

Supplemental Table 1. List of Recent taxa studied with their traditional subordinal and familial attributions. Excludes ancestrulae of completely unknown identity. Protoecium pseudopore pattern types are: 1 = no pseudopores; 2 = sparse; 3 = peripheral row; 4 = peripheral row and distomedial pair; 5 = peripheral row plus sparse central; 6 = peripheral band; 7 = central only; 8 = pan-protoecial; n/a = interior walled and therefore lacking pseudopores; iw = interior-walled protoecium lacking pseudopores.

Suborder	Family	Species	SEM nos	Pattern
Articulata	Crisiidae	<i>Filicrisia geniculata</i>	pdt13490 pdt13496 pdt13509 pdt13513 pdt13522	1
Cancellata	Horneridae	<i>Hornera ?robusta</i>	pdt0397, pdt17323, pdt17325, pdt17517	iw
Ceriporina	Heteroporidae	<i>'Heteropora'</i> <i>neozelanica</i>	pdt16000, pdt16010	6
Tubuliporina	Annectocymidae	<i>Annectocyma major</i>	pdt17302	7
		<i>Annectocyma</i> cf. <i>major</i> [Croatia]	52127	7
		<i>Annectocyma</i> sp. [New Zealand]	pdt0194	6?
		<i>Entalophoroecia deflexa</i>	pdt17252, pdt15994, pdt17246, pdt17249, pdt17451, pdt17439	5
	Crisuliporidae	<i>Crisulipora occidentalis</i>	pdt15853	8

Cytitidae	? <i>Telopora</i> spp.	pdt17211, pdt17233, pdt17235, pdt17237, pdt17239, pdt10425, pdt17515,	1
Diaperoeciidae	<i>Diaperoecia</i> <i>purpurascens</i> cf. <i>Diaperoecia</i> [Japan]	pdt15986 MW0239, MW0259	6 8(?)
Frondiporidae	<i>Filifascigera</i> sp. [New Zealand] ? <i>Fasciculiporoides</i> <i>americana</i>	pdt17507 pdt17443	8 ?
Hastingsiidae	' <i>Hastingsia</i> ' <i>whitteni</i> ' <i>Hastingsia</i> '	pdt17872, pdt17878 pdt15864	6 6
Oncousoeciidae	<i>Microeciella</i> <i>suborbicularis</i> <i>Microeciella</i> aff. <i>suborbicularis</i> [Mediterranean] ? <i>Microeciella</i> <i>compacta</i> <i>Oncousoecia</i> <i>diastoporodes</i> <i>Oncousoecia dilatans</i> <i>Oncousoecia</i> sp. 1 [English Channel]	pdt8362, pdt8367, pdt17268, pdt17271, pdt17272, pdt17278, pdt17286, pdt17289 pdt17200 pdt17427 pdt8311, pdt8383 pdt17259	4 5 2? 6? 4 ?3

	<i>Oncousoecia</i> sp. 2	pdt17159,	3
	[Russia]	pdt17181	
Plagioeciidae	<i>Diplosolen obelium</i>	pdt17431	3
	<i>Liripora</i>	28813	3
	<i>pseudosarniensis</i>		
	<i>Plagioecia patina</i>	pdt17405,	3
		pdt17493,	
		pdt17453	
	<i>Plagioecia sarniensis</i>	pdt17190,	5
	[Mediterranean]	pdt17194,	
		pdt17198,	
		pdt17282,	
		pdt17288,	
		pdt17290,	
		pdt17292	
	<i>Plagioecia</i> cf.	pdt17161	3?
	<i>sarniensis</i> [Russia]		
	? <i>Plagioecia</i> cf.	pdt17179	?
	<i>sarniensis</i>		
Stomatoporidae	<i>Stomatoporina</i>	pdt17255	3
	<i>incurvata</i>		
Tubuliporidae	? <i>Exidmonea triforis</i>	pdt17455	1/2?
	<i>Platonea</i> sp. 1 [NZOI	pdt17205	1
	Station B235]		
	<i>Platonea</i> sp. 2 [Otago	pdt17214,	1
	Shelf, New Zealand]	pdt17220	
	<i>Platonea</i> sp. 3 [Otago	pdt17217	3
	Shelf, New Zealand]		
	<i>Platonea</i> sp. 4 [Otago	pdt17223	1
	Shelf, New Zealand]		
	<i>Tubulipora liliacea</i>	MW0363	1(?)
	<i>Tubulipora lobifera</i>	pdt17263	1
	<i>Tubulipora</i>	pdt17307,	1
	<i>occidentalis</i>	pdt17313,	

		pdt17318, pdt17320, pdt17322	
	<i>Tubulipora plumosa</i>	pdt13535, pdt17296	1
	<i>Tubulipora ziczac</i>	pdt17187, pdt17189, pdt17192	1
	<i>Tubulipora ?hemisepta</i>	MW0449	1(?)
	<i>Tubulipora</i> sp. [blue, New Zealand]	MW0170	1
	? <i>Tubulipora</i> sp. [English Channel]	pdt17273	1
	<i>Tubulipora</i> sp. 1 [‘blue’, Japan]	MW0322	1
	<i>Tubulipora</i> sp. 2 [Otago Shelf, New Zealand]	MW0003	1
	<i>Tubulipora</i> sp. 3 [‘long branches’]	MW0406	1
	<i>Tubulipora</i> sp. 4 [‘big Tubulipora’]	MW0414	1
	<i>Tubulipora</i> sp. 5 [Marseille]	MW0497	?
Incertae sedis	‘ <i>Stomatopora</i> <i>subrotunda</i>	8224, 43768	2
	large tubuliporine [New Zealand; probably <i>Diaperoecia</i> <i>purpurascens</i>]	MW0181	6
	big tubuliporine [New Zealand; possibly <i>D.</i> <i>purpurascens</i>]	207	6

		erect tubuliporine [New Zealand]	MW0504	1
		tubuliporine with pustulose protoecium [Japan]	MW0242	1(?)
Rectangulata	Lichenoporidae	<i>Disporella hispida</i>	pdt17504, 1328, 1242, pdt13544, pdt13545, pdt8385	1
		<i>Disporella</i> cf. <i>gordoni</i>	MW0641, MW0647	1
		<i>Disporella</i> cf. <i>mamillata</i>	29951, 39443	1
		<i>Disporella</i> sp. [Otago Shelf, New Zealand]	MW0120	1
		lichenoporid sp. 2 [Japan]	pdt17141, pdt17142, pdt17144, pdt17145, pdt17148, pdt17149, pdt17150, pdt17151, pdt17152, pdt17154, pdt17155, pdt17156	1
		lichenoporid sp. 3 [Russia]	pdt17166	1
Incertae sedis	Cinctiporidae	<i>Cinctipora elegans</i>	Anna Wood1, Anna Wood2; SP37 661	8
		<i>Attinopora zealandica</i>	NIWA 73130-3	8
