion triquetrum</i> (S. G. Gmelin) M. Howe	NR347	Boca del Río, Veracruz, Mexico; May 29, 2014	MF094020	MF094041
<i>Digenea arenahauriens</i> C. W. Schneider, Hamzeh & G. W. Saunders	CWS/CEL 10-22-9 (BDA0344)	Capt. William's Bay, Bermuda Is., Bermuda; Aug 23, 2010	HQ933355	-
<i>D. arenahauriens</i>	CWS 10-33-14 (BDA0503)	Spanish Point Park, Bermuda Is., Bermuda; Aug 25, 2010	HQ933436	MG648068
<i>D. cymatophila</i> (R. E. Norris) Díaz-Tapia & Maggs	ARS03736	Sandy Beach, O'ahu, Hawaii; Apr 19, 2008	HQ422944	-
<i>D. mexicana</i> G. H. Boo & D. Robledo	CNU080663	Playa Xcalacoco (20°39'42.84" N, 87°01'56.78" W), Quintana Roo, Mexico; Apr 19, 2018; holotype	<b>MH514874</b>	<b>MH514862</b>
<i>D. mexicana</i>	CNU080664	Playa Xcalacoco (20°39'42.84" N, 87°01'56.78" W), Quintana Roo, Mexico; Apr 19, 2018; isotype	<b>MH514875</b>	<b>MH514863</b>
	CNU080665	Playa Xcalacoco (20°39'42.84" N, 87°01'56.78" W), Quintana Roo, Mexico; Apr 19, 2018; isotype	<b>MH514876</b>	<b>MH514864</b>
	CNU080666	Playa Xcalacoco (20°39'42.84" N, 87°01'56.78" W), Quintana Roo, Mexico; Apr 19, 2018; isotype	<b>MH514877</b>	<b>MH514865</b>
	CNU080668	Playa Xcalacoco (20°39'42.84" N, 87°01'56.78" W), Quintana Roo, Mexico; Apr 19, 2018; isotype	<b>MH514878</b>	<b>MH514866</b>
<i>D. rafaелиi</i> G. H. Boo, G. Andrade-Sorcía & S. M. Boo	CNU037775	Bahía de Kino (28°49'09" N, 111°56'22" W), La Cruces, Sonora, Mexico; May 16, 2010; holotype	<b>MH514879</b>	<b>MH514867</b>
<i>D. rafaелиi</i>	CNU037775-1	Bahía de Kino (28°49'09" N, 111°56'22" W), La Cruces, Sonora, Mexico; May 16, 2010; isotype	<b>MH514880</b>	<b>MH514868</b>
	CNU037776	Las Conchas (31°17'42" N, 113°32'14" W), Puerto Peñasco, Sonora, Mexico; May 12, 2010	<b>MH514881</b>	<b>MH514869</b>
	CNU058249	Conquista Agraria (23°57'19.21" N, 110°52'26" W), Baja California Sur, Mexico; Feb 27, 2014	<b>MH514882</b>	<b>MH514870</b>
	CNU058291	Cabo San Lucas (22°52'21" N, 109°54'51" W), La Paz, Baja California Sur, Mexico; Mar 1, 2014	<b>MH514883</b>	<b>MH514871</b>
<i>D. simplex</i> (Wulfen) C. Agardh	PhL-RM001	Ksour Essef, Tunisia, Mediterranean Sea; Feb 5, 2014	MG030761	-
<i>Digenea</i> sp.	PD1820	Drummond Cove, Western Australia, Australia; Mar 27, 2015	MF093979	MF101465
	CNU037719	Sesoko Island, Okinawa, Japan; Jul 30, 2009	<b>MH514884</b>	<b>MH514872</b>
	CNU037719-1	Sesoko Island, Okinawa, Japan; Jul 30, 2009	<b>MH514885</b>	<b>MH514873</b>

Bold indicates sequences generated in this study.