

Supplementary Information

Phylogenetic distribution of bromophenols in marine algae and the generation of a comprehensive bromophenol database

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Table S2: Updated names of algae included in this review according to (Guiry and Guiry 2022) in alphabetical order.

Currently accepted name	Name in original publication
<i>Carradoriella elongata</i>	<i>Polysiphonia elongata</i>
<i>Chondrophycus cartilagineus</i>	<i>Laurencia cartilaginea</i>
<i>Chondrophycus concretus</i>	<i>Laurencia concreta</i>
<i>Chondrophycus intermedius</i>	<i>Laurencia intermedia</i>
<i>Corallina aberrans</i>	<i>Marginisporum abberans</i>
<i>Cystophora retroflexa</i>	<i>Cystophora congesta</i>
<i>Laurencia dendroidea</i>	<i>Laurencia majuscula</i>
<i>Leathesia marina</i>	<i>Leathesia nana</i>
<i>Leptosiphonia brodiei</i>	<i>Polysiphonia brodiei</i>
<i>Melanothamnus ferulaceus</i>	<i>Polysiphonia ferulacea</i>
<i>Melanothamnus sphaerocarpus</i>	<i>Polysiphonia sphaerocarpa</i>
<i>Mesophyllum fragilissimum</i>	<i>Lithothamnium fragilissimum</i>
<i>Osmundaria obtusilobia</i>	<i>Vidalia obtusilobia</i>
<i>Osmundea pinnatifida</i>	<i>Laurencia pinnatifida</i>
<i>Palisada perforata</i>	<i>Chondrophycus papillosus</i>
<i>Palisada capituliformis</i>	<i>Laurencia capituliformis</i>
<i>Polysiphonia stricta</i>	<i>Polysiphonia urceolata</i>
<i>Rhodomela confervoides</i>	<i>Rhodomela subfusca</i>
<i>Vertebrata decipiens</i>	<i>Polysiphonia decipiens</i>
<i>Vertebrata fucoides</i>	<i>Polysiphonia nigrescens</i>
<i>Vertebrata fucoides</i>	<i>Polysiphonia violacea</i>
<i>Vertebrata lanosa</i>	<i>Polysiphonia lanosa</i>
<i>Vertebrata nigra</i>	<i>Polysiphonia nigra</i>
<i>Vertebrata thuyoides</i>	<i>Polysiphonia thuyoides</i>

Table S3: Basic bromophenols widespread in marine algae according to (Chung et al., 2003; Flodin et al., 1999; Flodin & Whitfield, 2000; Kim et al. 2008; Whitfield et al., 1999). Species names are stated as in the original publications and updated names and families were added according to (Guiry & Guiry, 2022). The presence of a compound is indicated by an X. Compound abbreviation are as follows: 2-bromophenol (**2-BP**), 4-bromophenols (**4-BP**), 2,4-dibromophenols (**2,4-DBP**), 2,6-dibromophenol (**2,6-DBP**), 2,4,6-tribromophenol (**2,4,6-TBP**).

Species	Updated name	Family	2-BP	4-BP	2,4-DBP	2,6-DBP	2,4,6-TBP	Reference
Red algae								
<i>Amphiroa anceps</i>	-	Lithophyllaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Callophycus tridentifer</i>	-	Placentophoraceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Cheilosporum sagittatum</i>	<i>Jania sagittata</i>	Corallinaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Chondria succulenta</i>	-	Rhodomelaceae, Chondriaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Corallina berteri</i>	-	Corallinaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Corallina officinalis</i>	-	Corallinaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Delisea pulchra</i>	-	Bonnemaisoniaceae	X		X	X	X	(Whitfield et al., 1999)
<i>Galaxaura marginata</i>	<i>Dichotomaria marginata</i>	Galaxauraceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Galaxaura obtusata</i>	<i>Dichotomaria obtusata</i>	Galaxauraceae	X		X	X	X	(Whitfield et al., 1999)
<i>Gracilaria edulis</i>	-	Gracilariaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Gracilaria secundata</i>	-	Gracilariaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Grateloupia elliptica</i>	-	Grateloupiaceae			X			(Kim et al. 2008)

<i>Halptilon roseum</i>	<i>Jania rosea</i>	Corallinaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Halymenia floresia</i>	<i>Halymenia floresii</i>	Halymeniaceae	X		X	X	X	(Whitfield et al., 1999)
<i>Lomentaria catenata</i>	<i>Fushitsunagia catenata</i>	Lomentariaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Polysiphonia sphaerocarpa</i>	<i>Melanothamnus sphaerocarpus</i>	Rhodomelaceae, Streblocladiaceae	X	X	X	X	X	(Flodin & Whitfield, 2000)
<i>Porphyra columbina</i>	<i>Pyropia columbina</i>	Bangiaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Plocamium angustatum</i>	<i>Plocamium angustum</i>	Plocamiaceae		X	X	X	X	(Whitfield et al., 1999)
<i>Pterocladia capillacea</i>	-	Pterocladaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Pterocladia lucida</i>	-	Pterocladaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Solieria robusta</i>	-	Solieriaceae	X	X	X	X	X	(Whitfield et al., 1999)
Brown algae								
<i>Cladostephus spongiosus</i>	-	Cladostephaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Colpomenia sinuosa</i>	-	Scytosiphonaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Cystophora intermedia</i>	-	Sargassaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Cystophora moniliformis</i>	-	Sargassaceae		X	X	X	X	(Whitfield et al., 1999)
<i>Ecklonia radiata</i>	-	Lessoniaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Endarachne binghamiae</i>	<i>Petalonia binghamiae</i>	Scytosiphonaceae	X		X	X	X	(Whitfield et al., 1999)
<i>Halopteris paniculata</i>	-	Stypocaulaceae	X	X	X	X	X	(Whitfield et al., 1999)

<i>Halopteris platycena</i>	-	Stypocaulaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Homoeostrichus sinclairii</i>	-	Dictyotaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Hormosira banksii</i>	-	Hormosiraceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Lobophora variegata</i>	-	Dictyotaceae	X ^a	X ^a	X	X	X	(Chung et al., 2003; Whitfield et al., 1999)
<i>Padina arborescens</i>	-	Dictyotaceae	X	X	X	X	X	(Chung et al., 2003)
<i>Phyllospora comosa</i>	-	Seirococcaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Sargassum erosum</i>	-	Sargassaceae	X		X	X	X	(Whitfield et al., 1999)
<i>Sargassum globulariifolium</i>	-	Sargassaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Sargassum lophocarpum</i>	-	Sargassaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Sargassum neurophorum</i>	-	Sargassaceae	X		X	X	X	(Whitfield et al., 1999)
<i>Sargassum polyacanthum</i>	-	Sargassaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Sargassum siliquastrum</i>	-	Sargassaceae	X	X	X	X	X	(Chung et al., 2003)
<i>Sporochnus comosus</i>	-	Sporochnaceae	X	X	X	X	X	(Whitfield et al., 1999)
Green algae								
<i>Caulerpa cactoides</i>	-	Caulerpaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Chlorodesmis major</i>	-	Halimedaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Cladophoropsis herpestica</i>	<i>Lychaete herpestica</i>	Cladophoraceae	X	X	X	X	X	(Whitfield et al., 1999)

<i>Codium fragile</i>	-	Codiaceae		X	X	X	X	(Whitfield et al., 1999)
<i>Codium galeatum</i>	-	Codiaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Codium lucasii</i>	-	Codiaceae	X		X	X	X	(Whitfield et al., 1999)
<i>Enteromorpha intestinalis</i>	<i>Ulva intestinalis</i>	Ulvaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Halimeda cuneata</i>	-	Halimedaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Halimeda discoidea</i>	-	Halimedaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Halimeda opuntia</i>	-	Halimedaceae	X	X	X	X	X	(Whitfield et al., 1999)
<i>Ulva lactuca</i>	-	Ulvaceae	X	X	X	X	X	(Flodin et al., 1999; Whitfield et al., 1999)

^a Occurrence only reported by one of the two references