

Supplementary material

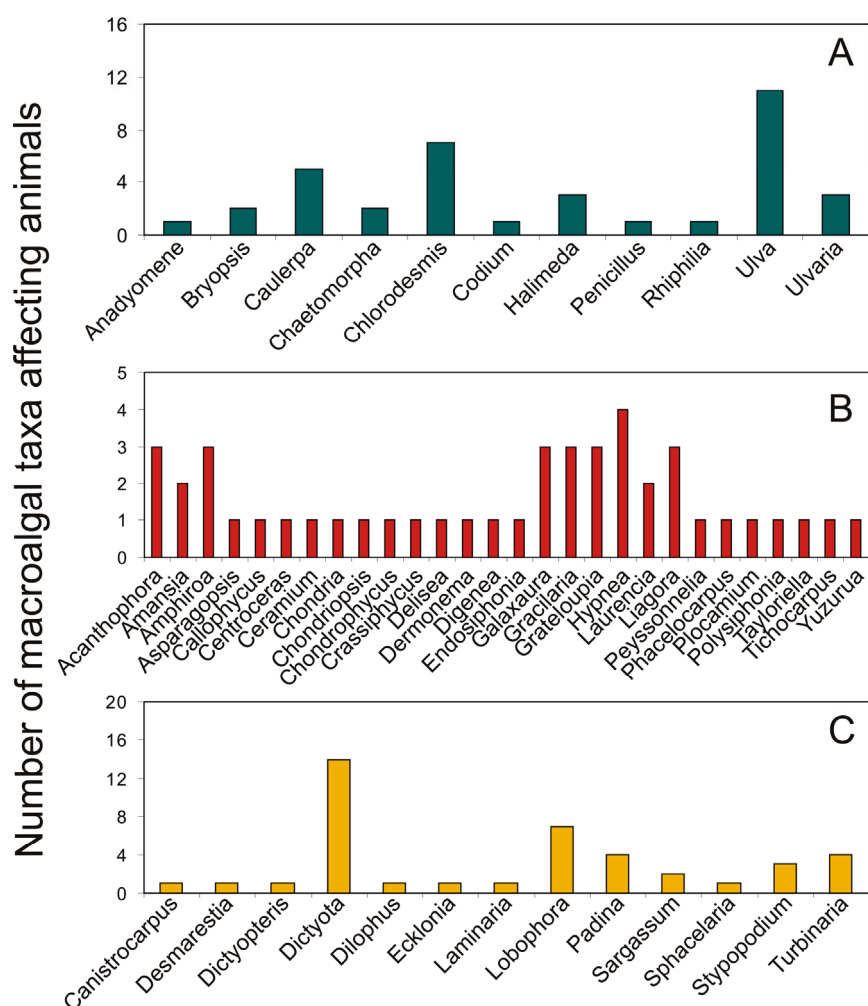


Figure S1. Number of allelopathic green algae (A), red algae (B), and brown algae (C) affecting aquatic animals based on taxa found in the literature.

Table S1. Studies on donor macroalgae against aquatic organisms published in 32 scientific papers.

Article	Place of origin	Macroalgae species	Phylum
1. Andras et al. (2012)	Votua Reef, Viti Levu, Fiji	<i>Callophycus densus</i>	Rhodophyta
		<i>Phacelocarpus neurymenioides</i>	
		<i>Plocamium pacificum</i>	
		<i>Rhiphilia pencilloides</i>	
2. Co Sin et al. (2012)	St John's Island, Singapore	<i>Bryopsis corymbose</i>	Chlorophyta
		<i>Halimeda opuntia</i>	
		<i>Lobophora variegata</i>	
3. Birrell et al., (2008)	Lizard Island on the Australian Great Barrier Reef	<i>Padina</i> sp.	Phaeophyta
		<i>Chlorodesmis fastigiata</i>	
4. Bonaldo and Hay (2014)	Coral Coast of Viti Levu, Fiji	<i>Galaxaura filamentosa</i>	Rhodophyta
		<i>Chlorodesmis fastigiata</i>	
5. Del Monaco et al. (2017)	Heron Island, GBR, Australia	<i>Chlorodesmis fastigiata</i>	Chlorophyta
		<i>Amansia glomerata</i>	
		<i>Canistrocarpus</i> sp.	
6. Fong et al. (2019)	Pulau Hantu, Pulau Subar Darat, and Kusu Island, Singapore	<i>Bryopsis</i> sp.	Chlorophyta
		<i>Endosiphonia horrida</i>	
		<i>Hypnea pannosa</i>	

			<i>Lobophora</i> sp.	Phaeophyta
			<i>Dictyota</i> sp.	Phaeophyta
7.	Kuffner et al. (2006)	Long Key, Florida, USA	<i>Lobophora variegata</i>	Rhodophyta
			<i>Chondrophycus poiteaui</i>	Chlorophyta
			<i>Chlorodesmis fastigiata</i>	
8.	Longo and Hay (2017)	Moorea, French Polynesia	<i>Amansia rhodantha</i>	Rhodophyta
			<i>Asparagopsis taxiformis</i>	
			<i>Dictyota bartayresiana</i>	Phaeophyta
			<i>Turbinaria ornata</i>	
9.	Huggett et al. (2005)	New South Wales, Sydney, Australia	<i>Ulva australis</i>	Chlorophyta
			<i>Ulva compressa</i>	
			<i>Ulvaria obscura</i>	
10.	Morrow et al., (2012)	Belize, Florida Keys, USA	<i>Halimeda tuna</i>	Chlorophyta
		Belize	<i>Dictyota</i> sp.	Phaeophyta
		Saint Thomas, U.S. Virgin Islands	<i>Lobophora variegata</i>	Phaeophyta
11.	Nelson et al. (2003)	Parks Bay, Shaw Island, San Juan County, Washington, USA	<i>Ulva fenestrata</i>	Chlorophyta
			<i>Ulva lens</i>	
12.	Olsen et al. (2014)	Florida Keys, USA	<i>Dictyota menstrualis</i>	Phaeophyta
13.	Paul et al. (2011)	Long Key, Florida, USA	<i>Dictyota pinnatifida</i>	Phaeophyta
			<i>Dictyota pulchella</i>	
			<i>Chlorodesmis fastigiata</i>	Chlorophyta
			<i>Amphiroa crassa</i>	
14.	Rasher et al. (2011)	Votua Reef, Viti Levu, Fiji	<i>Galaxaura filamentosa</i>	Rhodophyta
			<i>Liagora</i> sp.	
			<i>Dictyota bartayresiana</i>	
			<i>Padina boryana</i>	Phaeophyta
			<i>Turbinaria conoides</i>	
			<i>Chlorodesmis fastigiata</i>	Chlorophyta
			<i>Amphiroa crassa</i>	
			<i>Galaxaura filamentosa</i>	Rhodophyta
15.	Ritson-Williams et al. (2016)	Florida Keys, USA	<i>Liagora</i> sp.	
			<i>Dictyota bartayresiana</i>	
			<i>Padina boryana</i>	Phaeophyta
			<i>Sargassum polycystum</i>	
			<i>Turbinaria conoides</i>	
16.	Ritson-Williams et al. (2020)	Carrie Bow Cay, Belize	<i>Dictyota bartayresiana</i>	Phaeophyta
			<i>Dictyota pulchella</i>	
			<i>Lobophora</i> sp.	
			<i>Chlorodesmis fastigiata</i>	Chlorophyta
17.	Tanner (1995)	Heron Island, Great Barrier Reef, Australia	<i>Halimeda</i> spp.	Rhodophyta
			<i>Peyssonnelia</i> spp.	Phaeophyta
			<i>Turbinaria ornata</i>	Phaeophyta
18.	Vieira et al. (2016)	New Caledonia	<i>Lobophora</i> sp.	
19.	Webster et al. (2015)	Ningaloo Reef, Australia	<i>Sphacelaria</i> sp.	Phaeophyta
20.	Green-Gavrielidis et al. (2018)	Narragansett Bay, Rhode Island, USA	<i>Ulva compressa</i>	Chlorophyta
			<i>Ulva lactuca</i>	
			<i>Ulva obscura</i>	
21.	Nelson and Gregg (2013)	Seattle, Washington, USA	<i>Ulva lactuca</i>	Chlorophyta
			<i>Ulvaria obscura</i>	
22.	Muñoz et al. (2012)	La Herradura Bay in Coquimbo, Chile	<i>Ulva</i> sp.	Chlorophyta
23.	Van Alstyne et al. (2014)	Shannon Point Marine Center, Anacortes, Washington, USA	<i>Ulvaria obscura</i>	Chlorophyta
24.	Warkus et al. (2010)	Gulf of Maine	<i>Chaetomorpha</i> spp.	
			<i>Codium fragile</i>	Chlorophyta
			<i>Enteromorpha</i> spp.	
			<i>Ulva lactuca</i>	

25.	Alvarez-Hernández et al. (2019)		<i>Grateloupia turu turu</i>	Rhodophyta
			<i>Polysiphonia denudata</i>	
			<i>Desmarestia viridis</i>	Phaeophyta
			<i>Laminaria</i> spp.	
		Dzilam de Bravo, Mexico	<i>Anadyomene stellata</i>	
		Mexican Caribbean, the Puerto		
		Morelos reef, Mexico	<i>Caulerpa cupressoides</i>	
		Mexican Caribbean, the Puerto		
		Morelos reef, Mexico	<i>Caulerpa cupressoides</i>	
		Mexican Caribbean, the Puerto		
		Morelos reef, Mexico	<i>Caulerpa cupressoides</i>	Chlorophyta
		Chelem, Mexico	<i>Caulerpa paspaloides</i>	
		Faro de Bucerías, Mexico	<i>Caulerpa racemosa</i>	
		Faro de Bucerías, Mexico	<i>Chaetomorpha antennina</i>	
		Mexican Caribbean, the Puerto		
		Morelos reef, Mexico	<i>Penicillus capitatus</i>	
		Costa de Oro, Mexico	<i>Acanthophora spicifera</i>	
		Mexican Caribbean, the Puerto		
		Morelos reef, Mexico	<i>Acanthophora spicifera</i>	
		Dzilam de Bravo, Mexico	<i>Acanthophora spicifera</i>	
		Faro de Bucerías, Mexico	<i>Amphiroa beauvoisii</i>	
		La Barrita, Mexico	<i>Centroceras clavulatum</i>	
		Mexican Caribbean, the Puerto		
		Morelos reef, Mexico	<i>Ceramium nitens</i>	
		Costa de Oro, Mexico	<i>Chondria littoralis</i>	
		Mexican Caribbean, the Puerto		
		Morelos reef, Mexico	<i>Chondriopsis dasyphylla</i> f. <i>pyrifer</i>	
		Costa de Oro, Mexico	<i>Crassiphycus caudatus</i> (<i>Gracilaria caudata</i>)	Rhodophyta
		Puerto Vicente Guerrero, Mexico	<i>Dermonema virens</i>	
		Mexican Caribbean, the Puerto		
		Morelos reef, Mexico	<i>Digenea simplex</i>	
		Boca del Río, Mexico	<i>Gracilaria cervicornis</i>	
		Costa de Oro, Mexico	<i>Gracilaria cervicornis</i>	
		Costa de Oro, Mexico	<i>Gracilaria tikvahiae</i>	
		Boca del Río, Mexico	<i>Grateloupia filicina</i>	
		Alvarado harbour, Mexico	<i>Grateloupia filicina</i>	
		Boca del Río, Mexico	<i>Hypnea musciformis</i>	
		Costa de Oro, Mexico	<i>Hypnea musciformis</i>	

		La Barrita, Mexico	<i>Hypnea spinella</i>	
		Mexican Caribbean, the Puerto Morelos reef, Mexico	<i>Laurencia obtusa</i>	
		Champotón, Mexico	<i>Laurencia obtusa</i>	
		Mexican Caribbean, the Puerto Morelos reef, Mexico	<i>Liagora ceranoides</i>	
		Punta San Telmo, Mexico	<i>Tayloriella dictyurus</i>	
		Champotón, Mexico	<i>Yuzurua poiteaui</i> var. <i>gemmifera</i>	
		Mexican Caribbean, the Puerto Morelos reef, Mexico	<i>Dictyopteris delicatula</i>	
		Celestún, Mexico	<i>Dictyota implexa</i>	
		Punta San Telmo, Mexico	<i>Dictyota bartayresiana</i>	
		Mexican Caribbean, the Puerto Morelos reef, Mexico	<i>Lobophora variegata</i>	Phaeophyta
		Faro de Bucerías, Mexico	<i>Padina gymnospora</i>	
		Faro de Bucerías, Mexico	<i>Sargassum liebmannii</i>	
		Mexican Caribbean, the Puerto Morelos reef, Mexico	<i>Stypopodium zonale</i>	
26.	Gerwick et al. (1979)	Carrie Bow Cay, Belize	<i>Stypopodium zonale</i>	Phaeophyta
27.	Gerwick et al. (1981)	Carrie Bow Cay, Belize	<i>Stypopodium zonale</i>	Phaeophyta
28.	Williamson et al. (2000)	Bare Island, Sydney, Australia	<i>Delisea pulchra</i>	Rhodophyta
			<i>Ecklonia radiata</i>	Phaeophyta
29.	Ishii et al. (2004)	Kushiro, Hokkaido, Japan	<i>Tichocarpus crinitus</i>	Rhodophyta
30.	Barbosa et al. (2004)	Atol das Rocas, Rio Grande do Norte, Brazil	<i>Dictyota pfaffi</i>	Phaeophyta
31.	Suzuki et al. (2002)	Awashima Island, Niigata, Japan	<i>Dilophus okamurae</i>	Phaeophyta
32.	Tanaka and Higa (1984)	Kin-cho, Okinawa, Japan	<i>Dictyota spinulosa</i>	Phaeophyta
