

Review

Bioactive natural products and biomaterials from marine invertebrates: from basic research to innovative applications.

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Supplementary Material

Supplementary Table S1. Sponges bioactive natural products isolated from 2010 to 2019. (Sorted alphabetically according to Class/Subclass and then to Chemical class of compounds)

| Class/Subclass | Producer species | Chemical class of compounds | Compound(s) | Activity/toxicity | References |
|---|-----------------------------|-----------------------------|-----------------------------|-------------------------------------|------------|
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| Calcarea/Calcinea | <i>Leucetta microraphis</i> | Alkaloids | Spiroaadimine | Antimicrobial | [1] |
| Calcarea/Calcinea | <i>Leucetta sp.</i> | Alkaloids | Polyacetylene alkaloids (1) | Cytotoxic against tumour cell lines | [2] |
| Calcarea/Calcinea | <i>Latrunculia austini</i> | Alkaloids | Aleutianamine | Cytotoxic against cancer cell lines | [3] |
| Calcarea/Calcinea | <i>Latrunculia biformis</i> | Alkaloids | Tsitsikammamines | Cytotoxic against cancer cell lines | [4] |
| Calcarea/Calcinea | <i>Latrunculia biformis</i> | Alkaloids | Discorhabdin D-L (3) | Cytotoxic against cancer cell lines | [5] |
| Calcarea/Calcinea | <i>Leucetta chagosensis</i> | Alkaloids | Chagosendines A-C | Cytotoxic against cancer cell lines | [6] |

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| Calcarea/Calcinea | <i>Leucetta chagosensis</i> | Alkaloids | Imidazole derivatives (5) | Cytotoxic against cancer cell lines | [7] |
| Calcarea/Calcinea | <i>Pericharax heterorapis</i> | Alkaloids | Naamidine J | Cytotoxic against cancer cell lines | [8] |
| Demospongiae | Verongida (Order) and Thorectidae (Family) | Polyketides | Isoascorbic acid derivative | Enzyme inhibition | [9] |
| Demospongiae/ Heteroscleromorpha | <i>Niphates sp</i> | Alcohol | Pellynols M–O | Cytotoxic against cancer cell lines | [10] |
| Demospongiae/ Heteroscleromorpha | <i>Ecionemia geodides</i> | Alkaloids | Pyridoacridines (2) | Cytotoxic against cancer cell lines | [11] |
| Demospongiae/ Heteroscleromorpha | <i>Halichondria sp.</i> | Alkaloids | Alkaloids (3) | Cytotoxic against cancer cell lines | [12] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona densaspicula</i> | Alkaloids | Denisanin A-B (2) | Anti-inflammatory | [13] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona sp.</i> | Alkaloids | Cyclostelettamines (10) | Cytotoxic against cancer cell lines | [14] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona tulearensis</i> | Alkaloids | Haliclorensins B-C (2) | Cytotoxic against brine shrimp | [15] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona tulearensis</i> | Alkaloids | Isohalitulins | Cytotoxic against brine shrimp | [15] |
| Demospongiae/ Heteroscleromorpha | <i>Iotrochota baculifera</i> | Alkaloids | Baculiferins A-O (15) | Anti-viral | [16] |
| Demospongiae/ Heteroscleromorpha | <i>Jaspis splendens</i> | Alkaloids | Jasplakinolides (4) | Cytotoxic against cancer cell lines | [17] |
| Demospongiae/ Heteroscleromorpha | <i>Latrunculia sp.</i> | Alkaloids | Alkaloids (2) | Anti-malarial | [18] |

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| Demospongiae/ Heteroscleromorpha | <i>Pachastrissa nux</i> | Alkaloids | Kabiramide L | Anti-malarial | [19] |
| Demospongiae/ Heteroscleromorpha | <i>Penares sp.</i> | Alkaloids | Carbolines (2) | Cytotoxic against cancer cell lines | [20] |
| Demospongiae/ Heteroscleromorpha | <i>Guitarra fimbriata</i> | Alkaloids | Azaindoles (5) | Enzyme inhibition | [21] |
| Demospongiae/ Heteroscleromorpha | <i>Halichondria panicea</i> | Alkaloids | Halichondriamines A and B | Cytotoxic against cancer cell lines | [22] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona sp.</i> | Alkaloids | 1-(1H-indol-3-yloxy) propan-2-ol | Cytotoxic against cancer cell lines | [23] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona sp.</i> | Alkaloids | Haliclocyclamines A–C | Anti-mycobacterial | [24] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona sp.</i> | Alkaloids | Halichondriamine C (2) | Antimicrobial | [25] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona sp.</i> | Alkaloids | Njaoamine I | Cytotoxic against cancer cell lines | [26] |
| Demospongiae/ Heteroscleromorpha | <i>Haplosclerida sp.</i> | Alkaloids | Conicamin (2) | Cytotoxic against cancer cell lines | [27] |
| Demospongiae/ Heteroscleromorpha | <i>Hemimyscale aff arabica</i> | Alkaloids | Cyclic urea derivatives | Antiglycated agents | [28] |
| Demospongiae/ Heteroscleromorpha | <i>Hemimyscale arabica</i> | Alkaloids | Hemimycalins (3) | Antimicrobial | [29] |
| Demospongiae/ Heteroscleromorpha | <i>Iotrochota sp.</i> | Alkaloids | Enisorine A-E | Antimicrobial | [30] |
| Demospongiae/ Heteroscleromorpha | <i>Jaspis splendis</i> | Alkaloids | Jasplakinolides (5) | Cytotoxic against cancer cell lines | [31] |

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| Demospongiae/ Heteroscleromorpha | <i>Latrunculia biformis</i> | Alkaloids | Discorhabdin D-L (3) | Cytotoxic against cancer cell lines | [5] |
| Demospongiae/ Heteroscleromorpha | <i>Lipastrotethya sp.</i> | Alkaloids | Dragmacidins G and H | Cytotoxic against cancer cell lines | [32] |
| Demospongiae/ Heteroscleromorpha | <i>Lissodendoryx florida</i> | Alkaloids | Lissodendoric acids A (1) and B | Antioxidant | [33] |
| Demospongiae/ Heteroscleromorpha | <i>Neopetrosia sp.</i> | Alkaloids | Neopetrosides A and B | Upregulate mitochondrial functions | [34] |
| Demospongiae/ Heteroscleromorpha | <i>Oceanapia sp.</i> | Alkaloids | Adenoside derivative | Cytotoxic against cancer cell lines | [35] |
| Demospongiae/ Heteroscleromorpha | <i>Echinoclathria gibbosa</i> | Lipids | Diverse lipids (3) | Cytotoxic against cancer cell lines | [36] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona fulva</i> | Lipids | Fulvyne A-I (9) | Antimicrobial | [37] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona sp.</i> | Lipids | Brominated acetylenic hydrocarbon | Cytotoxic against cancer cell lines | [38] |
| Demospongiae/ Heteroscleromorpha | <i>Jaspis duoaster</i> | Lipids | Stelletazole D | Cytotoxic against cancer cell lines | [39] |
| Demospongiae/ Heteroscleromorpha | <i>Lipastrotethya sp.</i> | Lipids | Pourosides F-I (12) | Cytotoxic against cancer cell lines | [40] |
| Demospongiae/ Heteroscleromorpha | <i>Lipastrotethya sp.</i> | Lipids | Sarasinoides N-R | Cytotoxic against cancer cell lines | [41] |
| Demospongiae/ Heteroscleromorpha | <i>Niphates digitalis</i> | Lipids | Niphatenones A-B | Cytotoxic against cancer cell lines | [42] |
| Demospongiae/ Heteroscleromorpha | <i>Niphates sp.</i> | Lipids | Nepheliosyne B | Cytotoxic against cancer cell lines | [43] |

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| Demospongiae/ Heteroscleromorpha | <i>Pandaros acanthifolium</i> | Lipids | Pandarosides E-J (| Anti-parasitic | [44] |
| Demospongiae/ Heteroscleromorpha | <i>Pandaros acanthifolium</i> | Lipids | Pandaroside K-M (5) | Anti-parasitic | [45] |
| Demospongiae/ Heteroscleromorpha | <i>Pandaros acanthifolium</i> | Lipids | Acanthifoliosides A-F (6) | Anti-parasitic | [46] |
| Demospongiae/ Heteroscleromorpha | <i>Pandaros acanthifolium</i> | Lipids | Acanthifoliosides G-J | Antioxidant | [47] |
| Demospongiae/ Heteroscleromorpha | <i>Penares sp.</i> | Lipids | Penasins A-E (5) | Cytotoxic against cancer cell lines | [48] |
| Demospongiae/ Heteroscleromorpha | <i>Erylus cf. deficiens</i> | Lipids | Erylusamide A–D | Inhibit indoleamine 2,3- dioxygenase (IDO) | [49] |
| Demospongiae/ Heteroscleromorpha | <i>Iotrochota purpurea</i> | Peptides | Porpuniones A-J (10) | Antimicrobial | [50] |
| Demospongiae/ Heteroscleromorpha | <i>Iotrochota sp.</i> | Peptides | Iotrochamides A-B (2) | Anti-parasitic | [51] |
| Demospongiae/ Heteroscleromorpha | <i>Ecionemia acervus</i> | Peptides | Stelletolide a | Cytotoxic against cancer cell lines | [52] |
| Demospongiae/ Heteroscleromorpha | <i>Geodia barretti</i> | Peptides | Geobarretin A-C | Anti-inflammatory | [53] |
| Demospongiae/ Heteroscleromorpha | <i>Inflatella coelosphaeroides</i> | Peptides | Friomaramide | Antiparasitic | [54] |
| Demospongiae/ Heteroscleromorpha | <i>Geodia sp.</i> | Polyketides | Franklinolides A-C (3) | Cytotoxic against cancer cell lines | [55] |
| Demospongiae/ Heteroscleromorpha | <i>Lithoplocamica lithistoides</i> | Polyketides | Polyketides amines (2) | Cytotoxic against cancer cell lines | [56] |

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| Demospongiae/ Heteroscleromorpha | <i>Echinochalina bargibanti</i> | Polyketides | Arsenicins B and C | Antimicrobial | [57] |
| Demospongiae/ Heteroscleromorpha | <i>Geodia macandrewii</i> | Polyketides | Geodiataurine | Cytotoxic against cancer cell lines | [58] |
| Demospongiae/ Heteroscleromorpha | <i>Halichondria cf. panicea</i> | Polyketides | Isopetrosynol | Inhibits PTP-1B | [59] |
| Demospongiae/ Heteroscleromorpha | <i>Leiodermatium sp.</i> | Polyketides | Leiodermatolides B and C | Cytotoxic against cancer cell lines | [60] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona crassiloba</i> | Steroids | Halicasterols (4) | Antimicrobial | [61] |
| Demospongiae/ Heteroscleromorpha | <i>Lissodendryx fibrosa</i> | Steroids | Manadosterols A-B (2) | Enzyme inhibition | [62] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona simulans</i> | Steroids | Steroids (2) | Anti-parasitic | [63] |
| Demospongiae/ Heteroscleromorpha | <i>Halichondria vansoesti</i> | Steroids | Steroids (4) | Reduce glucose uptake | [64] |
| Demospongiae/ Heteroscleromorpha | <i>Inflatella sp.</i> | Steroids | Oxysterols | Anti-Parkinsons disease | [65] |
| Demospongiae/ Heteroscleromorpha | <i>Halichondria sp.</i> | Terpenoids | Halichonadin G-I (3) | Cytotoxic against cancer cell lines | [66] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona sp.</i> | Terpenoids | Meroterpenoid (1) | Antioxidant | [67] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona sp.</i> | Terpenoids | Haliclonic acid A-B (2) | Enzyme inhibition | [68] |
| Demospongiae/ Heteroscleromorpha | <i>Halichondria okadai</i> | Terpenoids | Halichonines A-C (3) | Cytotoxic against cancer cell lines | [69] |

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| Demospongiae/ Heteroscleromorpha | <i>Hamigera tarangaensis</i> | Terpenoids | Hamigerans (11) | Cytotoxic against cancer cell lines | [70] |
| Demospongiae/ Heteroscleromorpha | <i>Jaspis stellifera</i> | Terpenoids | Jaspiferin A-B | Cytotoxic against cancer cell lines | [71] |
| Demospongiae/ Heteroscleromorpha | <i>Leiodermatium sp.</i> | Terpenoids | Leiodermatolide | Cytotoxic against cancer cell lines | [72] |
| Demospongiae/ Heteroscleromorpha | <i>Pachastrissa nux</i> | Terpenoids | Kabiramides J-K (2) | Anti-malarial | [73] |
| Demospongiae/ Heteroscleromorpha | <i>Erylus gofrilleri</i> | Terpenoids | Erylosides | Cytotoxic against cancer cell lines | [74] |
| Demospongiae/ Heteroscleromorpha | <i>Halichondria sp.</i> | Terpenoids | Halichons | Cytotoxic against cancer cell lines | [75] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona sp.</i> | Terpenoids | Sesquiterpenoids | Anti-inflammatory | [76] |
| Demospongiae/ Heteroscleromorpha | <i>Haliclona sp.</i> | Terpenoids | Halioxepine B-D | Cytotoxic against cancer cell lines | [77] |
| Demospongiae/ Heteroscleromorpha | <i>Hamigera tarangaensis</i> | Terpenoids | Hamigerans (9) | Cytotoxic against cancer cell lines | [78] |
| Demospongiae/ Heteroscleromorpha | <i>Hayttella sp.</i> | Terpenoids | Spongins | Cytotoxic against cancer cell lines | [79] |
| Demospongiae/ Heteroscleromorpha | <i>Hymenhabdia sp.</i> | Terpenoids | Hymenhabdrin A | Antifouling against Balanus amphitrite | [80] |
| Demospongiae/ Keratosa | <i>Smenospongia cerebriformis</i> | Alkaloids | Dictazole A | Enzyme inhibition | [81] |
| Demospongiae/ Keratosa | <i>Smenospongia sp.</i> | Alkaloids | Indole alkaloids (8) | Cytotoxic against cancer cell lines | [82] |

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| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Alkaloids | Guanines (4) | Neuronal signal transmission | [83] |
| Demospongiae/ Keratosa | <i>Smenospongia sp.</i> | Alkaloids | Smenamide F-G (2) | Cytotoxic against cancer cell lines | [84] |
| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Alkaloids | Indoles (2) | Enzyme inhibition | [85] |
| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Lipids | Heterofibrin A1-A3 and B (6) | Detergent | [86] |
| Demospongiae/ Keratosa | <i>Spongiidae sp.</i> | Lipids | Taurospongins B and C | Antifungal | [87] |
| Demospongiae/ Keratosa | <i>Phyllospongia sp.</i> | Lipids | Phyllactone H | Cytotoxic against cancer cell lines | [88] |
| Demospongiae/ Keratosa | <i>Smenospongia aurea</i> | Polyketides | Smenothiazole A and B | Cytotoxic against cancer cell lines | [89] |
| Demospongiae/ Keratosa | <i>Smenospongia cerebriformis</i> | Polyketides | Smenocerone B | Cytotoxic against cancer cell lines | [90] |
| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Polyketides | Sarasinocide M2 | Cytotoxic against cancer cell lines | [91] |
| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Polyketides | Langcoquinone C | Antibacterial | [92] |
| Demospongiae/ Keratosa | <i>Scalarispongia aqabaensis</i> | Steroids | Callysterol | Anti-inflammatory | [93] |
| Demospongiae/ Keratosa | <i>Scalarispongia sp.</i> | Terpenoids | Scalarene derivatives (4) | Cytotoxic against cancer cell lines | [94] |
| Demospongiae/ Keratosa | <i>Psammocinia sp.</i> | Terpenoids | Sesterterpene (5) | Anti-inflammatory | [95] |
| Demospongiae/ Keratosa | <i>Sarcotragus sp.</i> | Terpenoids | Sarcotin P | Cytotoxic against cancer cell lines | [96] |
| Demospongiae/ Keratosa | <i>Sarcotragus spinosulus</i> | Terpenoids | Quinone | Cytotoxic against cancer cell lines | [97] |
| Demospongiae/ Keratosa | <i>Spongia officinalis</i> | Terpenoids | Afficinic acid A-B (2) | Induction of biofilm formation | [98] |

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| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Terpenoids | Meroterpenoids (5) | Enzyme inhibition | [99] |
| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Terpenoids | Diterpene (1) | Inhibit sea urchin development | [100] |
| Demospongiae/ Keratosa | <i>Thorecta reticulata</i> | Terpenoids | Metachromin U-W | Cytotoxic against cancer cell lines | [101] |
| Demospongiae/ Keratosa | <i>Phyllospongia lamellosa</i> | Terpenoids | Sesterterpene (5) | Cytotoxic against cancer cell lines | [102] |
| Demospongiae/ Keratosa | <i>Phyllospongia sp.</i> | Terpenoids | Deacetylphylloketal | Anti-inflammatory | [103] |
| Demospongiae/ Keratosa | <i>Sarcotragus sp.</i> | Terpenoids | Sesterterpene | Cytotoxic against cancer cell lines | [104] |
| Demospongiae/ Keratosa | <i>Scalarispongia sp.</i> | Terpenoids | Scalarane sesterterpenoids (1) | Cytotoxic against cancer cell lines | [105] |
| Demospongiae/ Keratosa | <i>Smenospongia cerebriformis</i> | Terpenoids | Smenohaimiens A–E | Inhibits NO-production | [106] |
| Demospongiae/ Keratosa | <i>Smenospongia sp.</i> | Terpenoids | Sesquiterpenoidss | Cytotoxic against cancer cell lines | [107] |
| Demospongiae/ Keratosa | <i>Spongia ceylonensis</i> | Terpenoids | Ceylonamides A–F | Inhibit RANKL-Induced Osteoclastogenesis | [108] |
| Demospongiae/ Keratosa | <i>Spongia ceylonensis</i> | Terpenoids | Ceylonins A–F | inhibit the formation of multinuclear osteoclasts | [109] |
| Demospongiae/ Keratosa | <i>Spongia officinalis</i> | Terpenoids | Diterpenes (5) | Anti-inflammatory | [110] |
| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Terpenoids | Langcoquinone A-B | Antibacterial | [111] |
| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Terpenoids | Langconols A–C | Antibacterial | [92] |
| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Terpenoids | Sesquiterpene aminoquinones (3) | Antimicrobial | [112] |
| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Terpenoids | Sclaraolides (4) | Cytotoxic against cancer cell lines | [113] |

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| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Terpenoids | Spongiain A-C (3) | Promotes cell proliferation | [114] |
| Demospongiae/ Keratosa | <i>Spongia sp.</i> | Terpenoids | Ceylonamide G | Cytotoxic against cancer cell lines | [115] |
| Demospongiae/ Keratosa | <i>Spongionella sp.</i> | Terpenoids | Cracilines (4) | Protect mitochondria from oxidative stress | [116] |
| Demospongiae/ Verongimorpha | <i>Suberea ianthelliformis</i> | Alkaloids | Ianthelliformisamines A-C | Antimicrobial | [117] |
| Demospongiae/ Verongimorpha | <i>Suberea ianthelliformis</i> | Alkaloids | Araplysillins (2) | Anti-malarial | [118] |
| Demospongiae/ Verongimorpha | <i>Suberea sp.</i> | Alkaloids | Psammaplysins (3) | Cytotoxic against cancer cell lines | [119] |
| Demospongiae/ Verongimorpha | <i>Suberea ianthelliformis</i> | Alkaloids | Brominated tyrosines (4) | Cytotoxic against cancer cell lines | [120] |
| Demospongiae/ Verongimorpha | <i>Suberea sp.</i> | Alkaloids | Bromotyrosines (2) | Cytotoxic against cancer cell lines | [121] |
| Demospongiae/ Verongimorpha | <i>Suberea sp.</i> | Alkaloids | Maedamines C-D (2) | Cytotoxic against cancer cell lines | [122] |
| Demospongiae/ Verongimorpha | <i>Suberea mollis</i> | Peptides | Subereamines A-B (2) | Antioxidant | [123] |
| Demospongiae/ Verongimorpha | <i>Suberea sp.</i> | Terpenoids | Phenols | Enzyme inhibition | [124] |
| Demospongiae/Heteroscleromorpha | <i>Aaptos sp.</i> | Alkaloids | Aaptamine | Antimicrobial | [125] |
| Demospongiae/Heteroscleromorpha | <i>Aaptos aaptos</i> | Alkaloids | Aaptamine derivatives (5) | Antifungal | [126] |

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| Demospongiae/Heteroscleromorpha | <i>Aaptos aaptos</i> | Alkaloids | Aaptamine derivatives (9) | Cytotoxic against cancer cell lines | [127] |
| Demospongiae/Heteroscleromorpha | <i>Phoriospongia sp.</i> | Alkaloids | Adenosine alkaloids | Nematocidal | [128] |
| Demospongiae/Heteroscleromorpha | <i>Agelas sp.</i> | Alkaloids | Agelamides A and B | Antimicrobial | [129] |
| Demospongiae/Heteroscleromorpha | <i>Agelas sp.</i> | Alkaloids | Agelamides C-E | Antimicrobial | [130] |
| Demospongiae/Heteroscleromorpha | <i>Aaptos sp.</i> | Alkaloids | Aaptamines (3) | Cytotoxic against cancer cell lines | [131] |
| Demospongiae/Heteroscleromorpha | <i>Aaptos suberitoides</i> | Alkaloids | Aamptamine derivatives (4) | Cytotoxic against cancer cell lines | [132] |
| Demospongiae/Heteroscleromorpha | <i>Agelas clathrodes</i> | Alkaloids | Bisuracil | Cytotoxic against cancer cell lines | [133] |
| Demospongiae/Heteroscleromorpha | <i>Agelas linnaei</i> | Alkaloids | Alkaloids (11) | Cytotoxic against cancer cell lines | [134] |
| Demospongiae/Heteroscleromorpha | <i>Agelas mauritania</i> | Alkaloids | Bromopyrrole (1) | Antimicrobial | [135] |
| Demospongiae/Heteroscleromorpha | <i>Agelas sp.</i> | Alkaloids | Nagelamides U-Z (5) | Antifungal | [136] |
| Demospongiae/Heteroscleromorpha | <i>Amphimedon sp.</i> | Alkaloids | Pyrinodemins E-F | Cytotoxic against cancer cell lines | [137] |
| Demospongiae/Heteroscleromorpha | <i>Amphimedon sp.</i> | Alkaloids | Alkaloids (2) | Antimicrobial | [138] |
| Demospongiae/Heteroscleromorpha | <i>Amphimedon sp.</i> | Alkaloids | Pyrinodenins G-I (3) | Cytotoxic against cancer cell lines | [139] |

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| Demospongiae/Heteroscleromorpha | <i>Asteropus sp.</i> | Alkaloids | Catechol | Antimicrobial | [140] |
| Demospongiae/Heteroscleromorpha | <i>Biemna sp.</i> | Alkaloids | Amines (2) | Cytotoxic against cancer cell lines | [141] |
| Demospongiae/Heteroscleromorpha | <i>Clathrina clathrus</i> | Alkaloids | Alkaloids | Antimicrobial | [142] |
| Demospongiae/Heteroscleromorpha | <i>Crambe crambe</i> | Alkaloids | Crambescins (11) | Cytotoxic against cancer cell lines | [143] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora pulchra</i> | Alkaloids | Guanidine alkaloids | Cytotoxic against cancer cell lines | [144] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora pulchra</i> | Alkaloids | Monanchomycalins A-B (2) | Cytotoxic against cancer cell lines | [145] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora pulchra</i> | Alkaloids | Pulchranins A-C (3) | Neuronal signal transmission | [146] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora pulchra</i> | Alkaloids | Monanchomycalin C | Cytotoxic against cancer cell lines | [147] |
| Demospongiae/Heteroscleromorpha | <i>Neopetrosia proxima</i> | Alkaloids | Neopetrosiamine A | Antimicrobial | [148] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia sp.</i> | Alkaloids | Amines (2) | Anti-parasitic | [149] |
| Demospongiae/Heteroscleromorpha | <i>Phorbas topsenti</i> | Alkaloids | Aminoimidazolines (3) | Antioxidant | [150] |
| Demospongiae/Heteroscleromorpha | <i>Sceptrella sp.</i> | Alkaloids | Alkaloids (2) | Enzyme inhibition | [151] |
| Demospongiae/Heteroscleromorpha | <i>Stelletta sp.</i> | Alkaloids | Diketipiperazine | Cytotoxic against cancer cell lines | [152] |

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| Demospongiae/Heteroscleromorpha | <i>Stylissa sp.</i> | Alkaloids | Alkaloids (4) | Cytotoxic against cancer cell lines | [153] |
| Demospongiae/Heteroscleromorpha | <i>Suberites sp.</i> | Alkaloids | Nakijinamines C-E (3) | Antimicrobial | [154] |
| Demospongiae/Heteroscleromorpha | <i>Suberites sp.</i> | Alkaloids | Nakijinamines (6) | Antimicrobial | [155] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Alkaloids | Aurantioside J | Cytotoxic against cancer cell lines | [156] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Alkaloids | Solmonoamide A | Anti-inflammatory | [157] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Alkaloids | Norsalsonlinol (1) | Antioxidant | [158] |
| Demospongiae/Heteroscleromorpha | <i>Zyzzya sp.</i> | Alkaloids | Tsitsikammamine C | Anti-malarial | [159] |
| Demospongiae/Heteroscleromorpha | <i>Aaptos aaptos</i> | Alkaloids | Aaptamines (3) | Cytotoxic against cancer cell lines | [160] |
| Demospongiae/Heteroscleromorpha | <i>Aaptos aaptos</i> | Alkaloids | Aaptamine derivatives (2) | Cytotoxic against cancer cell lines | [161] |
| Demospongiae/Heteroscleromorpha | <i>Acanthodendrilla sp.</i> | Alkaloids | Acanthodendrilline | Cytotoxic against cancer cell lines | [162] |
| Demospongiae/Heteroscleromorpha | <i>Acanthostrongylophora ingens</i> | Alkaloids | Chloromethylhalicyclamine B | Protein Kinase CK1δ/ε Inhibitor | [163] |
| Demospongiae/Heteroscleromorpha | <i>Acanthostrongylophora ingens</i> | Alkaloids | Ingenines C and D | Cytotoxic against cancer cell lines | [164] |
| Demospongiae/Heteroscleromorpha | <i>Acanthostrongylophora ingens</i> | Alkaloids | Ingenine E | Cytotoxic against cancer cell lines | [165] |

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| Demospongiae/Heteroscleromorpha | <i>Acanthostrongylophora ingens</i> | Alkaloids | Ingenine F | Cytotoxic against cancer cell lines | [166] |
| Demospongiae/Heteroscleromorpha | <i>Acanthostrongylophora ingens</i> | Alkaloids | Tetradehydrohalicyclamine B | Proteasome inhibitor | [167] |
| Demospongiae/Heteroscleromorpha | <i>Acanthostrongylophora sp.</i> | Alkaloids | Kepulauamine A-E | Weak cytotoxic and antibacterial | [168] |
| Demospongiae/Heteroscleromorpha | <i>Agelas citrina</i> | Alkaloids | Citrinamines A-D (5) | Antimicrobial | [169] |
| Demospongiae/Heteroscleromorpha | <i>Agelas nakamurai</i> | Alkaloids | Nakamurines B | Antifungal | [170] |
| Demospongiae/Heteroscleromorpha | <i>Agelas nakamurai</i> | Alkaloids | Isoagelasine C | Antifungal Antibacterial | [171] |
| Demospongiae/Heteroscleromorpha | <i>Agelas nakamurai</i> | Alkaloids | Isoagelasine B | Antifungal | [171] |
| Demospongiae/Heteroscleromorpha | <i>Agelas nemoechinata</i> | Alkaloids | Nemoechine G | Antibacterial | [172] |
| Demospongiae/Heteroscleromorpha | <i>Agelas nemoechinata</i> | Alkaloids | Nemoechine D | Cytotoxic against cancer cell lines | [173] |
| Demospongiae/Heteroscleromorpha | <i>Agelas nemoechinata</i> | Alkaloids | Dibromopyrrole alkaloids (3) | Cytotoxic against cancer cell lines | [174] |
| Demospongiae/Heteroscleromorpha | <i>Agelas nemoechinata</i> | Alkaloids | Agelanemoechine | Pro-angiogenic | [175] |
| Demospongiae/Heteroscleromorpha | <i>Agelas sp.</i> | Alkaloids | Longamides | Antifungal | [176] |
| Demospongiae/Heteroscleromorpha | <i>Agelas sp.</i> | Alkaloids | Hexazosceptrin | Antimicrobial | [177] |

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| Demospongiae/Heteroscleromorpha | <i>Agleas kosrae</i> | Alkaloids | Sceptrin derivatives (2) | Cytotoxic against cancer cell lines | [178] |
| Demospongiae/Heteroscleromorpha | <i>Amphimedon sp.</i> | Alkaloids | Zamamidine D | Antibacterial Antifungal | [179] |
| Demospongiae/Heteroscleromorpha | <i>Biemna laboutei</i> | Alkaloids | Netamines O-S | Anti-malarial | [180] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia siphonella</i> | Alkaloids | Oxindole alkaloidss (2) | Antimicrobial | [181] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia sp.</i> | Alkaloids | Callyazepin | Cytotoxic against cancer cell lines | [182] |
| Demospongiae/Heteroscleromorpha | <i>Characella sp.</i> | Alkaloids | Poecillastrin H | Cytotoxic against cancer cell lines | [183] |
| Demospongiae/Heteroscleromorpha | <i>Cinachyrella sp.</i> | Alkaloids | Cinachylenic acid B-D | Cytotoxic against cancer cell lines | [184] |
| Demospongiae/Heteroscleromorpha | <i>Clathria bulbotaxa</i> | Alkaloids | Crambescidin-derivatives (3) | Cytotoxic against cancer cell lines | [185] |
| Demospongiae/Heteroscleromorpha | <i>Crambe crambe symbiosis</i> | Alkaloids | Crambescidin-derivatives (2) | Cytotoxic against cancer cell lines | [186] |
| Demospongiae/Heteroscleromorpha | <i>Dictyonella sp.</i> | Alkaloids | Bromopyrroles (3) | Yeast proteasome inhibition | [187] |
| Demospongiae/Heteroscleromorpha | <i>Dragmacidon sp.</i> | Alkaloids | Dragmacidins I and J | Enzyme inhibitors | [188] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora arbuscula</i> | Alkaloids | Pyrimidines (6) | Anti-parasitic | [189] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora pulchra</i> | Alkaloids | Monanchoxymycalin A-B | Cytotoxic against cancer cell lines | [190] |

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| Demospongiae/Heteroscleromorpha | <i>Monanchora pulchra</i> | Alkaloids | Spongins | Cytotoxic against cancer cell lines | [191] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora pulchra</i> | Alkaloids | Monanchoxymycolin C | Cytotoxic against cancer cell lines | [192] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora sp.</i> | Alkaloids | Monachoradin a-c crambecidin | Cytotoxic against cancer cell lines | [193] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora unguiculata</i> | Alkaloids | Ptilomycolin E and F | Antibacterial Anti-protozoal | [194] |
| Demospongiae/Heteroscleromorpha | <i>Mycale hentscheli</i> | Alkaloids | Peloruside E | Cytotoxic against cancer cell lines | [195] |
| Demospongiae/Heteroscleromorpha | <i>Mycale lissochela</i> | Alkaloids | Mycalenitrile 15 | Inhibits PTP-1B | [196] |
| Demospongiae/Heteroscleromorpha | <i>Neopetrosia exigua</i> | Alkaloids | Neopetrocyclamines A and B | Cytotoxic against cancer cell lines | [197] |
| Demospongiae/Heteroscleromorpha | <i>Poecillastra sp.</i> | Alkaloids | Poecillastrin E, F, and G | Cytotoxic against cancer cell lines | [198] |
| Demospongiae/Heteroscleromorpha | <i>Pseudaxinella reticulata</i> | Alkaloids | Crambescin homologues (4) | Antifungal | [199] |
| Demospongiae/Heteroscleromorpha | <i>Spongisorites calcicola</i> | Alkaloids | Bisindole alkaloidss (2) | Cytotoxic against cancer cell lines | [200] |
| Demospongiae/Heteroscleromorpha | <i>Stylissa sp.</i> | Alkaloids | Dispaceamide E (2) | Enzyme inhibition | [201] |
| Demospongiae/Heteroscleromorpha | <i>Tedania brasilliensis</i> | Alkaloids | Pseudoceratidine (5) | Active against Leishmania | [202] |
| Demospongiae/Heteroscleromorpha | <i>Topsentia sp.</i> | Alkaloids | Tulongicin A | Antibacterial | [203] |

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| Demospongiae/Heteroscleromorpha | <i>Topsentia sp.</i> | Alkaloids | Dihydrospongotine C | Antibacterial | [203] |
| Demospongiae/Heteroscleromorpha | <i>Tsitsikamma favus</i> | Alkaloids | Makaluvamine Q | Cytotoxic against cancer cell lines | [204] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia muta</i> | Alkaloids | Araguspongine C | Cytotoxic against cancer cell lines | [205] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Alkaloids | N-methylniphatyne a | Cytotoxic against cancer cell lines | [206] |
| Demospongiae/Heteroscleromorpha | <i>Agelas sp.</i> | Alkaloids | Bromopyrroles (5) | Antimicrobial | [207] |
| Demospongiae/Heteroscleromorpha | <i>Dragmacidon coccinea</i> | Alkaloids | Dragmacidoside | Anti-inflammatory | [208] |
| Demospongiae/Heteroscleromorpha | <i>Acanthella cavernosa</i> | Alkaloids | Guanidine alkaloids | Tumor suppressor | [209] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia sp.</i> | Alkaloids | Macrolide | Cytotoxic against cancer cell lines | [210] |
| Demospongiae/Heteroscleromorpha | <i>Acanthostrongylophora ingens</i> | Alkaloids | Manzamines (2) | Proteasome inhibition | [211] |
| Demospongiae/Heteroscleromorpha | <i>Biemna laboutei</i> | Alkaloids | Neatamines H-N | Anti-malarial | [212] |
| Demospongiae/Heteroscleromorpha | <i>Ancorina Geodides</i> | Alkaloids | Pyridoacridines (2) | Cytotoxic against cancer cell lines | [213] |
| Demospongiae/Heteroscleromorpha | <i>Topsentia sp.</i> | Alkaloids | Topsendines A-F | Voltage gated ion-channels | [214] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora pulchra</i> | Alkaloids | Urupocidin A | Anti-inflammatory | [215] |

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| Demospongiae/Heteroscleromorpha | <i>Xestospongia testudinaria</i> | Lipids | Brominated pufas (8) | Enzyme inhibition | [216] |
| Demospongiae/Heteroscleromorpha | <i>Siphonochalina siphonella</i> | Lipids | Callyspongenols (2) | Cytotoxic against cancer cell lines | [217] |
| Demospongiae/Heteroscleromorpha | <i>Cinachyrella sp.</i> | Lipids | Cinanthrenol A | Cytotoxic against cancer cell lines | [218] |
| Demospongiae/Heteroscleromorpha | <i>Axinyssa djiferi</i> | Lipids | Axidjiferoside A-C (3) | Anti-malarial | [219] |
| Demospongiae/Heteroscleromorpha | <i>Crella spinulata</i> | Lipids | Shishicrellastatin A-B (2) | Enzyme inhibition | [220] |
| Demospongiae/Heteroscleromorpha | <i>Dasychalina sp.</i> | Lipids | Desulfhaplosamate | Receptor activator | [221] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora sp.</i> | Lipids | Phorboketals A-K | Cytotoxic against cancer cell lines | [222] |
| Demospongiae/Heteroscleromorpha | <i>Mycale acerata</i> | Lipids | Fatty acid | Cytotoxic against cancer cell lines | [223] |
| Demospongiae/Heteroscleromorpha | <i>Myrmekioderma dendyi</i> | Lipids | Myrmecoside E | Cytotoxic against cancer cell lines | [224] |
| Demospongiae/Heteroscleromorpha | <i>Perosia solida sp.</i> | Lipids | Petroacetylene | Cytotoxic against cancer cell lines | [225] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia sp.</i> | Lipids | Polyacetylenes (6) | Cytotoxic against cancer cell lines | [226] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia sp.</i> | Lipids | Miyakosyne A-F (6) | Cytotoxic against cancer cell lines | [227] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia sp.</i> | Lipids | Petrosiacetylene E | Cytotoxic against cancer cell lines | [228] |

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| Demospongiae/Heteroscleromorpha | <i>Petrosia sp.</i> | Lipids | Petrosynoic acid A-D (4) | Cytotoxic against cancer cell lines | [229] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia strongylata</i> | Lipids | Petrosiol A-E (5) | Neuronal differentiation | [230] |
| Demospongiae/Heteroscleromorpha | <i>Placospongia sp.</i> | Lipids | Phosphate conatining alkynes (2) | Receptor activator | [231] |
| Demospongiae/Heteroscleromorpha | <i>Rhabdastrella globostellata</i> | Lipids | Globostellins K-L (2) | Enzyme inhibition | [232] |
| Demospongiae/Heteroscleromorpha | <i>Spirastrella abata</i> | Lipids | Sphingolipids (3) | Cytotoxic against cancer cell lines | [233] |
| Demospongiae/Heteroscleromorpha | <i>Spirastrella mollis</i> | Lipids | Mollenyne | Cytotoxic against cancer cell lines | [234] |
| Demospongiae/Heteroscleromorpha | <i>Suberites japonicus</i> | Lipids | Iodinated acetylenic acids (4) | Anti-inflammatory | [235] |
| Demospongiae/Heteroscleromorpha | <i>Terpios sp.</i> | Lipids | Terposides | Anti-inflammatory | [236] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Lipids | Bromotheonyic acid | Cytotoxic against cancer cell lines | [237] |
| Demospongiae/Heteroscleromorpha | <i>Topsentia sp.</i> | Lipids | Topsentinols (3) | Enzyme inhibition | [238] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Lipids | Glycolipids | Antimicrobial | [239] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia testudinaria</i> | Lipids | Mutafuran H | Enzyme inhibition | [240] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia testudinaria</i> | Lipids | Brominatet fatty acids (5) | Adipogenesis | [241] |

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| Demospongiae/Heteroscleromorpha | <i>Placospongia sp.</i> | Lipids | Placotylene A-B | Receptor activator | [242] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia sp.</i> | Lipids | Polyacetylenes (2) | Cytotoxic against cancer cell lines | [243] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia sp.</i> | Lipids | Polyacetylenes (5) | Cytotoxic against cancer cell lines | [244] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia sp.</i> | Lipids | Sphingolipids (3) | Cytotoxic against cancer cell lines | [245] |
| Demospongiae/Heteroscleromorpha | <i>Asteropus niger</i> | Lipids | (2R,5Z,9Z)-2-methoxy-25-methyl-5,9-hexacosadienoic acid | Inhibitor of Topoisomerases IB | [246] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia cf. californica</i> | Lipids | Callyspongidic acids | Cytotoxic against cancer cell lines | [247] |
| Demospongiae/Heteroscleromorpha | <i>Desmapsamma anchorata</i> | Lipids | Ceramides (14) | Cytotoxic against cancer cell lines | [248] |
| Demospongiae/Heteroscleromorpha | <i>Dictyonella sp.</i> | Lipids | Dictyoneolone | Cytotoxic against cancer cell lines | [249] |
| Demospongiae/Heteroscleromorpha | <i>Discodermia kiiensis</i> | Lipids | Sulfolipodiscamides A–C | Cytotoxic against cancer cell lines | [250] |
| Demospongiae/Heteroscleromorpha | <i>Melonanchora kobjakovae</i> | Lipids | Melonoside A | Induce autophagy | [251] |
| Demospongiae/Heteroscleromorpha | <i>Melonanchora kobjakovae</i> | Lipids | Fatty acid amides | Transcription inhibitor | [252] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora clathrata</i> | Lipids | Ceramides | Cytotoxic against cancer cell lines | [253] |
| Demospongiae/Heteroscleromorpha | <i>Mycale sp.</i> | Lipids | Albanitriles A-G (7) | Antiprotozoal | [254] |

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| Demospongiae/Heteroscleromorpha | <i>Myxilla incrustans</i> | Lipids | Myxillin A and C | Anti-inflammatory | [255] |
| Demospongiae/Heteroscleromorpha | <i>Negombata sp.</i> | Lipids | Ceramides (5) | Antoconvulsant | [256] |
| Demospongiae/Heteroscleromorpha | <i>Pleroma sp.</i> | Lipids | Yakushynols (6) | Cytotoxic against cancer cell lines | [257] |
| Demospongiae/Heteroscleromorpha | <i>Pocillastra compressa</i> | Lipids | Pocillastrosides D and E | Antifungal | [258] |
| Demospongiae/Heteroscleromorpha | <i>Sphaciospongia vagabunda</i> | Lipids | Ceramides (3) | Cytotoxic against cancer cell lines | [259] |
| Demospongiae/Heteroscleromorpha | <i>Spirastrella purpurea</i> | Lipids | Lysophospholipids (4) | Antifungal | [260] |
| Demospongiae/Heteroscleromorpha | <i>Stelletta sp.</i> | Lipids | Glycosylated fatty acids (6) | Cytotoxic against cancer cell lines | [261] |
| Demospongiae/Heteroscleromorpha | <i>Theonella mirabilis</i> | Lipids | Mirabolides A and B | Cytotoxic against cancer cell lines | [262] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Lipids | Yakushinamides A and B | HDAC inhibitor | [263] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Lipids | Polyacetylene derivatives (2) | Antifungal | [264] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia testudinaria</i> | Lipids | Brominated Lipids | Enzyme inhibition | [265] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia testudinaria</i> | Lipids | Xestonariene J | Cytotoxic against cancer cell lines | [266] |
| Demospongiae/Heteroscleromorpha | <i>Suberites waedoensis</i> | Peptides | Cyclic peptides (2) | Cytotoxic against cancer cell lines | [267] |

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| Demospongiae/Heteroscleromorpha | <i>Discodermia kiiensis</i> | Peptides | Lipodesipeptides (3) | Cytotoxic against cancer cell lines | [268] |
| Demospongiae/Heteroscleromorpha | <i>Ancorina sp.</i> | Peptides | Peptides | Anti-malarial | [269] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia aerizusa</i> | Peptides | Callyaerins A-F (6) | Antifungal | [270] |
| Demospongiae/Heteroscleromorpha | <i>Ceratopsion sp.</i> | Peptides | Yakuamide A-B (2) | Cytotoxic against cancer cell lines | [271] |
| Demospongiae/Heteroscleromorpha | <i>Clathria araiosa</i> | Peptides | Araisoamine A-D | Cytotoxic against cancer cell lines | [272] |
| Demospongiae/Heteroscleromorpha | <i>Clathria gombawuiensis</i> | Peptides | Gombamide A | Cytotoxic against cancer cell lines | [273] |
| Demospongiae/Heteroscleromorpha | <i>Discodermia calyx</i> | Peptides | Calyxamides A-B (2) | Cytotoxic against cancer cell lines | [274] |
| Demospongiae/Heteroscleromorpha | <i>Meloplus</i> | Peptides | Papuamides E-F (2) | Cytotoxic against brine shrimp | [275] |
| Demospongiae/Heteroscleromorpha | <i>Neamphius huxleyi</i> | Peptides | Neamphamines (3) | Cytotoxic against cancer cell lines | [276] |
| Demospongiae/Heteroscleromorpha | <i>Neamphius sp.</i> | Peptides | Nemphamide B | Antimicrobial | [277] |
| Demospongiae/Heteroscleromorpha | <i>Phakellia fusca</i> | Peptides | Phakellistatins 15-18 (4) | Cytotoxic against cancer cell lines | [278] |
| Demospongiae/Heteroscleromorpha | <i>Pipestela candelabra</i> | Peptides | Pipestelides A-C | Cytotoxic against cancer cell lines | [279] |
| Demospongiae/Heteroscleromorpha | <i>Siliquariaspongia mirabilis</i> | Peptides | Namalide A | Enzyme inhibition | [280] |

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| Demospongiae/Heteroscleromorpha | <i>Stelletta clavosa</i> | Peptides | Mirabamides E-H | Anti-viral | [281] |
| Demospongiae/Heteroscleromorpha | <i>Stylissa massa</i> | Peptides | Styllisin A | Anti-inflammatory | [282] |
| Demospongiae/Heteroscleromorpha | <i>Stylissa sp.</i> | Peptides | Styllissamide X | Cytotoxic against cancer cell lines | [283] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Peptides | Koshikamides F-H (3) | Anti-viral | [284] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Peptides | Perthamides G-K (5) | Anti-inflammatory | [285] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Peptides | Peptides (2) | Cytotoxic against cancer cell lines | [286] |
| Demospongiae/Heteroscleromorpha | <i>Pipestela candelabra</i> | Peptides | Peptides (4) | Cytotoxic against cancer cell lines | [287] |
| Demospongiae/Heteroscleromorpha | <i>Reniochalina</i> | Peptides | Reniochalistatins A-E | Cytotoxic against cancer cell lines | [288] |
| Demospongiae/Heteroscleromorpha | <i>Stylissa caribica</i> | Peptides | Styllissamides G and H | Cytotoxic against cancer cell lines | [289] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Peptides | Theonellamide G | Antifungal | [290] |
| Demospongiae/Heteroscleromorpha | <i>Asteropus sp.</i> | Peptides | Callipeltins N and O | Cytotoxic against cancer cell lines | [291] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia</i> | Peptides | Callyptide A | Cytotoxic against cancer cell lines | [292] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia aerizusa</i> | Peptides | Callyaerin I-M | Cytotoxic against cancer cell lines | [293] |

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| Demospongiae/Heteroscleromorpha | <i>Callyspongia sp.</i> | Peptides | Callyspongiamides A and B | Enzyme inhibitors | [294] |
| Demospongiae/Heteroscleromorpha | <i>Characella pachastrelloides</i> | Peptides | Characellides A-D (4) | Anti-inflammatory | [295] |
| Demospongiae/Heteroscleromorpha | <i>Clathria basilana</i> | Peptides | Microcionamides C and D | Cytotoxic against cancer cell lines | [296] |
| Demospongiae/Heteroscleromorpha | <i>Cribrochalina sp.</i> | Peptides | Pembamide | Cytotoxic against cancer cell lines | [297] |
| Demospongiae/Heteroscleromorpha | <i>Daedalopelta sp.</i> | Peptides | Daedophamide | Cytotoxic against cancer cell lines | [298] |
| Demospongiae/Heteroscleromorpha | <i>Discodermia</i> | Peptides | Stellatolide H | Cytotoxic against cancer cell lines | [299] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia sp.</i> | Peptides | Halicylindramide F | Farnesoid X Receptor Antagonist | [300] |
| Demospongiae/Heteroscleromorpha | <i>Phakellia fusca</i> | Peptides | Fuscasins A-D | Cytotoxic against cancer cell lines | [301] |
| Demospongiae/Heteroscleromorpha | <i>Stelletta sp.</i> | Peptides | Stellettapeptins A and B | HIV-inhibition | [302] |
| Demospongiae/Heteroscleromorpha | <i>Stylissa carteri</i> | Peptides | Carteritin A | Cytotoxic against cancer cell lines | [303] |
| Demospongiae/Heteroscleromorpha | <i>Stylissa flabelliformis</i> | Peptides | Cyclopeptidess (3) | Cytotoxic against cancer cell lines | [304] |
| Demospongiae/Heteroscleromorpha | <i>Stylissa massa</i> | Peptides | Stylissatins B–D | Cytotoxic against cancer cell lines | [305] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Peptides | Nazumazoles A-C | Cytotoxic against cancer cell lines | [306] |

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| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Peptides | Nazumazoles D–F | Inhibits chemotrypsin | [307] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Peptides | Cyclotheonellazoles A–C | Protease inhibitors | [308] |
| Demospongiae/Heteroscleromorpha | <i>Cinachyrella enigmata</i> | Polyketides | Enigmazoles (3) | Cytotoxic against cancer cell lines | [309] |
| Demospongiae/Heteroscleromorpha | <i>Mycale hentscheli</i> | Polyketides | Peloruside B | Cytotoxic against cancer cell lines | [310] |
| Demospongiae/Heteroscleromorpha | <i>Agelas nemoechinata</i> | Polyketides | Nemoechioxide A | Cytotoxic against cancer cell lines | [173] |
| Demospongiae/Heteroscleromorpha | <i>Agelas sp.</i> | Polyketides | Nemoechine D | Cytotoxic against cancer cell lines | [173] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia sp.</i> | Polyketides | Polyacetylenic alcohol | Cytotoxic against cancer cell lines | [311] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia alfiani</i> | Polyketides | Petroquinones | Cytotoxic against cancer cell lines | [312] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia sp.</i> | Polyketides | Phormidolides B and C | Cytotoxic against cancer cell lines | [313] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia sp. and Halicondria</i> | Polyketides | Polyacetylenic alcohols (6) | Cytotoxic against cancer cell lines | [314] |
| Demospongiae/Heteroscleromorpha | <i>Theonella sp.</i> | Polyketides | Lanesoic acid | Cytotoxic against cancer cell lines | [315] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Polyketides | Renieramycin O | Cytotoxic against cancer cell lines | [316] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia fibrosa</i> | Steroids | Sterols (4) | Anti-parasitic | [317] |

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| Demospongiae/Heteroscleromorpha | <i>Phorbas gukhulensis</i> | Steroids | Aminosterols (2) | Cytotoxic against cancer cell lines | [318] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Steroids | Solomonsterols A-B (2) | Receptor activator | [319] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Steroids | Theonellasterols B-H (7) | Receptor activator | [320] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Steroids | Malaitasterol A | Receptor activator | [321] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Steroids | Conicasterol E | Receptor activator | [322] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Steroids | Conicasterol F | Receptor activator | [323] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Steroids | Conicasterol G-K | Receptor activator | [324] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Steroids | Theonellasterol K | Cytotoxic against cancer cell lines | [325] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia testudinaria</i> | Steroids | Sterols (3) | Antifouling | [326] |
| Demospongiae/Heteroscleromorpha | <i>Theonella sp.</i> | Steroids | Steroids (4) | Receptor activator | [327] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Steroids | Swinhoeisterols A and B | Cytotoxic against cancer cell lines | [328] |
| Demospongiae/Heteroscleromorpha | <i>Biemna ehrenbergi</i> | Steroids | Ehrenasterol and biemnic acid | Antimicrobial | [329] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia impexa</i> | Steroids | Gelliusterol E and callimplexen A | Antimicrobial | [330] |

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| Demospongiae/Heteroscleromorpha | <i>Clathria gombawuiensis</i> | Steroids | Gombasterols A–F | Antidiabetic | [331] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora sp.</i> | Steroids | Sterols (3) | Cytotoxic against cancer cell lines | [332] |
| Demospongiae/Heteroscleromorpha | <i>Monanchora sp.</i> | Steroids | Monanchosterols A and B | Anti-inflammatory | [333] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia sp.</i> | Steroids | Sterols | Cytotoxic against cancer cell lines | [334] |
| Demospongiae/Heteroscleromorpha | <i>Polymastia boletiformis</i> | Steroids | Steroids (2) | Antifungal | [335] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Steroids | Sterols (3) | Cytotoxic against cancer cell lines | [336] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Steroids | Swinhoeisterols C–F | Enzyme inhibitors | [337] |
| Demospongiae/Heteroscleromorpha | <i>Topsentia sp.</i> | Steroids | Topsensterols | Antimicrobial | [338] |
| Demospongiae/Heteroscleromorpha | <i>Topsentia sp.</i> | Steroids | Topsensterol (2) | Cytotoxic against cancer cell lines | [339] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Steroids | Aragusterol J | Cytotoxic against cancer cell lines | [340] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia testudinaria</i> | Steroids | Steroid | Enzyme inhibitors | [341] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia testudinaria</i> | Steroids | Xestosterol | Cytotoxic against cancer cell lines | [342] |
| Demospongiae/Heteroscleromorpha | <i>Asteropus sp.</i> | Steroids | Asteropsin A | Neuronal signal transmission | [343] |

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| Demospongiae/Heteroscleromorpha | <i>Axinyssa sp.</i> | Terpenoids | Axinyssins A-L (12) | Antimicrobial | [344] |
| Demospongiae/Heteroscleromorpha | <i>Callyspongia sp.</i> | Terpenoids | Bromotyrosine derivatives (3) | Cardiovascular disease | [345] |
| Demospongiae/Heteroscleromorpha | <i>Diacarnus megaspinorhabosa</i> | Terpenoids | Dicarnaperoxides (5) | Anti-malarial | [346] |
| Demospongiae/Heteroscleromorpha | <i>Clathria gombawuiensis</i> | Terpenoids | Gombaspiroketal A-C | Antimicrobial | [347] |
| Demospongiae/Heteroscleromorpha | <i>Siphonochalina siphonella</i> | Terpenoids | Neviotine C | Cytotoxic against cancer cell lines | [348] |
| Demospongiae/Heteroscleromorpha | <i>Phorbas sp.</i> | Terpenoids | Phorbaketals L-N (3) | Cytotoxic against cancer cell lines | [349] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Terpenoids | Quinone | Proteasome inhibition | [350] |
| Demospongiae/Heteroscleromorpha | <i>Aka coralliphagum</i> | Terpenoids | Sesquiterpene hydroquinones (4) | Cytotoxic against cancer cell lines | [351] |
| Demospongiae/Heteroscleromorpha | <i>Topsentia sp.</i> | Terpenoids | Terpenes (4) | Antifungal | [352] |
| Demospongiae/Heteroscleromorpha | <i>Axinyssa sp.</i> | Terpenoids | Terpenes (5) | Cytotoxic against cancer cell lines | [353] |
| Demospongiae/Heteroscleromorpha | <i>Acanthella cavernosa</i> | Terpenoids | Terpenoids (7) | Cytotoxic against cancer cell lines | [354] |
| Demospongiae/Heteroscleromorpha | <i>Acanthella cavernosa</i> | Terpenoids | Kalihinols M-T (8) | Antifouling | [355] |
| Demospongiae/Heteroscleromorpha | <i>Agelas axifera</i> | Terpenoids | Axistatin 1-3 (3) | Antimicrobial | [356] |

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| Demospongiae/Heteroscleromorpha | <i>Agelas citrina</i> | Terpenoids | Agelasidines E-F (2) | Antifungal | [357] |
| Demospongiae/Heteroscleromorpha | <i>Agelas sp.</i> | Terpenoids | Agelasines O-U | Cytotoxic against cancer cell lines | [358] |
| Demospongiae/Heteroscleromorpha | <i>Aka coralliphagum</i> | Terpenoids | Sulfated compounds (2) | Antioxidant | [359] |
| Demospongiae/Heteroscleromorpha | <i>Auletta sp.</i> | Terpenoids | Jasplakinolides (2) | Cytotoxic against cancer cell lines | [360] |
| Demospongiae/Heteroscleromorpha | <i>Diacarnus erythraeanus</i> | Terpenoids | Cyclic peroxides (2) | Cytotoxic against cancer cell lines | [361] |
| Demospongiae/Heteroscleromorpha | <i>Diacarnus megaspinorhabosa</i> | Terpenoids | Dicarperoxide S | Cytotoxic against cancer cell lines | [362] |
| Demospongiae/Heteroscleromorpha | <i>Melophlus</i> | Terpenoids | Aurabtoside | Anti-parasitic | [363] |
| Demospongiae/Heteroscleromorpha | <i>Mycale hentscheli</i> | Terpenoids | Mycalamide E | Enzyme inhibition | [364] |
| Demospongiae/Heteroscleromorpha | <i>Myrmekioderma sp.</i> | Terpenoids | Oxobolenes (2) | Cytotoxic against cancer cell lines | [365] |
| Demospongiae/Heteroscleromorpha | <i>Negombata cortica</i> | Terpenoids | Terpenoids (7) | Cytotoxic against cancer cell lines | [366] |
| Demospongiae/Heteroscleromorpha | <i>Neoptrosia proxima</i> | Terpenoids | Neoptrosiquinone A-B (2) | Cytotoxic against cancer cell lines | [367] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia alfiani</i> | Terpenoids | Quinones (3) | Enzyme inhibition | [368] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia nigricans</i> | Terpenoids | Petronigrione | Cytotoxic against cancer cell lines | [369] |

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| Demospongiae/Heteroscleromorpha | <i>Phorbas gukhulensis</i> | Terpenoids | Gukulenin C-F (4) | Cytotoxic against cancer cell lines | [370] |
| Demospongiae/Heteroscleromorpha | <i>Phorbas sp.</i> | Terpenoids | Phorbasones A-B (2) | Neuronal signal transmission | [371] |
| Demospongiae/Heteroscleromorpha | <i>Phorbas sp.</i> | Terpenoids | Sesterterpenoids (2) | Cytotoxic against cancer cell lines | [372] |
| Demospongiae/Heteroscleromorpha | <i>Phorbas sp.</i> | Terpenoids | Sesterterpene (5) | Enzyme inhibition | [373] |
| Demospongiae/Heteroscleromorpha | <i>Pseudoaxinella flava</i> | Terpenoids | Isonitrile | Cytotoxic against cancer cell lines | [374] |
| Demospongiae/Heteroscleromorpha | <i>Rhabdastrella globostellata</i> | Terpenoids | Globostelletin A-I (9) | Cytotoxic against cancer cell lines | [375] |
| Demospongiae/Heteroscleromorpha | <i>Rhabdastrella globostellata</i> | Terpenoids | Rhabdastin A-G (7) | Cytotoxic against cancer cell lines | [376] |
| Demospongiae/Heteroscleromorpha | <i>Rhabdastrella globostellata</i> | Terpenoids | Stelliferins (2) | Antimicrobial | [377] |
| Demospongiae/Heteroscleromorpha | <i>Stylissa massa</i> | Terpenoids | Diterpenes (3) | Anti-malarial | [378] |
| Demospongiae/Heteroscleromorpha | <i>Svenzea flava</i> | Terpenoids | Diterpenoids (2) | Antimicrobial | [379] |
| Demospongiae/Heteroscleromorpha | <i>Tedania ignis</i> | Terpenoids | Tedarenes A-B (2) | Anti-inflammatory | [380] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Terpenoids | Swinholide J | Cytotoxic against cancer cell lines | [381] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Terpenoids | Terpenoids (2) | Cytotoxic against cancer cell lines | [382] |

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| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Terpenoids | Xestosaprols (2) | Enzyme inhibition | [383] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Terpenoids | Xestasporols (2) | Antimicrobial | [384] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Terpenoids | Xestosparols (8) | Enzyme inhibition | [385] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Terpenoids | S-oxide (1) | Cytotoxic against cancer cell lines | [386] |
| Demospongiae/Heteroscleromorpha | <i>Agleas nakamurai</i> | Terpenoids | Agelasines (3) | Antimicrobial | [387] |
| Demospongiae/Heteroscleromorpha | <i>Arenosclera sp.</i> | Terpenoids | Brominated ether | Antimicrobial | [388] |
| Demospongiae/Heteroscleromorpha | <i>Clathria gombawuiensis</i> | Terpenoids | Sesterterpene (3) | Cytotoxic against cancer cell lines | [389] |
| Demospongiae/Heteroscleromorpha | <i>Diacarnus megaspinorhabdosa</i> | Terpenoids | Farnesyl derivatives (2) | Cytotoxic against cancer cell lines | [390] |
| Demospongiae/Heteroscleromorpha | <i>Diacarnus megaspinorhabdosa</i> | Terpenoids | Dicarnuperoxides | Anti-malarial | [391] |
| Demospongiae/Heteroscleromorpha | <i>Myrmekioderma sp.</i> | Terpenoids | Bisabolane derivatives (4) | Lipids-reducing activity | [392] |
| Demospongiae/Heteroscleromorpha | <i>Petrosia corticata</i> | Terpenoids | Stronglyphorine (2) | Antimicrobial | [393] |
| Demospongiae/Heteroscleromorpha | <i>Phorbas areolatus</i> | Terpenoids | Suberitane derivatives (3) | Cytotoxic against cancer cell lines | [394] |
| Demospongiae/Heteroscleromorpha | <i>Phorbas sp.</i> | Terpenoids | Alotaketals and ansellones | Antiviral | [395] |

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| Demospongiae/Heteroscleromorpha | <i>Raspailia bouryeseana</i> | Terpenoids | Clerodane diterpenes (5) | Cytotoxic against cancer cell lines | [396] |
| Demospongiae/Heteroscleromorpha | <i>Rhabdastrella providentiae</i> | Terpenoids | Rhabdaprovidines A-C | Anti-inflammatory | [397] |
| Demospongiae/Heteroscleromorpha | <i>Rhabdastrella providentiae</i> | Terpenoids | Isomalabaricane analogues (1–5) | Cytotoxic against cancer cell lines | [398] |
| Demospongiae/Heteroscleromorpha | <i>Siphonochalina siphonella</i> | Terpenoids | Sipholenone | Enzyme inhibitors | [399] |
| Demospongiae/Heteroscleromorpha | <i>Stelletta sp.</i> | Terpenoids | Cyclobutastelettolide A-B | Pro-inflammatory | [400] |
| Demospongiae/Heteroscleromorpha | <i>Stelletta tenuis</i> | Terpenoids | Stelletins (3) | Cytotoxic against cancer cell lines | [401] |
| Demospongiae/Heteroscleromorpha | <i>Strongylophora strongylata</i> | Terpenoids | Stronglyphorine | Enzyme inhibition | [402] |
| Demospongiae/Heteroscleromorpha | <i>Svenzea flava</i> | Terpenoids | Monamphilectines B-C | Anti-malarial | [403] |
| Demospongiae/Heteroscleromorpha | <i>Theonella swinhoei</i> | Terpenoids | P10 (a new blasticidin S analog) | Antibacterial | [404] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Terpenoids | Xestoadociaminals A–D (7) | Enzyme inhibition | [405] |
| Demospongiae/Heteroscleromorpha | <i>Xestospongia sp.</i> | Terpenoids | Fennebrecin C-D | Cytotoxic against cancer cell lines | [406] |
| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Alkaloids | Dysideanins A-B (2) | Antimicrobial | [407] |
| Demospongiae/Keratosa | <i>Fascaplysimopsis sp.</i> | Alkaloids | Salarins D-J (7) | Cytotoxic against cancer cell lines | [408] |
| Demospongiae/Keratosa | <i>Hyattella sp.</i> | Alkaloids | Psammamplysin G | Anti-malarial | [409] |

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| Demospongiae/Keratosa | <i>Hyrtios reticulatus</i> | Alkaloids | Hyrtiocarboline | Cytotoxic against cancer cell lines | [410] |
| Demospongiae/Keratosa | <i>Hyrtios reticulatus</i> | Alkaloids | Hyrtiorectulins A-E | Enzyme inhibition | [411] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Alkaloids | Brominated indole | Antioxidant | [412] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Alkaloids | Hyrtioerectines D-F (3) | Antimicrobial | [413] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Alkaloids | Hyrtimomines A-C (3) | Cytotoxic against cancer cell lines | [414] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Alkaloids | Hyrtimomines D-F (3) | Antifungal | [415] |
| Demospongiae/Keratosa | <i>Cacospongia mycofijiensis</i> | Alkaloids | Zampanolides B-E | Cytotoxic against cancer cell lines | [416] |
| Demospongiae/Keratosa | <i>Fascaplysinopsis reticulata</i> | Alkaloids | Spiroreticulatine (2) | Anti-inflammatory | [417] |
| Demospongiae/Keratosa | <i>Fascaplysinopsis reticulata</i> | Alkaloids | Subereamolline D | Cytotoxic against cancer cell lines | [418] |
| Demospongiae/Keratosa | <i>Fascaplysinopsis reticulata</i> | Alkaloids | Tryptophan alkaloids (3) | Anti-malarial | [419] |
| Demospongiae/Keratosa | <i>Hexadella sp.</i> | Alkaloids | Anomians | Cytotoxic against cancer cell lines | [420] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Alkaloids | Hyrtinadines C and D | Antimicrobial | [421] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Alkaloids | Dihydrohyrtiosulawesine | Enzyme inhibitors | [422] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Alkaloids | Ishigadine A | Cytotoxic against cancer cell lines | [423] |
| Demospongiae/Keratosa | <i>Hyrtios erecta</i> | Alkaloids | Hainanerectamines A-C | Enzyme inhibition | [424] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Alkaloids | Hyrtimomines (6) | Antimicrobial | [425] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Alkaloids | Tryptophan alkaloids | Cytotoxic against cancer cell lines | [426] |
| Demospongiae/Keratosa | <i>Luffariella variabilis</i> | Alkaloids | Variabines A-B | Proteasome inhibition | [427] |

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| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Lipids | Halogenated lipids (2) | Cytotoxic against cancer cell lines | [428] |
| Demospongiae/Keratosa | <i>Carteriospongia sp.</i> | Lipids | Scalaranes (5) | Cytotoxic against cancer cell lines | [429] |
| Demospongiae/Keratosa | <i>Hippospongia sp.</i> | Lipids | Hippospongide C | Cytotoxic against cancer cell lines | [430] |
| Demospongiae/Keratosa | <i>Coscinoderma sp.</i> | Lipids | Suavine analogs (5) | Cytotoxic against cancer cell lines | [431] |
| Demospongiae/Keratosa | <i>Carteriospongia sp.</i> | Lipids | Scalaraenes | Cytotoxic against cancer cell lines | [432] |
| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Lipids | Dysiroid A and B | Antibacterial | [433] |
| Demospongiae/Keratosa | <i>Hyrtios erectus</i> | Lipids | Hyrtiolides | Cytotoxic against cancer cell lines | [434] |
| Demospongiae/Keratosa | <i>Hyrtios erectus</i> | Lipids | Petrosaspongia C | Cytotoxic against cancer cell lines | [435] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Peptides | Hyrtiosergamines A-B | Antimicrobial | [436] |
| Demospongiae/Keratosa | <i>Dysidea herbacea</i> | Peptides | Dysiherbaine | Neurotoxicity | [437] |
| Demospongiae/Keratosa | <i>Hippospongia lachne</i> | Polyketides | Hippolachnin | Antifungal | [438] |
| Demospongiae/Keratosa | <i>Hyrtios erectus</i> | Polyketides | Erectuseneols A-F | Cytotoxic against cancer cell lines | [439] |
| Demospongiae/Keratosa | <i>Hyrtios erectus</i> | Polyketides | Alkyl benzoat | Cytotoxic against cancer cell lines | [440] |
| Demospongiae/Keratosa | <i>Petrosaspongia sp.</i> | Polyketides | Biakamides A-D | Antiproliferative against human cancer cells | [441] |
| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Steroids | Dysideasterols F-H (3) | Cytotoxic against cancer cell lines | [442] |

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| Demospongiae/Keratosa | <i>Ircinia sp.</i> | Steroids | Steroid | Antimicrobial | [443] |
| Demospongiae/Keratosa | <i>Dactylospongia elegans</i> | Steroids | Steroids (2) | Cytotoxic against cancer cell lines | [444] |
| Demospongiae/Keratosa | <i>Ircinia echinata</i> | Steroids | Epoxysterols (6) | Cytotoxic against cancer cell lines | [445] |
| Demospongiae/Keratosa | <i>Ircinia sp.</i> | Steroids | Sterol | Antimicrobial | [446] |
| Demospongiae/Keratosa | <i>Dendrilla nigra</i> | Terpenoids | Denigrins A-C | Antimicrobial | [447] |
| Demospongiae/Keratosa | <i>Dysidea fragilis</i> | Terpenoids | Dysidaminones A-M (13) | Anti-inflammatory | [448] |
| Demospongiae/Keratosa | <i>Dysidea avara</i> | Terpenoids | Dysideanones A-C | Cytotoxic against cancer cell lines | [449] |
| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Terpenoids | Dysidinoid A | Antimicrobial | [450] |
| Demospongiae/Keratosa | <i>Hippospongia lachne</i> | Terpenoids | Hippolide derivatives (5) | Enzyme inhibition | [451] |
| Demospongiae/Keratosa | <i>Dactylospongia metachromia</i> | Terpenoids | Quinones (7) | Cytotoxic against cancer cell lines | [452] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Terpenoids | Scalarene derivatives (5) | Enzyme inhibition | [453] |
| Demospongiae/Keratosa | <i>Cacospongia mycofijiensis</i> | Terpenoids | Cyclic terpenoids (2) | Anti-parasitic | [454] |
| Demospongiae/Keratosa | <i>Candidaspongia sp.</i> | Terpenoids | Precandidaspongolides A-B (2) | Cytotoxic against cancer cell lines | [455] |
| Demospongiae/Keratosa | <i>Carteriospongia sp.</i> | Terpenoids | Flabelliferins A-B (2) | Cytotoxic against cancer cell lines | [456] |
| Demospongiae/Keratosa | <i>Coscinoderma mathewsi</i> | Terpenoids | Terpenoids (3) | Antimicrobial | [457] |
| Demospongiae/Keratosa | <i>Coscinoderma sp.</i> | Terpenoids | Merosesterterpenoids (2) | Cytotoxic against cancer cell lines | [458] |
| Demospongiae/Keratosa | <i>Coscinoderma sp.</i> | Terpenoids | Sesterterpene (5) | Antimicrobial | [459] |

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|-----------------------|-----------------------------------|------------|-------------------------------|-------------------------------------|-------|
| Demospongiae/Keratosa | <i>Dactylospongia elegans</i> | Terpenoids | Nakijinol B and spongines (3) | Cytotoxic against cancer cell lines | [460] |
| Demospongiae/Keratosa | <i>Dactylospongia elegans</i> | Terpenoids | Quinones (5) | Cytotoxic against cancer cell lines | [461] |
| Demospongiae/Keratosa | <i>Dysidea avara</i> | Terpenoids | Dysideavarones A-D | Cytotoxic against cancer cell lines | [462] |
| Demospongiae/Keratosa | <i>Dysidea avara</i> | Terpenoids | Sesquiterpenoid | Cytotoxic against cancer cell lines | [463] |
| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Terpenoids | Meroterpenoids (5) | Antioxidant | [464] |
| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Terpenoids | Diplopuuphenone | Antioxidant | [465] |
| Demospongiae/Keratosa | <i>Fasciospongia sp.</i> | Terpenoids | Meroditerpenoids (6) | Antimicrobial | [466] |
| Demospongiae/Keratosa | <i>Hippospongia lachne</i> | Terpenoids | Hippolides A-H (8) | Enzyme inhibition | [467] |
| Demospongiae/Keratosa | <i>Hippospongia sp.</i> | Terpenoids | Hippospongides A-B | Cytotoxic against cancer cell lines | [468] |
| Demospongiae/Keratosa | <i>Hyrtios communis</i> | Terpenoids | Daeolides (6) | Enzyme inhibition | [469] |
| Demospongiae/Keratosa | <i>Ircinia sp.</i> | Terpenoids | Terpenes (3) | Cytotoxic against cancer cell lines | [470] |
| Demospongiae/Keratosa | <i>Cacospongia sp.</i> | Terpenoids | Trunculin X-Y | Cytotoxic against cancer cell lines | [471] |
| Demospongiae/Keratosa | <i>Carteriospongia foliascens</i> | Terpenoids | Sesterterpene (11) | Cytotoxic against cancer cell lines | [472] |
| Demospongiae/Keratosa | <i>Coscinoderma sp.</i> | Terpenoids | Suavine analogs (2) | Cytotoxic against cancer cell lines | [473] |
| Demospongiae/Keratosa | <i>Dactylospongia elegans</i> | Terpenoids | Dolabellane diterpene | Antibacterial | [474] |
| Demospongiae/Keratosa | <i>Dactylospongia elegans</i> | Terpenoids | Popolohuanones G - I | Anti-inflammatory | [475] |

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|-----------------------|-----------------------------------|------------|------------------------|--|-------|
| Demospongiae/Keratosa | <i>Dactylospongia elegans</i> | Terpenoids | Polyketides (1) | Cytotoxic against cancer cell lines | [476] |
| Demospongiae/Keratosa | <i>Dactylospongia elegans</i> | Terpenoids | Terpenoids (4) | Antimicrobial | [477] |
| Demospongiae/Keratosa | <i>Dactylospongia metachromia</i> | Terpenoids | Dactylocyanines A–H | Blue pigments | [478] |
| Demospongiae/Keratosa | <i>Dactylospongia sp.</i> | Terpenoids | Puupehenol | Antimicrobial | [479] |
| Demospongiae/Keratosa | <i>Dactylospongia sp.</i> | Terpenoids | Dactylospongins A–D | Anti-inflammatory | [480] |
| Demospongiae/Keratosa | <i>Dendrilla membranosa</i> | Terpenoids | Darwinolide | Inhibits Methicillin-Resistant Staphylococcus aureus Biofilm | [481] |
| Demospongiae/Keratosa | <i>Dendrilla rosea</i> | Terpenoids | Aplyresols (3) | Antimicrobial | [482] |
| Demospongiae/Keratosa | <i>Dictyoceratid sp.</i> | Terpenoids | Luakuliides (3) | Cytotoxic against cancer cell lines | [483] |
| Demospongiae/Keratosa | <i>Dysidea arenaria</i> | Terpenoids | Dysarenone | Anti-inflammatory | [484] |
| Demospongiae/Keratosa | <i>Dysidea avara</i> | Terpenoids | Quinones (8) | Cytotoxic against cancer cell lines | [485] |
| Demospongiae/Keratosa | <i>Dysidea cinerea</i> | Terpenoids | Cinerols (11) | Enzyme inhibition | [486] |
| Demospongiae/Keratosa | <i>Dysidea fragilis</i> | Terpenoids | Dysifragilones A–C | Anti-inflammatory | [487] |
| Demospongiae/Keratosa | <i>Dysidea frondosa</i> | Terpenoids | Fronodoplysins A–B (2) | Enzyme inhibition | [488] |
| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Terpenoids | Meroterpenoidss (6) | Antimicrobial | [489] |
| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Terpenoids | Avapyran | Inhibits PTP-1B | [490] |
| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Terpenoids | Dysiherbols A–C | NF-κB inhibitory and cytotoxic activity | [491] |
| Demospongiae/Keratosa | <i>Dysidea sp.</i> | Terpenoids | Dysiherbol A–C | Anti-inflammatory | [492] |

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| Demospongiae/Keratosa | <i>Dysidea villosa</i> | Terpenoids | Dysivillosins A–D | Reduce release of pro-inflammatory cytokines | [493] |
| Demospongiae/Keratosa | <i>Euryspongia sp.</i> | Terpenoids | Euryspongins and eurydiene (3) | Enzyme inhibition | [494] |
| Demospongiae/Keratosa | <i>Hippospongia lachne</i> | Terpenoids | Hippolide JJ | Antifungal | [495] |
| Demospongiae/Keratosa | <i>Hippospongia sp.</i> | Terpenoids | Rhopaloic acid H | Cytotoxic against cancer cell lines | [496] |
| Demospongiae/Keratosa | <i>Hyattella sp.</i> | Terpenoids | Sesterterpene (2) | Enzyme inhibition | [497] |
| Demospongiae/Keratosa | <i>Hyrtios digitatus</i> | Terpenoids | 19-methoxy-9,15-ene-puuphenol | Active against scavenger Receptor-Class B Type 1 HepG2 (SR-B1 HepG2) stable cell lines | [498] |
| Demospongiae/Keratosa | <i>Hyrtios erectus</i> | Terpenoids | Erectusolidos B, C, D | Cytotoxic against cancer cell lines | [499] |
| Demospongiae/Keratosa | <i>Hyrtios erectus</i> | Terpenoids | Scalarane derivative | Cytotoxic against cancer cell lines | [500] |
| Demospongiae/Keratosa | <i>Hyrtios sp.</i> | Terpenoids | Nakijinol G | Inhibits PTP-1B | [501] |
| Demospongiae/Keratosa | <i>Ircinia felix</i> | Terpenoids | Sesterterpene (5) | Cytotoxic against cancer cell lines | [502] |
| Demospongiae/Keratosa | <i>Ircinia felix</i> | Terpenoids | Sesterterpene (2) | Cytotoxic against cancer cell lines | [503] |
| Demospongiae/Keratosa | <i>Lamellodysidea herbacea</i> | Terpenoids | Sesquiterpenes (2) | Enzyme inhibitors | [504] |
| Demospongiae/Keratosa | <i>Luffariella sp.</i> | Terpenoids | Sesterterpene (6) | Cytotoxic against cancer cell lines | [505] |
| Demospongiae/Keratosa | <i>Luffariella sp.</i> | Terpenoids | Terpenes | Cytotoxic against cancer cell lines | [79] |
| Demospongiae/Keratosa | <i>Ircinia sp.</i> | Terpenoids (5) | Terpenoids | Receptor activator | [506] |

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| Demospongiae/Verongimo rpha | <i>Aplysinella strongylata</i> | Alkaloids | Psammaplysin | Antimicrobial | [507] |
| Demospongiae/Verongimo rpha | <i>Ianthella flabelliformis</i> | Alkaloids | Bastadins (2) | Receptor activator | [508] |
| Demospongiae/Verongimo rpha | <i>Ianthella quadrangulata</i> | Alkaloids | Ianthellamide A | Enzyme inhibition | [509] |
| Demospongiae/Verongimo rpha | <i>Ianthella reticulata</i> | Alkaloids | Bastadins (2) | Anti-parasitic | [510] |
| Demospongiae/Verongimo rpha | <i>Ianthella sp.</i> | Alkaloids | Lamellarine O | Antimicrobial | [511] |
| Demospongiae/Verongimo rpha | <i>Ianthella sp.</i> | Alkaloids | Dictyodendrins F-J (5) | Enzyme inhibition | [512] |
| Demospongiae/Verongimo rpha | <i>Pseudoceratina arabica</i> | Alkaloids | Ceratinines A-E (5) | Inhibit cancer cell migration | [513] |
| Demospongiae/Verongimo rpha | <i>Pseudoceratina sp.</i> | Alkaloids | Ceratinadins A-C (3) | Antifungal | [514] |
| Demospongiae/Verongimo rpha | <i>Pseudoceratina sp.</i> | Alkaloids | Pseudoceramines A-D | Antimicrobial | [515] |
| Demospongiae/Verongimo rpha | <i>Pseudoceratina verrucosa</i> | Alkaloids | Aplysamine 7 | Cytotoxic against cancer cell lines | [516] |
| Demospongiae/Verongimo rpha | <i>Aplysina lacunosa</i> | Alkaloids | Bromotyrosines (3) | Cytotoxic against cancer cell lines | [517] |
| Demospongiae/Verongimo rpha | <i>Aplysinella sp.</i> | Alkaloids | Pupuramin M | Cytotoxic against cancer cell lines | [518] |
| Demospongiae/Verongimo rpha | <i>Aplysinella sp.</i> | Alkaloids | Arapyllisins | Antibacterial | [518] |

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| Demospongiae/Verongimorpha | <i>Aplysinella sp.</i> | Alkaloids | Psammaplysin analogues (2) | Cytotoxic against cancer cell lines | [519] |
| Demospongiae/Verongimorpha | <i>Narrabeena nigra</i> | Alkaloids | Brominated tryptamines (8) | Antioxidant | [200] |
| Demospongiae/Verongimorpha | <i>Pseudoceratina arabica</i> | Alkaloids | Ceratinines F-H | Cytotoxic against cancer cell lines | [520] |
| Demospongiae/Verongimorpha | <i>Pseudoceratina purpurea</i> | Alkaloids | Bromotyrosines (2) | Antimicrobial | [521] |
| Demospongiae/Verongimorpha | <i>Pseudoceratina sp.</i> | Alkaloids | Pseudoceratinamides | Antimicrobial | [522] |
| Demospongiae/Verongimorpha | <i>Pseudoceratina sp.</i> | Alkaloids | Ceratinadins E-F | Antimalarial | [523] |
| Demospongiae/Verongimorpha | <i>Pseudoceratina sp.</i> | Peptides | Pseudoceramines A-D | Antimicrobial | [524] |
| Demospongiae/Verongimorpha | <i>Aplysinella sp.</i> | Terpenoids | Bromotyrosine derivatives (4) | Cardiovascular disease | [525] |
| Demospongiae/Verongimorpha | <i>Ianthella basta</i> | Terpenoids | Sesquibastadin | Enzyme inhibition | [526] |
| Homoscleromorpha | <i>Plakortis lita</i> | Alkaloids | Thioplakortones A-D (4) | Anti-malarial | [527] |
| Homoscleromorpha | <i>Plakortis sp.</i> | Alkaloids | Alkaloids (3) | Enzyme inhibition | [528] |
| Homoscleromorpha | <i>Plakortis sp.</i> | Alkaloids | Indoles (2) | Cytotoxic against cancer cell lines | [529] |
| Homoscleromorpha | <i>Corticium sp.</i> | Lipids | Plakinamine N | Antitubercular | [530] |
| Homoscleromorpha | <i>Plakinastrella clathrata</i> | Lipids | Fatty acid | Anti-inflammatory | [531] |
| Homoscleromorpha | <i>Plakortis angulospiculatus</i> | Lipids | Plakortisnic acid (2) | Antifungal | [532] |
| Homoscleromorpha | <i>Plakortis halichondrioides</i> | Lipids | Lipids (2) | Anti-inflammatory | [533] |

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| Homoscleromorpha | <i>Plakortis lita</i> | Lipids | Lactones (3) | Anti-malarial | [534] |
| Homoscleromorpha | <i>Plakortis simplex</i> | Lipids | Manadoperoxides A-D (4) | Anti-malarial | [535] |
| Homoscleromorpha | <i>Plakortis simplex</i> | Lipids | Methylated peroxidic acids (6) | Cytotoxic against cancer cell lines | [536] |
| Homoscleromorpha | <i>Plakortis sp.</i> | Lipids | Manzamenone O | Antimicrobial | [537] |
| Homoscleromorpha | <i>Corticium niger</i> | Lipids | Plakinamines N and O | Cytotoxic against cancer cell lines | [538] |
| Homoscleromorpha | <i>Plakina sp.</i> | Lipids | Plakinamine P | Antimicrobial | [539] |
| Homoscleromorpha | <i>Oscarella stillans</i> | Peptides | Oscarellin | Inhibitor of Inflammatory Cytokines in Macrophages | [540] |
| Homoscleromorpha | <i>Plakinastrella mamillaris</i> | Polyketides | Plakortides R-U (4) | Anti-malarial | [541] |
| Homoscleromorpha | <i>Plakortis simplex</i> | Polyketides | Simplextones A-B (2) | Cytotoxic against cancer cell lines | [542] |
| Homoscleromorpha | <i>Plakortis simplex</i> | Polyketides | Simplextone C | Enzyme inhibition | [543] |
| Homoscleromorpha | <i>Plakortis sp.</i> | Polyketides | Manzamenones L-N (3) | Antimicrobial | [544] |
| Homoscleromorpha | <i>Plakortis simplex</i> | Polyketides | Polyketides endoperoxides (5) | Anti-malarial | [545] |
| Homoscleromorpha | <i>Plakortis bergquistae</i> | Polyketides | Manadidioxans A-E | Antimicrobial | [546] |
| Homoscleromorpha | <i>Plakortis halichondrioides</i> | Polyketides | Plakortinic acid A and B | Cytotoxic against cancer cell lines | [547] |
| Homoscleromorpha | <i>Plakortis halichondrioides</i> | Polyketides | Plakinidone B-C | Antimicrobial | [548] |
| Homoscleromorpha | <i>Plakortis simplex</i> | Polyketides | Plakdiepoxide | PPAR modulation | [549] |
| Homoscleromorpha | <i>Plakortis sp.</i> | Steroids | Incisterol A5 and A6 | Receptor activator | [550] |
| Homoscleromorpha | <i>Plakinastrella mamillaris</i> | Terpenoids | Placktilactones A-F | Receptor activator | [551] |
| Homoscleromorpha | <i>Plakinastrella mamillaris</i> | Terpenoids | Gracilioethers E-J (6) | Anti-malarial | [552] |

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|------------------|-----------------------------------|------------|----------------------------|-------------------------------------|-------|
| Homoscleromorpha | <i>Plakortis lita</i> | Terpenoids | Several compounds (9) | Anti-parasitic | [553] |
| Homoscleromorpha | <i>Plakortis simplex</i> | Terpenoids | Plakortide derivatives (2) | Anti-parasitic | [554] |
| Homoscleromorpha | <i>Plakortis simplex</i> | Terpenoids | Woodylides A-C | Antifungal | [555] |
| Homoscleromorpha | <i>Plakortis simplex</i> | Terpenoids | Simplexolides A-E (6) | Antifungal | [556] |
| Homoscleromorpha | <i>Plakortis sp.</i> | Terpenoids | Lehualide E-K | Antifungal | [557] |
| Homoscleromorpha | <i>Plakortis angulospiculatus</i> | Terpenoids | Plakortides (3) | Cytotoxic against cancer cell lines | [558] |
| Homoscleromorpha | <i>Plakortis sp.</i> | Terpenoids | Cyclic peroxide acids (3) | Cytotoxic against cancer cell lines | [559] |
| n.d. | <i>n.d.</i> | Lipids | Phenyl alkene | Cytotoxic against cancer cell lines | [560] |
| n.d. | <i>n.d.</i> | Terpenoids | Diterpene (2) | Cytotoxic against cancer cell lines | [561] |

Supplementary Table S2. Cnidarian bioactive natural products isolated from 2010 to 2019. (Sorted alphabetically according to Class/Subclass and then to Chemical class of compounds)

| Class/Subclass | Producer species | Chemical Class of Compound(s) compounds | Activity/toxicity | References |
|-----------------------|---------------------|--|-------------------|------------|
| Anthozoa/Hexacorallia | <i>Zoanthus sp.</i> | Alkaloids Zoaramine and zoarenone | Anti-osteoporotic | [562] |

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|-----------------------|-----------------------------------|----------------------|--|--------------------------------------|-------|
| Anthozoa/Hexacorallia | <i>Zoanthus kuroshio</i> | Alkaloids | Kuroshines A, C–G | Cytotoxic towards cancer cells | [563] |
| Anthozoa/Hexacorallia | <i>Zoanthus kuroshio</i> | Alkaloids | 5 α -iodozoanthenamine (1) and 11 β -chloro-11-deoxykuroshine A (2) | Anti-inflammatory | [564] |
| Anthozoa/Hexacorallia | <i>Palythoa tuberculosa</i> | Alkaloids | Tuberazine A | anti-lymphangiogenesis activity | [565] |
| Anthozoa/Hexacorallia | <i>Zoanthus cf. pulchellus</i> | Alkaloids | Zoanthamine: 3-acetoxynorzoanthamine | neuroinflammatory activity | [566] |
| Anthozoa/Hexacorallia | <i>Zoanthus vietnamensis</i> | Alkaloids | Kuroshines H–J | Anti-lymphangiogenic | [567] |
| Anthozoa/Hexacorallia | <i>Zoanthus vietnamensis</i> | Alkaloids | Kuroshine K | Anti-lymphangiogenic | [567] |
| Anthozoa/Hexacorallia | <i>Zoanthus vietnamensis</i> | Alkaloids | 27-hydroxykuroshine A | Anti-lymphangiogenic | [567] |
| Anthozoa/Hexacorallia | <i>Zoanthus vietnamensis</i> | Alkaloids | 27-methyl glycinate zoanthenamine | Anti-lymphangiogenic | [567] |
| Anthozoa/Hexacorallia | <i>Zoanthus vietnamensis</i> | Alkaloids | 27-hydroxyzoanthenamine | Anti-lymphangiogenic | [567] |
| Anthozoa/Hexacorallia | <i>Zoanthus vietnamensis</i> | Alkaloids | 27-methyl glycinate kuroshine A | Anti-lymphangiogenic | [567] |
| Anthozoa/Hexacorallia | <i>Zoanthus vietnamensis</i> | Alkaloids | 3 β -hydroxy-28-deoxyzoanthenamine | Anti-lymphangiogenic | [567] |
| Anthozoa/Hexacorallia | <i>Zoanthus vietnamensis</i> | Alkaloids | 14 α -hydroxy-28-deoxyzoanthenamine | Anti-lymphangiogenic | [567] |
| Anthozoa/Hexacorallia | <i>Zoanthus vietnamensis</i> | Alkaloids | 27-hydroxy-28-deoxyzoanthenamine | Anti-lymphangiogenic | [567] |
| Anthozoa/Hexacorallia | <i>Antipathozoanthus hickmani</i> | Dipeptides | Valdiviamides B | Cytotoxic against human cancer cells | [568] |
| Anthozoa/Hexacorallia | <i>Antipathes dichotoma</i> | Lipids/Sphingolipids | Sphingolipid (1) | Antibacterial | [569] |

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|-----------------------|----------------------------------|----------------|-------------------------------|---------------------------------------|-------|
| Anthozoa/Hexacorallia | <i>Urticina crassicornis</i> | Peptides | Crassicorin-iand ii | Antimicrobial | [570] |
| Anthozoa/Hexacorallia | <i>Anthopleura elegantissima</i> | Peptides | Apetx4. | KV10.1 inhibitor | [571] |
| Anthozoa/Hexacorallia | <i>Heteractis crispera</i> | Peptides | Rhcg1.19, rhcg1.36 | Anti-inflammatory | [572] |
| Anthozoa/Hexacorallia | <i>Metridium senile</i> | Peptides | Anmtx Ms 9a-1 | Analgesic | [573] |
| Anthozoa/Hexacorallia | <i>Heteractis crispera</i> | Peptides | II-anmtx Hcr 1b-2, -3, and -4 | neurotoxin, antihyperalgesic activity | [574] |
| Anthozoa/Hexacorallia | <i>Anthopleura anjunae</i> | Peptides | Aap-h | cytotoxicity to cancer cell lines | [575] |
| Anthozoa/Hexacorallia | <i>Actinia tenebrosa</i> | Peptides | K-actitoxin-Ate1a | neurotoxin, | [576] |
| Anthozoa/Hexacorallia | <i>Heteractis magnifica</i> | Peptides | Magnificamide | alfa-amylase inhibitor | [577] |
| Anthozoa/Hexacorallia | <i>Montipora digitata</i> | Polyacetylenes | Montiporic acid D (1) | Antibacterial | [578] |
| Anthozoa/Hexacorallia | <i>Stichodactyla helianthus</i> | Proteins | Sticholysin II | Pore forming toxin | [579] |
| Anthozoa/Hexacorallia | <i>Stichodactyla helianthus</i> | Proteins | Sticholysins I and II | actinoporin | [580] |
| Anthozoa/Hexacorallia | <i>Stylophora pistillata</i> | Proteins | Δ -pocilopotoxin-spi1 | actinoporin | [581] |
| Anthozoa/Hexacorallia | <i>Anthopleura midori</i> | Steroids | Epoxyergosterols 1 and 2 | Cytotoxic towards cancer cells | [582] |
| Anthozoa/Hexacorallia | <i>Palythoa tuberculosa</i> | Steroids | Palysterols F | Apoptosis induction | [583] |
| Anthozoa/Hexacorallia | <i>Zoanthus spp.</i> | Steroids | Zoanthone A | Antiviral | [584] |

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|-----------------------|---|-----------|--|--|-------|
| Anthozoa/Hexacorallia | <i>Palythoa mutuki</i> | Steroids | Palythone A | Antiviral | [585] |
| Anthozoa/Hexacorallia | <i>Palythoa caribaeorum</i> , <i>Palythoa variabilis</i> | Steroids | 6 β -carboxyl-24(R)-(8 \rightarrow 6)-abeo-ergostan-3 β ,5 β -diol | Cytotoxic towards cancer cells | [586] |
| Anthozoa/Octocorallia | <i>Cespitularia sp.</i> | | Alcyonolide congeners (1-4) | Cytotoxic towards cancer cells | [587] |
| Anthozoa/Octocorallia | <i>Sarcophyton ehrenbergi</i> | | (S,E)-2-methyloctyl methoxyphenyl)propenoate | 4-(3- Cytotoxic towards cancer cells | [588] |
| Anthozoa/Octocorallia | <i>Echinogorgia pseudossapo</i> | Alkaloids | Malonganenones L (1) and Q (6) | PDE4D* inhibitor | [589] |
| Anthozoa/Octocorallia | <i>Abietinaria abietina</i> | Alkaloids | 6-bromogramine (1) and bis-6-bromogramine (2) | Activate NF-kb-dependent transcriptional activity in JB6 Cl 41 NF-kb cells | [590] |
| Anthozoa/Octocorallia | <i>Muriceides collaris</i> | Alkaloids | Guaiazulene alkaloids muriceidines A–C (1–3) | Cytotoxic towards cancer cells, antifouling | [591] |
| Anthozoa/Octocorallia | <i>Echinogorgia pseudossapo</i> | Alkaloids | Pseudozoanthoxanthins III (1) | Antiviral activity | [592] |
| Anthozoa/Octocorallia | <i>Paramuricea clavata</i> | Alkaloids | 2-bromo-N-methyltryptamine (1) | Antifouling activity, Antibacterial | [593] |
| Anthozoa/Octocorallia | <i>Paramuricea clavata</i> | Alkaloids | 3-bromo-N-methyltyramine (2) | Antifouling activity, antibacterial | [593] |
| Anthozoa/Octocorallia | <i>Euplexaura robusta</i> | Alkaloids | Malonganenones I–K (1–3) | Cytotoxic towards cancer cells | [594] |
| Anthozoa/Octocorallia | <i>Leptogorgia gilchristi</i> | Alkaloids | Malonganenones A–C (1–3) | Cytotoxic towards cancer cells | [595] |
| Anthozoa/Octocorallia | <i>Sinularia sp.</i> | Alkaloids | Sinulasulfoxide (1) and sinulasulfone (2) | Anti-inflammatory activity | [596] |

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| Anthozoa/Octocorallia | <i>Subergorgia suberosa</i> | butenolide | Butenolide (5R)-5-(1-ethoxypropyl)-5-hydroxy-3,4-dimethylfuran-2(5H)-one (1) | Antifouling | [597] |
| Anthozoa/Octocorallia | <i>Menella kanisa</i> | Cyclic dipeptides | Menazepine A (1) | Antifouling | [598] |
| Anthozoa/Octocorallia | <i>Sinularia sp</i> | Cyclopentenone, butenolide-type analogues | Sinularones A–I (1–9) | Antifouling | [599] |
| Anthozoa/Octocorallia | <i>Cladiella hirsuta</i> | Glycosides | Cladophenol glycosides A (3) and B (4) | Cytotoxic activities | [600] |
| Anthozoa/Octocorallia | <i>Dichotella fragilis</i> | Glycosides | Fragilioside A (1), fragilioside B (2) | Antifouling activity | [601] |
| Anthozoa/Octocorallia | <i>Sarcophyton ehrenbergi</i> | Lipids/Fatty acids and derivatives | Sarcoehrendins A–J (1–10) | PDE4D* inhibitor | [602] |
| Anthozoa/Octocorallia | <i>Clavularia viridis</i> | Lipids/Fatty acids and derivatives | Claviridins A–D (1–4) | Cytotoxic towards cancer cells | [603] |
| Anthozoa/Octocorallia | <i>Sinularia sp</i> | Lipids/Glycerolipids | Sinularioside (2) | Anti-inflammatory | [604] |
| Anthozoa/Octocorallia | <i>Anthogorgia caerulea</i> | Macrolides | Avermectins B1c and B1e (1 and 2) | Antifouling | [605] |
| Anthozoa/Octocorallia | <i>Stragulum bicolor</i> | Macrolides | Amphidinolide P, T1, C4, B8, and B9 | Cytotoxic towards cancer cells | [606] |
| Anthozoa/Octocorallia | <i>Stragulum bicolor</i> | Macrolides | Stragulin | Cytotoxic against human cancer cells | [607] |
| Anthozoa/Octocorallia | <i>Clavularia viridis</i> | Polyacetylenes | Polyacetylene | cytotoxicity to cancer cell lines | [608] |
| Anthozoa/Octocorallia | <i>Sinularia flexibilis</i> | Quinones | Flexibilisquinone (1) | Anti-inflammatory | [609] |
| Anthozoa/Octocorallia | <i>Sinularia capillosa</i> | Quinones | Capilloquinol (1) | Cytotoxic towards cancer cells, | [610] |

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| Anthozoa/Octocorallia | <i>Astrogorgia dumbea</i> | Steroidal saponins | Astrogorgiosides A (1) and B (2) bearing acetamido-glucose moieties, and astrogorgioside C (3) | Cytotoxic towards cancer cells | [611] |
| Anthozoa/Octocorallia | <i>Carijoa sp</i> | Steroids | Pregnane steroid (1) | Cytotoxic towards cancer cells, antibacterial | [612] |
| Anthozoa/Octocorallia | <i>Menella kanisa.</i> | Steroids | Polyoxygenated steroids (6, 9, 14–18, 20–23, 25–27) | Cytotoxic towards cancer cells | [613] |
| Anthozoa/Octocorallia | <i>Muriceopsis flavida</i> | Steroids | Muriflasteroids A–C (1–3) | Cytotoxic towards cancer cells | [614] |
| Anthozoa/Octocorallia | <i>Nephthea chabrolii</i> | Steroids | Nebrosteroid Q (1) and two new cytotoxic 19-norergosterols, nebrosteroids R and S (2 and 3) | Cytotoxic towards cancer cells | [615] |
| Anthozoa/Octocorallia | <i>Nephthea sp.</i> | Steroids | Steroids (1–5) | Cytotoxic towards cancer cells | [616] |
| Anthozoa/Octocorallia | <i>Nephthea sp.</i> | Steroids | Nephthoacetal (1) | Cytotoxic towards cancer cells, anti-fouling | [617] |
| Anthozoa/Octocorallia | <i>Paraminabea acronocephala</i> | Steroids | Paraminabic acids A–C (1–3) | Cytotoxic towards cancer cells, anti-inflammatory | [618] |
| Anthozoa/Octocorallia | <i>Sarcophyton sp</i> | Steroids | Compounds (1–3) | Cytotoxic towards cancer cells | [619] |
| Anthozoa/Octocorallia | <i>Sarcophyton sp.</i> | Steroids | Polyoxygenated steroids (1–7) | Antibacterial, antifungal | [620] |
| Anthozoa/Octocorallia | <i>Sarcophyton sp.</i> | Steroids | 18-oxygenated polyhydroxy steroid, (24S)-ergostan-3 β ,5 α ,6 β ,18,25-pentaol 18,25-diacetate (1), | Cytotoxic towards cancer cells | [621] |
| Anthozoa/Octocorallia | <i>Sarcophyton trocheliophorum.</i> | Steroids | Zahramycins A (1) and B (2), | Antibacterial, antifungal | [622] |
| Anthozoa/Octocorallia | <i>Scleronephthya gracillimum</i> | Steroids | Sclerosteroids J–N (1–5) | Cytotoxic towards cancer cells, anti-inflammatory | [623] |
| Anthozoa/Octocorallia | <i>Sinularia brassica</i> | Steroids | Sinubrasolidides A–G (1–7), | Cytotoxic towards cancer cells | [624] |

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| Anthozoa/Octocorallia | <i>Sinularia candidula</i> | Steroids | 3 β -25-dihydroxy-4-methyl-5 α ,8 α -epidioxy-2-ketoergost-9-ene (1) along with three new ceramides, N-[(2S,3R,E)-1,3-dihydroxyhexacos-4-en-2-yl]icosanamide (2), N-[(2S,3S,4R)-1,3,4-trihydroxyhexacosan-2-yl]icosanamide (3), and (R)-2'-hydroxy-N-[(2S,3S,4R)-1,3,4-trihydroxypentacosan-2-yl] nonadecanamide (4) | Antiviral | [625] |
| Anthozoa/Octocorallia | <i>Sinularia nanolobata</i> . | Steroids | 9,11-secosteroids, 22 α -acetoxy-24-methylene-3 β ,6 α ,11-trihydroxy-9, 11-seco-cholest-7-en-9-one (1) and 11-acetoxy-24-methylene-1 β ,3 β ,6 α -trihydroxy-9, 11-seco-cholest-7-en-9-one (2) | Antiviral | [626] |
| Anthozoa/Octocorallia | <i>Subergorgia suberosa</i> . | Steroids | Subergorgols A–J (1–10) | Cytotoxic towards cancer cells | [627] |
| Anthozoa/Octocorallia | <i>Subergorgia suberosa</i> | Steroids | Pentacyclic steroid 16,22-epoxy-20 β ,23S-dihydroxycholest-1-ene-3-one (1) and 20 β ,23S-dihydroxycholest-1-ene-3,22-dione (2) | Antifouling | [628] |
| Anthozoa/Octocorallia | <i>Echinogorgia rebekka</i> | Steroids | Echresteroids A–D (1–4) | Antiviral | [629] |
| Anthozoa/Octocorallia | <i>Echinogorgia sassapo</i> | Steroids | Sassapols A (1) | Anti-inflammatory | [630] |
| Anthozoa/Octocorallia | <i>Leptogorgia punicea</i> | Steroids | Punicinols A–E (1–5) | Cytotoxic towards cancer cells | [631] |
| Anthozoa/Octocorallia | <i>Sarcophyton pauciplicatum</i> | Steroids | Sarcopanol A (1) | Anti-inflammatory | [632] |
| Anthozoa/Octocorallia | <i>Sarcophyton trocheliophorum</i> , <i>Sinularia flexibilis</i> | Steroids | Polyhydroxylated steroids, 7 α -hydroxy-crassarosterol A (2) | Cytotoxic towards cancer cells | [633] |

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| Anthozoa/Octocorallia | <i>Subergorgia suberosa</i> | Steroids | 9,11-secosteroids 4 | Cytotoxic towards cancer cells | [634] |
| Anthozoa/Octocorallia | <i>Verrucella umbraculum</i> | Steroids | Verumbsteroids A and B (1 and 2) | Cytotoxic towards cancer cells | [635] |
| Anthozoa/Octocorallia | <i>Cladiella hirsuta</i> | Steroids | Hirsutosterosides A (1) and B(2) | Cytotoxic towards cancer cells | [600] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Steroids | 25-acetate-nebrosteroid K | Antifouling activity towards A. Salina | [636] |
| Anthozoa/Octocorallia | <i>Klyxum flaccidum</i> | Steroids | 23,24-dimethylated steroids (1 and 2), gorgosteroids(3–5), 9,11-secogorgosteroid (6) | Cytotoxic towards cancer cells, anti-inflammatory | [637] |
| Anthozoa/Octocorallia | <i>Menella woodin</i> | Steroids | Sterol derivatives (1–4) | Anti-inflammatory | [638] |
| Anthozoa/Octocorallia | <i>Sinularia acuta</i> | Steroids | Cyclopentenone 9 | Cytotoxic towards cancer cells | [639] |
| Anthozoa/Octocorallia | <i>Subergorgia rubra</i> | Steroids | Subergosterones B and C | Antibacterial | [640] |
| Anthozoa/Octocorallia | <i>Clavularia sp.</i> | Steroids | 9,11-secosteroid, haebaruol, | Cytotoxic towards cancer cells. | [641] |
| Anthozoa/Octocorallia | <i>Gorgonia sp.</i> | Steroids | Oxysterols | Anti- leishmanial | [642] |
| Anthozoa/Octocorallia | <i>Klyxum flaccidum</i> | Steroids | Klyflaccisteroids G–J | Cytotoxic towards cancer cells, anti-inflammatory | [643] |
| Anthozoa/Octocorallia | <i>Litophyton mollis</i> | Steroids | 4 α -methylated steroids | Cytotoxic towards cancer cells | [644] |
| Anthozoa/Octocorallia | <i>Nephthea columnaris</i> | Steroids | Columnaristerol A | Cytotoxic towards cancer cells | [645] |
| Anthozoa/Octocorallia | <i>Nephthea erecta</i> | Steroids | Nephtheasteroid A and B | Cytotoxic towards cancer cells | [646] |
| Anthozoa/Octocorallia | <i>Nephthea sp.</i> | Steroids | Steroid | Cytotoxic towards cancer cells | [647] |

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| Anthozoa/Octocorallia | <i>Pacifigorgia senta</i> | Steroids | Cholesta-5,24-diene-3 β ,7 β ,19-triol | Cytotoxic towards cancer cells | [648] |
| Anthozoa/Octocorallia | <i>Pinnigorgia sp</i> | Steroids | Pinnigorgiols A-C | Anti-Inflammatory, anti-oxidant | [649] |
| Anthozoa/Octocorallia | <i>Pinnigorgia sp</i> | Steroids | Pinnisterols A–C (1–3), | Cytotoxic towards cancer cells, antioxidant | [649] |
| Anthozoa/Octocorallia | <i>Pinnigorgia sp</i> | Steroids | Pinnigorgiols D and E | Anti-inflammatory | [650] |
| Anthozoa/Octocorallia | <i>Pinnigorgia sp.</i> | Steroids | 11-acetoxy-24S-methyl-3 β ,5 α ,6 α -trihydroxy-9,11-secocholest-7-en-9-one | Pro-inflammatory | [651] |
| Anthozoa/Octocorallia | <i>Pinnigorgia sp.</i> | Steroids | 5 β ,6 β -epoxy-(22E,24R)-ergosta-8,22-diene-3 β ,7 β -diol | Pro-inflammatory | [651] |
| Anthozoa/Octocorallia | <i>Sinularia microspiculata</i> | Steroids | 7-oxogorgosterol | Cytotoxic towards cancer cells | [652] |
| Anthozoa/Octocorallia | <i>Sinularia microspiculata</i> | Steroids | 16 α -hydroxysarcosterol | Cytotoxic towards cancer cells | [652] |
| Anthozoa/Octocorallia | <i>Sinularia nanolobata</i> | Steroids | 24(S),28-epoxyergost-5-ene-3 β ,4 α -diol (2) | Cytotoxic towards cancer cells | [653] |
| Anthozoa/Octocorallia | <i>Sinularia sp.</i> | Steroids | (22E)-24-methylenecholestane-22-ene-3 β ,5 α ,6 β -triol | Cytotoxic towards cancer cells | [654] |
| Anthozoa/Octocorallia | <i>Subergorgia suberosa</i> | Steroids | Subergorgols T–X | Antiviral | [655] |
| Anthozoa/Octocorallia | <i>Umbellulifera petasites</i> | Steroids | Petasitosterones A and B | Cytotoxic towards cancer cells | [656] |
| Anthozoa/Octocorallia | <i>Umbellulifera petasites</i> | Steroids | Spirosteroid petasitosterone C | Anti-inflammatory | [656] |
| Anthozoa/Octocorallia | <i>Lobophytum sp.</i> | Steroids | Lobophytene (1) | Cytotoxic towards cancer cells | [657] |
| Anthozoa/Octocorallia | <i>Scleronephthya sp.</i> | Steroids | Scleronine | Inhibition of cell migration | [658] |

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| Anthozoa/Octocorallia | <i>Pinnigorgia sp.</i> | Steroids | 11-acetoxy-9,11-secoesters, pinnisterols D–J (1–7) | Cytotoxic towards cancer cells; anti-inflammatory | [659] |
| Anthozoa/Octocorallia | <i>Carijoa riisei</i> | Steroids | 15 β -hydroxypregna-4,20-dien-3-one | Cytotoxic towards cancer cells | [660] |
| Anthozoa/Octocorallia | <i>Carijoa riisei</i> | Steroids | 18-acetoxypregna-1,4,20-trien-3-one | Cytotoxic towards cancer cells | [660] |
| Anthozoa/Octocorallia | <i>Carijoa riisei</i> | Steroids | 15 β -acetoxypregna-1,4,20-trien-3-one | Cytotoxic towards cancer cells | [660] |
| Anthozoa/Octocorallia | <i>Carijoa riisei</i> | Steroids | 20R-acetoxypregna-1,4-dien-3-one | Cytotoxic towards cancer cells | [660] |
| Anthozoa/Octocorallia | <i>Klyxum flaccidum</i> | Steroids | Klyflaccisteroids K–M (1–3), | Cytotoxic towards cancer cells | [661] |
| Anthozoa/Octocorallia | <i>Lobophytum crassum</i> | Steroids | 24-methylenecholest-5-ene-1 α ,3 β ,11 α -triol 1-acetate | Cytotoxic towards cancer cells | [662] |
| Anthozoa/Octocorallia | <i>Nephthea columnaris</i> | Steroids | Columnaristerols B and C | Anti-inflammatory | [663] |
| Anthozoa/Octocorallia | <i>Nephthea erecta</i> | Steroids | 24-methyl-cholesta-5,24(28)-diene-3,19-diol-7 - monoacetate (mecdda) | Cytotoxic towards cancer cells | [664] |
| Anthozoa/Octocorallia | <i>Pinnigorgia sp.</i> | Steroids | 5,6 -epoxy-(22E,24R)-3,11-dihydroxy-9,11-secoergosta-7-en-9-one | Anti-inflammatory | [665] |
| Anthozoa/Octocorallia | <i>Pinnigorgia sp.</i> | Steroids | (22R)-acetoxy-(24x)-ergosta-5-en-3,25-diol | Anti-inflammatory | [665] |
| Anthozoa/Octocorallia | <i>Pseudopterogorgia americana</i> | Steroids | Ameristerenol A and B | Cytotoxic towards cancer cells | [666] |
| Anthozoa/Octocorallia | <i>Sinularia brassica</i> | Steroids | Sinubrassione | Cytotoxic towards cancer cells | [667] |
| Anthozoa/Octocorallia | <i>Sinularia brassica</i> | Steroids | Sinubrasones A–D | B-c: Cytotoxic towards cancer cells; C-d: anti-inflammatory | [668] |

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| Anthozoa/Octocorallia | <i>Sinularia conferta</i> . | Steroids | Ergosta-24(28)-ene-3 β ,5 α ,6 β -triol-6-acetate | Cytotoxic towards cancer cells | [669] |
| Anthozoa/Octocorallia | <i>Sinularia leptoclados</i> | Steroids | Leptosteroid; 5,6 β -epoxygorgosterol | Cytotoxic towards cancer cells | [670] |
| Anthozoa/Octocorallia | <i>Xenia umbellata</i> | Steroids | 3 β -,5 α -,6 β -,11 α -,20 β -pentahydroxygorgosterol | Antimicrobial | [671] |
| Anthozoa/Octocorallia | <i>Sinularia brassica</i> | Steroids | Sinubrasolides H–L | Anti-inflammatory | [672] |
| Anthozoa/Octocorallia | <i>Verrucella corona</i> | Steroids | Verrucosterone | Cytotoxic towards cancer cells | [673]. |
| Anthozoa/Octocorallia | <i>Sinularia</i> sp | Steroids | Ximaosteroid E, F | cytotoxicity to cancer cell lines | [674] |
| Anthozoa/Octocorallia | <i>Lobophytum michaelae</i> | Steroids | Michosterols A–C | cytotoxicity to cancer cell lines and anti-inflammatory activity | [675] |
| Anthozoa/Octocorallia | <i>Dendronephthya gigantea</i> | Steroids | 7-dehydroerectasteroid F | antioxidant | [676] |
| Anthozoa/Octocorallia | <i>Sinularia</i> sp | Steroids | 2 ergostane-type sterols | Cytotoxic against human cancer cells | [677] |
| Anthozoa/Octocorallia | <i>Carijoa</i> sp. | Steroids | Carijoside A (1) | Cytotoxic towards cancer cells | [678] |
| Anthozoa/Octocorallia | <i>Astrogorgia</i> sp. | Steroids | Astrogorgols A–N (1–14) | Protein kinases inhibition | [679] |
| Anthozoa/Octocorallia | <i>Carijoa multiflora</i> | Steroids | Carijodienone 1 | Antimicrobial | [680] |
| Anthozoa/Octocorallia | <i>Dendronephthya mucronata</i> | Steroids | 5- α -pregn-20-en-3,6-dione | Anti-Inflammatory | [681] |
| Anthozoa/Octocorallia | <i>Dendronephthya</i> sp. | Steroids | Dendronesterones D and E | Anti-Inflammatory | [682] |
| Anthozoa/Octocorallia | <i>Lobophytum</i> sp. | Steroids | Lobophysterols D | Cytotoxic against human cancer cells | [683] |

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| Anthozoa/Octocorallia | <i>Cladiella hirsuta</i> | Steroids | Hirsutosterols A–G (1–7) | Cytotoxic towards cancer cells | [684] |
| Anthozoa/Octocorallia | <i>Isis hippuris</i> | Steroids | Polyoxygenated steroids (1–6) | Cytotoxic towards cancer cells, Antiviral | [685] |
| Anthozoa/Octocorallia | <i>Isis hippuris</i> | Steroids | Polyoxygenated steroids (1–4) | Cytotoxic towards cancer cells | [686] |
| Anthozoa/Octocorallia | <i>Isis hippuris</i> | Steroids | Hipposterone M–O (1–3) | Antiviral | [687] |
| Anthozoa/Octocorallia | <i>Lobophytum laevigatum</i> | Steroids | Lobophytosterol (1) | Cytotoxic towards cancer cells | [688] |
| Anthozoa/Octocorallia | <i>Muricella flexuosa</i> | Steroids | Muricellasteroids A– E (1 – 5) | Cytotoxic towards cancer cells | [689] |
| Anthozoa/Octocorallia | <i>Paraminabea sp.</i> | Steroids | Methyl-3-oxochola-1,4-dien-24-oate (1) | Cytotoxic towards cancer cells | [690] |
| Anthozoa/Octocorallia | <i>Isis minorbrachyblasta</i> | Steroids | (1a,3b,7a,11a,12b)-gorgost-5-ene-1,3,7,11,12-pentol 12-acetate (1), 11-O-acetyl-22-epihippuristanol (2) | Cytotoxic towards cancer cells | [691] |
| Anthozoa/Octocorallia | <i>Lobophytum patulum</i> | Steroids | Patusterol A and B (2, 3) | Antifouling activity | [692] |
| Anthozoa/Octocorallia | <i>Lobophytum sarcophytoides</i> | Steroids | Sarcophytosterol (1) | Anti-inflammatory | [693] |
| Anthozoa/Octocorallia | <i>Menella sp.</i> | Steroids | Menellin A (1), menellsteroid C (2) | Anti-inflammatory | [694] |
| Anthozoa/Octocorallia | <i>Paraminabea acronocephala</i> | Steroids | Paraminabeolides A–F (1–6) | Cytotoxic towards cancer cells | [695] |
| Anthozoa/Octocorallia | <i>Scleronephthya flexilis</i> | Steroids | 3 β -methoxy-5,20-pregnadiene (1) | Cytotoxic towards cancer cells | [696] |

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| Anthozoa/Octocorallia | <i>Scleronephthya gracillimum</i> | Steroids | Clerosteroids aei (1, 5, 6, 8e13) | Cytotoxic towards cancer cells, anti-inflammatory | [697] |
| Anthozoa/Octocorallia | <i>Sinularia crassa</i> | Steroids | Crassarosterol A (1), | Cytotoxic towards cancer cells | [698] |
| Anthozoa/Octocorallia | <i>Sinularia crassa</i> | Steroids | Crassarosterosides A–D (2–5) | Inti-inflammatory | [698] |
| Anthozoa/Octocorallia | <i>Sinularia granosa</i> | Steroids | New 9,11-secosteroid, 8ah-3b,11-dihydroxy-5a,6a-expoxy-24-methylene-9,11-secocholestan-9-one (1) | Anti-inflammatory | [699] |
| Anthozoa/Octocorallia | <i>Sinularia humilis</i> | Steroids | Sinularosides A and B (1, 2) | Antifungal, antibacterial | [700] |
| Anthozoa/Octocorallia | <i>Subergorgia suberosa</i> . | Steroids | (3b,12b,16b,23E)-cholesta-5,23-diene-3,12,16,20,25-pentaol (1) and (3b,12b,16b)-cholesta-5,25(26)-diene-3,12,16,20,24-pentaol (2) | Cytotoxic towards cancer cells | [701] |
| Anthozoa/Octocorallia | <i>Briareum excavatum</i> | Terpenoids | Excavatoids L–N (1–3) | Anti-inflammatory | [702] |
| Anthozoa/Octocorallia | <i>Anthogorgia sp</i> | Terpenoids | Anthogorgienes A–O (1–15) | Antifouling | [703] |
| Anthozoa/Octocorallia | <i>Anthogorgia sp.</i> | Terpenoids | Anthogorgiene P (1), anthogorgiene Q (2) | Antifouling | [704] |
| Anthozoa/Octocorallia | <i>Astrogorgia</i> | Terpenoids | Astrogorgins B–M (1–12) | Antifouling | [705] |
| Anthozoa/Octocorallia | <i>Briareum asbestinum</i> | Terpenoids | Seco-briarellinone (1) and briarellin S (2), | Anti-inflammatory | [706] |
| Anthozoa/Octocorallia | <i>Briareum asbestinum</i> | Terpenoids | Riareolate ester K (2) | Antiproliferative | [707] |
| Anthozoa/Octocorallia | <i>Briareum excavatum</i> | Terpenoids | Briacavatolides A–C (1–3) | Anti viral | [708] |

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| Anthozoa/Octocorallia | <i>Briareum sp.</i> | Terpenoids | Briarenolides, F (1) and G (2) | Anti inflammatory | [709] |
| Anthozoa/Octocorallia | <i>Briareum sp.</i> | Terpenoids | Briarenolides H (1) and I (2) | Anti inflammatory | [710] |
| Anthozoa/Octocorallia | <i>Briareum sp.</i> | Terpenoids | Briarenolide E (1), | Anti inflammatory | [711] |
| Anthozoa/Octocorallia | <i>Cespitularia sp.</i> | Terpenoids | Diterpenoids 1–5 | Cytotoxic towards cancer cells | [587] |
| Anthozoa/Octocorallia | <i>Briareum excavatum</i> | Terpenoids | Excavatoids O (1) and P (2) | Anti-inflammatory | [712] |
| Anthozoa/Octocorallia | <i>Briareum excavatum</i> (accepted <i>Briareum stechei</i>) | Terpenoids | Excavatoids GK | Anti-inflammatory | [712]. |
| Anthozoa/Octocorallia | <i>Cespitularia taeniata</i> | Terpenoids | Verticillanes, cespitulins E–G (1–3) | Anti-inflammatory | [713] |
| Anthozoa/Octocorallia | <i>Cladiella sp.</i> | Terpenoids | Cladieunicellin H (1) | Anti-inflammatory | [714] |
| Anthozoa/Octocorallia | <i>Cladiella sp.</i> | Terpenoids | Cladieunicellin G (1) and 6-epi-cladieunicellin F (2) | Anti-inflammatory | [715] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Terpenoids | Gemmacolides T–Y (1–6) | Cytotoxic towards cancer cells | [716] |
| Anthozoa/Octocorallia | <i>Echinomuricea sp</i> | Terpenoids | Echinoclerodane A (1) | Cytotoxic towards cancer cells, anti-inflammatory | [717] |
| Anthozoa/Octocorallia | <i>Echinomuricea sp.</i> | Terpenoids | Echinohalimane A (1), | Cytotoxic towards cancer cells, anti-inflammatory | [718] |
| Anthozoa/Octocorallia | <i>Echinomuricea sp.</i> | Terpenoids | Echinolabdane A (1) | Cytotoxic towards cancer cells, anti-inflammatory | [719] |
| Anthozoa/Octocorallia | <i>Eunicea fusca</i> | Terpenoids | Eunicidiol (1), | Anti-inflammatory | [720] |

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| Anthozoa/Octocorallia | <i>Eunicea knighti</i> | Terpenoids | Knightine (1), 11(R)-hydroxy-12(20)-en-knightal (2), and 11(R)-hydroxy-12(20)-en-knightol acetate (3) | Antibacterial | [721] |
| Anthozoa/Octocorallia | <i>Eunicea sp.</i> | Terpenoids | Diterpenoids, 1 and 2 | Antibacterial | [722] |
| Anthozoa/Octocorallia | <i>Briareum polyanthes</i> (accepted as <i>Briareum asbestinum</i>) | Terpenoids | Briarellins 1-9 and polyanthellin A (10) | Antiparasite | [723] |
| Anthozoa/Octocorallia | <i>Junceella juncea</i> | Terpenoids | Juncenolides M–O (1–3) (briarenes) | Anti-inflammatory | [724] |
| Anthozoa/Octocorallia | <i>Klyxum simplex</i> | Terpenoids | Simplexins P–S (1–4) | Cytotoxic towards cancer cells | [725] |
| Anthozoa/Octocorallia | <i>Lobophytum michaelae</i> | Terpenoids | Michaelides L–Q (1–6) | Cytotoxic towards cancer cells | [726] |
| Anthozoa/Octocorallia | <i>Lobophytum pauciflorum</i> | Terpenoids | Cyclolobatriene (1) | Cytotoxic towards cancer cells | [727] |
| Anthozoa/Octocorallia | <i>Melitodes squamata</i> | Terpenoids | (–)-4β-N-methenetauryl-10β-methoxy-1β,5β,6α,7α-aromadendrane (7), | Antibacterial | [728] |
| Anthozoa/Octocorallia | <i>Menella sp. and Lobophytum crassum</i> | Terpenoids | Menelloide E (1) and lobocrassin F (2) | Anti-inflammatory | [729] |
| Anthozoa/Octocorallia | <i>Sarcophyton crassaule</i> | Terpenoids | Sarcocrassocolides M–O (1–3) | Cytotoxic towards cancer cells, anti-inflammatory | [730] |
| Anthozoa/Octocorallia | <i>Sarcophyton ehrenbergi</i> | Terpenoids | (+)-12-ethoxycarbonyl-11Z-sarcophine ehrenbergol A and B (2 and 3). | (1), Cytotoxic towards cancer cells, antiviral | [731] |
| Anthozoa/Octocorallia | <i>Sarcophyton glaucum</i> | Terpenoids | 11(S) hydroperoxylsarcoph-12(20)-ene (1), hydroperoxylsarcoph-10-ene (2), sarcophinone (3) | 12(S)- Inhibitors of cytochrome P450, 8-epi- inducers of glutathione S-transferases (GST), quinone | [732] |

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| | | | | reductase (QR), and epoxide hydrolase (meh) | |
| Anthozoa/Octocorallia | <i>Sarcophyton sp.</i> | Terpenoids | Dihydrofuranocembranoids 1 and 2 | Cytotoxic towards cancer cells | [733] |
| Anthozoa/Octocorallia | <i>Briareum sp.</i> | Terpenoids | Briarenolide D (1) | Cytotoxic towards cancer cells | [734] |
| Anthozoa/Octocorallia | <i>Sarcophyton trocheliophorum</i> | Terpenoids | Yalongenes A (1) and B (2) | Cytoprotective | [735] |
| Anthozoa/Octocorallia | <i>Sinularia flexibilis</i> | Terpenoids | Flexibilisolides C–G (1–5), flexibilisin C (6), 11,12-secoflexibillin (7) | Cytotoxic towards cancer cells, anti-inflammatory | [736] |
| Anthozoa/Octocorallia | <i>Sinularia lochmodes.</i> | Terpenoids | Lochmolins A–G (1–7) | Anti-inflammatory | [737] |
| Anthozoa/Octocorallia | <i>Sinularia pavidia</i> | Terpenoids | Pavidolides C and D (3,4) | Antifouling | [738] |
| Anthozoa/Octocorallia | <i>Sinularia pavidia</i> | Terpenoids | Pavidolides B and C (2, 3) | Cytotoxic towards cancer cells | [738] |
| Anthozoa/Octocorallia | <i>Sinularia scabra</i> | Terpenoids | Scabralins A (1) and B (2) | Cytotoxic towards cancer cells, anti-inflammatory | [739] |
| Anthozoa/Octocorallia | <i>Sinularia sp.</i> | Terpenoids | Diterpene (1), lobane (2) | Cytotoxic towards cancer cells | [740] |
| Anthozoa/Octocorallia | <i>Sinularia sp.</i> | Terpenoids | 5-episinuleptolide acetate (1) | Cytotoxic towards cancer cells | [741] |
| Anthozoa/Octocorallia | <i>Cladiella hirsuta</i> | Terpenoids | Hirsutalins A–H (1–8) | Anti-inflammatory | [742] |
| Anthozoa/Octocorallia | <i>Cladiella sp.</i> | Terpenoids | Cladielloides A (1) and B (2) | Cytotoxic towards cancer cells | [742] |
| Anthozoa/Octocorallia | <i>Cladiella pachyclados</i> | Terpenoids | Pachycladins A–E (1–5) | Cytotoxic towards cancer cells | [743] |
| Anthozoa/Octocorallia | <i>Sinularia candidula</i> | Terpenoids | N-[(2S,3R,E)-1,3-dihydroxyhexacos-4-en-2-yl]icosanamide (2), N-[(2S,3S,4R)-1,3,4- | Antiviral | [625] |

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| | | | trihydroxyhexacosan-2-yl]icosanamide (3), and (R)-2'-hydroxy-N-[(2S,3S,4R)-1,3,4-trihydroxypentacosan-2-yl] nonadecanamide (4) | | |
| Anthozoa/Octocorallia | <i>Cladiella hirsuta</i> | Terpenoids | Hirsutalins I–M (1–5) | Anti-inflammatory | [744] |
| Anthozoa/Octocorallia | <i>Cladiella krempfi</i> | Terpenoids | Krempfielins J–M (1–4) | Anti-inflammatory | [745] |
| Anthozoa/Octocorallia | <i>Cladiella krempfi</i> | Terpenoids | Krempfielins E–I (1–5) | Cytotoxic towards cancer cells | [746] |
| Anthozoa/Octocorallia | <i>Cladiella sp</i> | Terpenoids | Cladieunicellin I (1) | Cytotoxic towards cancer cells | [747] |
| Anthozoa/Octocorallia | <i>Cladiella sp</i> | Terpenoids | Eunicellin-based diterpenoids, cladieunicellins K (1) and L (2) | Cytotoxic towards cancer cells | [748] |
| Anthozoa/Octocorallia | <i>Cladiella sp.</i> | Terpenoids | Australins E–H (1–4) | Activate the inositol 5-phosphatase SHIP1 | [749] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Terpenoids | Gemmacolides AA–AR (1–18) ((11,20-epoxy-3Z,5E-dien briaranes)) | Cytotoxic towards cancer cells | [750] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Terpenoids | Dichotellides F–U (1–16) | Antifouling | [751] |
| Anthozoa/Octocorallia | <i>Junceella fragilis</i> | Terpenoids | Frajunolides P–S (1–4) | Anti-inflammatory | [752] |
| Anthozoa/Octocorallia | <i>Klyxum molle</i> | Terpenoids | Klymollins I–S (1–11) | Anti-inflammatory | [753] |
| Anthozoa/Octocorallia | <i>Lemnalia philippinensis</i> | Terpenoids | Philippinlins A and B (1 and 2) | Cytotoxic towards cancer cells | [754] |
| Anthozoa/Octocorallia | <i>Lobophytum pauciflorum</i> | Terpenoids | Lobophytones A–G (1–7) | Anti-inflammatory | [755] |
| Anthozoa/Octocorallia | <i>Lobophytum sp.</i> | Terpenoids | 7,8-epoxycembranoid (1-4) | Anti-inflammatory | [756] |

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| Anthozoa/Octocorallia | <i>Lobophytum sp.</i> | Terpenoids | Cembranoid (1-3) | Cytotoxic towards cancer cells, [757] antibacterial |
| Anthozoa/Octocorallia | <i>Muricella sibogae</i> | Terpenoids | Sibogin A and B (1 and 2) | Cytotoxic towards cancer cells [758] |
| Anthozoa/Octocorallia | <i>Muricella sibogae</i> | Terpenoids | 9,10-secosteroids sibogol A–C (6–8), | Cytotoxic towards cancer cells [758] |
| Anthozoa/Octocorallia | <i>Paralemmalia thyrsoides</i> | Terpenoids | Parathyrsoindins A–D (1–4) | Cytotoxic towards cancer cells [759] |
| Anthozoa/Octocorallia | <i>Convexella magelhaenica</i> | Terpenoids | Dolabellane diterpenoids (1 and 2) | Cytotoxic towards cancer cells [760] |
| Anthozoa/Octocorallia | <i>Rumphella antipathies</i> | Terpenoids | 2 β -acetoxyclovan-9 α -ol (1), 9 α -acetoxyclovan-2 β -ol (2) | Anti-inflammatory [761] |
| Anthozoa/Octocorallia | <i>Sarcophyton ehrenbergi</i> | Terpenoids | Ehrenbergol C and acetyl ehrenberoxide B (1 and 2) | Antiviral [762] |
| Anthozoa/Octocorallia | <i>Sarcophyton elegans</i> | Terpenoids | Sarcophyolides B–E (1–4) | Cytotoxic towards cancer cells [763] |
| Anthozoa/Octocorallia | <i>Sarcophyton glaucum</i> | Terpenoids | Sarglaucol(1) | Cytotoxic towards cancer cells [764] |
| Anthozoa/Octocorallia | <i>Sarcophyton glaucum</i> | Terpenoids | Diterpene (1S,2E,4R,6E,8S,11R,12S)-8,11-epoxy-4,12-epoxy-2,6-cembradiene (2), diterpene (1S,2E,4R,6E,8R,11S,12R)-8,12-epoxy-2,6-cembradiene-4,11-diol (3) and (1S,4R,13S)-cembra-2E,7E,11E-trien-4,13-diol (6) | Cytotoxic towards cancer cells, [765] antifungal |
| Anthozoa/Octocorallia | <i>Sarcophyton pauciplicatum</i> | Terpenoids | Sarcophytolides M and N (1 and 2) | Cytotoxic towards cancer cells [766] |
| Anthozoa/Octocorallia | <i>Sarcophyton trocheliophorum</i> | Terpenoids | Arcotroates A and B (3 and 4) | Inhibition of protein tyrosine phosphatase 1B (PTP1B) [767] |

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| Anthozoa/Octocorallia | <i>Sinularia capillosa</i> | Terpenoids | Capillosananes A–N (1–14) | Antifouling | [768] |
| Anthozoa/Octocorallia | <i>Sinularia capillosa</i> | Terpenoids | Capillosananes B and I and (–)-sinularone A | Anti-inflammatory | [768] |
| Anthozoa/Octocorallia | <i>Sinularia flexibilis</i> | Terpenoids | Flexibilin D (2) | Anti-inflammatory | [769] |
| Anthozoa/Octocorallia | <i>Sinularia flexibilis</i> | Terpenoids | 11-acetylsinuflexolide (1) | Cytotoxic towards cancer cells | [770] |
| Anthozoa/Octocorallia | <i>Klyxum simplex</i> | Terpenoids | Klysimplexin sulfoxides A–C (1–3) | Anti-inflammatory activity | [771]. |
| Anthozoa/Octocorallia | <i>Sinularia gaweli</i> | Terpenoids | Flexibilin D (2) | Anti-inflammatory | [772] |
| Anthozoa/Octocorallia | <i>Sinularia leptoclados</i> | Terpenoids | Leptoclalin A (1) | Cytotoxic towards cancer cells | [773] |
| Anthozoa/Octocorallia | <i>Lobophytum crassum</i> | Terpenoids | Lobocrasols A and B (1 and 2) | Anti-inflammatory | [774] |
| Anthozoa/Octocorallia | <i>Sinularia maxima</i> | Terpenoids | 12-hydroxy-scabrolide A (2) and 13- <i>epi</i> -scabrolide C (6) | Anti-inflammatory | [774] |
| Anthozoa/Octocorallia | <i>Sinularia rigida</i> | Terpenoids | Sinulariols T–Z ₅ (7) | Antifouling | [775] |
| Anthozoa/Octocorallia | <i>Sinularia sp.</i> | Terpenoids | Sinularcasbanes A and E (2 and 5) | Anti-inflammatory | [776] |
| Anthozoa/Octocorallia | <i>Sinularia sp.</i> | Terpenoids | Sinularianins C–F (3–6) | Anti-inflammatory | [777] |
| Anthozoa/Octocorallia | <i>Lobophytum crassum</i> | Terpenoids | Diterpenes (1–4) | Anti-inflammatory | [778] |
| Anthozoa/Octocorallia | <i>Lobophytum pauciflorum</i> | Terpenoids | Lobophytone H–N (1–7) | Anti-inflammatory | [779] |
| Anthozoa/Octocorallia | <i>Lobophytum pauciflorum</i> | Terpenoids | Lobophytone O–S (1–5) | Anti-inflammatory, antibacterial | [779] |

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| Anthozoa/Octocorallia | <i>Anthogorgia caerulea</i> | Terpenoids | Anthogonoid A and antsimplexin A (1–2), | Antifouling | [780] |
| Anthozoa/Octocorallia | <i>Briareum sp.</i> | Terpenoids | Briarenolide J (1) | Anti-inflammatory | [781] |
| Anthozoa/Octocorallia | <i>Briareum violacea</i> | Terpenoids | Briaviolides A–J (5 and 9) | Anti-inflammatory | [782] |
| Anthozoa/Octocorallia | <i>Cespitularia taeniata</i> | Terpenoids | Cespitulones A (1) | Cytotoxic towards cancer cells | [783] |
| Anthozoa/Octocorallia | <i>Cladiella</i> | Terpenoids | Cladieunicellin J (1) | Cytotoxic towards cancer cells | [784] |
| Anthozoa/Octocorallia | <i>Cladiella hirsuta</i> | Terpenoids | Eunicellin-type hirsutalins N–R (1–5) | Anti-inflammatory | [785] |
| Anthozoa/Octocorallia | <i>Cladiella kremphi</i> | Terpenoids | Kremphielins Q and R (1 and 2) | Anti-inflammatory | [786] |
| Anthozoa/Octocorallia | <i>Cladiella kremphi</i> | Terpenoids | Kremphielins N–P (1–3) | Anti-inflammatory | [787] |
| Anthozoa/Octocorallia | <i>Cladiella sp</i> | Terpenoids | Cladieunicellins M–Q (1–5) | Cytotoxic towards cancer cells | [788] |
| Anthozoa/Octocorallia | <i>Lobophytum schoedei</i> | Terpenoids | Lobophynins A (1), B (2), C (3) | Antifouling activity | [789] |
| Anthozoa/Octocorallia | <i>Dendronephthya sp.</i> | Terpenoids | Dendronephthol A (7,13-dihydroxy-3,4-dihydro-a-ylang-5-one) (1), dendronephthol C (6,7,13-trihydroxy-a-ylang-5-one) (3)(6,7,13-trihydroxy-a-ylang-5-one) (3) | Cytotoxic towards cancer cells | [790] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Terpenoids | Gemmacolides AS–AY (1–7) | Antiproliferative | [791] |
| Anthozoa/Octocorallia | <i>Eunicea pinta</i> | Terpenoids | Pintoxolanes A–C (1 – 3) | Cytotoxic towards cancer cells | [792] |
| Anthozoa/Octocorallia | <i>Junceella fragilis</i> | Terpenoids | Fragilisinins A–L (5,6,10) | Antifouling | [793] |

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| Anthozoa/Octocorallia | <i>Klyxum molle</i> | Terpenoids | Klymollins T–X (1–5) | Cytotoxic towards cancer cells, anti-inflammatory | [794] |
| Anthozoa/Octocorallia | <i>Klyxum molle</i> | Terpenoids | Klymollins I–S (1–11), | Anti-inflammatory | [753] |
| Anthozoa/Octocorallia | <i>Lobophytum crassum</i> | Terpenoids | Secocrassumol | Antiviral | [795] |
| Anthozoa/Octocorallia | <i>Menella kanisa</i> | Terpenoids | Menecubebane A (1) | Antifouling | [796] |
| Anthozoa/Octocorallia | <i>Muricella sibogae</i> | Terpenoids | Sibogins B (2) | Antifouling | [797] |
| Anthozoa/Octocorallia | <i>Nephthea erecta</i> | Terpenoids | Kelsoenethiol (1) | Cytotoxic towards cancer cells | [798] |
| Anthozoa/Octocorallia | <i>Lobophytum sp.</i> | Terpenoids | Crassumolide E (3) | Ache Inhibitor | [799] |
| Anthozoa/Octocorallia | <i>Pennatula aculeata</i> | Terpenoids | 2-acetoxyverecynarmin C | Anti-inflammatory | [800] |
| Anthozoa/Octocorallia | <i>Rumphella antipathies</i> | Terpenoids | Rumphellois A and B (1 and 2) | Anti-inflammatory | [801] |
| Anthozoa/Octocorallia | <i>Rumphella antipathies</i> | Terpenoids | Rumphelloic acid A (1) | Anti-inflammatory | [802] |
| Anthozoa/Octocorallia | <i>Rumphella antipathies</i> | Terpenoids | Rumphelloones B (1) and C (2) | Anti-inflammatory | [803] |
| Anthozoa/Octocorallia | <i>Sarcophyton auritum</i> | Terpenoids | 2-epi-sarcophine (2) and (1R,2E,4S,6E,8R,11R,12R)-2,6-cembradiene-4,8,11,12-tetrol (4) | Cytotoxic towards cancer cells | [804] |
| Anthozoa/Octocorallia | <i>Sarcophyton crassaule</i> | Terpenoids | Sarcocrassocolides P–R (1–3) | Anti-inflammatory | [805] |
| Anthozoa/Octocorallia | <i>Sarcophyton ehrenbergi</i> | Terpenoids | 7-keto-8 α -hydroxy-deepoxysarcophine, 7 β -chloro-8 α -hydroxy-12-acetoxy-deepoxysarcophine,(E)- | Cytotoxic towards cancer cells | [806] |

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| | | | methyl-3-(5-butyl-1-hydroxy-2,3-dimethyl-4-oxocyclopent-2-enyl) acrylate | | |
| Anthozoa/Octocorallia | <i>Sarcophyton glaucum</i> | Terpenoids | Sarcophytolol (1), sarcophytolide B (2), and sarcophytolide C (3) | Cytotoxic towards cancer cells | [807] |
| Anthozoa/Octocorallia | <i>Sarcophyton sp.</i> | Terpenoids | Sarcophyton A, sarcophyton B, sarcophyton C, sarcophyton D | Cytotoxic towards cancer cells | [808] |
| Anthozoa/Octocorallia | <i>Sarcophyton tortuosum</i> | Terpenoids | Tortuosenes A and B (1 and 2) | Anti-inflammatory | [809] |
| Anthozoa/Octocorallia | <i>Paralemnalia thyrsoides</i> | Terpenoids | Paralemnolins J–O (1–6) | Cytotoxic towards cancer cells | [810] |
| Anthozoa/Octocorallia | <i>Sarcophyton trocheliophorum</i> | Terpenoids | Sarsolilides B (5) | Inhibitory activity towards protein tyrosine phosphatases 1B (PTP1B) | [811] |
| Anthozoa/Octocorallia | <i>Sarcophyton trocheliophorum</i> | Terpenoids | Sarsolilides B (5) | Inhibitory towards protein tyrosine phosphatases 1B (PTP1B) | [811] |
| Anthozoa/Octocorallia | <i>Sinularia arborea</i> | Terpenoids | Sinularbols A (1) and B (2) | Anti-inflammatory | [812] |
| Anthozoa/Octocorallia | <i>Sinularia gyrosa</i> | Terpenoids | Sinugyrosanolide A | Cytotoxic towards cancer cells | [813] |
| Anthozoa/Octocorallia | <i>Sinularia sp.</i> | Terpenoids | Sinulariaoid A (1), sinulariaoid B (2), sinulariaoid C (3), sinulariaoid D (4) | Cytotoxic towards cancer cells | [814] |
| Anthozoa/Octocorallia | <i>Xenia elongata</i> | Terpenoids | New diterpenes (2, 3) | Apoptosis induction | [815] |
| Anthozoa/Octocorallia | <i>Capnella sp.</i> | Terpenoids | Capgermacrenes A (1) | Anti-inflammatory | [816] |
| Anthozoa/Octocorallia | <i>Paralemnalia thyrsoides</i> | Terpenoids | (1S,2S,4R,6S,7R,8S)-4a-formyloxy-b-ylangene (1) | Anti-inflammatory | [817] |

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| Anthozoa/Octocorallia | <i>Briareum sp</i> | Terpenoids | Briarenolides K (1) and L (2) | Anti-inflammatory | [818] |
| Anthozoa/Octocorallia | <i>Briareum sp.</i> | Terpenoids | Briarenolides U–Y (1–5) | Anti-inflammatory | [819] |
| Anthozoa/Octocorallia | <i>Cespitularia taeniata</i> | Terpenoids | Cespilamide E (7) | Cytotoxic towards cancer cells. | [820] |
| Anthozoa/Octocorallia | <i>Cespitularia taeniata</i> | Terpenoids | Cespitaenins A (6) | Cytotoxic towards cancer cells | [820] |
| Anthozoa/Octocorallia | <i>Litophyton arboreum</i> | Terpenoids | 3a,6a-epidioxyhimachal-1-ene (1), 22-norergostane derivative, 13,14-seco-22-norergosta-4,24(28)-dien-19-hydroperoxide-3-one (2) | Antiproliferative | [821] |
| Anthozoa/Octocorallia | <i>Litophyton arboreum</i> | Terpenoids | Di-acetyl cembranoid derivative (3) | Antiproliferative | [821] |
| Anthozoa/Octocorallia | <i>Litophyton arboreum</i> | Terpenoids | (3a,6a-epidioxyhimachal-1-ene (1) | Antiproliferative | [821] |
| Anthozoa/Octocorallia | <i>Nephtea columnaris</i> | Terpenoids | Columnariols A (1) and B (2) | Cytotoxic towards cancer cells | [822] |
| Anthozoa/Octocorallia | <i>Plumigorgia terminosclera</i> | Terpenoids | Plumisclerin A (1) | Cytotoxic towards cancer cells | [823] |
| Anthozoa/Octocorallia | <i>Sarcophyton auritum</i> | Terpenoids | N-((2S,3R,4E,6E)-1,3-dihydroxyhenicosa-4,6-dien-2-yl)tridecanamide (1) | Agonistic activity on GABA-A receptors | [824] |
| Anthozoa/Octocorallia | <i>Sarcophyton ehrenbergi</i> | Terpenoids | (+)-2-epi-12-methoxycarbonyl-11E-sarcophine (2) | Antiviral | [825] |
| Anthozoa/Octocorallia | <i>Sarcophyton ehrenbergi</i> | Terpenoids | 3,4-epoxyehrenberoxide A (3), ehrenbergol D (4) and ehrenbergol E (5) | Cytotoxic towards cancer cells | [825] |
| Anthozoa/Octocorallia | <i>Sarcophyton glaucum</i> | Terpenoids | A, β -unsaturated ϵ -lactone, Glaucumolides A (1) and B (2) | Cytotoxic towards cancer cells, anti-inflammatory | [826] |

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| Anthozoa/Octocorallia | <i>Sarcophyton glaucum</i> | Terpenoids | 6-oxo-germacra-4(15),8,11-triene | Cytotoxic towards cancer cells | [827] |
| Anthozoa/Octocorallia | <i>Sarcophyton pauciplicatum</i> | Terpenoids | Sarcophytolides M | Cytotoxic towards cancer cells | [828] |
| Anthozoa/Octocorallia | <i>Sarcophyton trocheliophorum</i> | Terpenoids | Sarcotrocheliol (2) | Antibacterial | [829] |
| Anthozoa/Octocorallia | <i>Sinularia flexibilis</i> | Terpenoids | Flexibilide | Cytotoxic towards cancer cells | [830] |
| Anthozoa/Octocorallia | <i>Sinularia gaweli</i> | Terpenoids | Sinulacembranolide A (4) | Anti-inflammatory | [831] |
| Anthozoa/Octocorallia | <i>Sinularia sandensis</i> | Terpenoids | Sandensone A | Cytotoxic towards cancer cells | [832] |
| Anthozoa/Octocorallia | <i>Sinularia numerosa</i> | Terpenoids | Sinumerolide A (1), 7E-sinumerolide A (2) | Anti-inflammatory | [833] |
| Anthozoa/Octocorallia | <i>Pseudopterogorgia acerosa</i> | Terpenoids | 15-chlorodeoxypseudopterolide (1) | Cytotoxic towards cancer cells | [834] |
| Anthozoa/Octocorallia | <i>Sinularia sandensis</i> and <i>Sinularia flexibilis</i> | Terpenoids | Isosinulaflexiolide K (9) | Anti-inflammatory | [835] |
| Anthozoa/Octocorallia | <i>Subergorgia suberosa</i> | Terpenoids | Epoxybergorgic acid | Antimicrobial | [836] |
| Anthozoa/Octocorallia | <i>Xenia sp.</i> | Terpenoids | Xenicanes | Cytotoxic towards cancer cells, anti-inflammatory | [837] |
| Anthozoa/Octocorallia | <i>Cladiella hirsuta</i> | Terpenoids | Hirsutocospiro A (1) | Anti-inflammatory activity | [838] |
| Anthozoa/Octocorallia | <i>Sarcophyton crassocaule</i> | Terpenoids | Sarcocrassocolides A–E (1–5), cembranoids (6–8) | Cytotoxic activity, Anti-inflammatory | [839] |

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| Anthozoa/Octocorallia | <i>Sarcophyton ehrenbergi</i> | Terpenoids | Cembranoids (1), lobophynin C (2), ehrenberoxides A-C (4-6) | Antiviral activity towards human cytomegalovirus | [840] |
| Anthozoa/Octocorallia | <i>Briareum sp.</i> | Terpenoids | Briarenolides ZI–ZVI | Pro-inflammatory | [841] |
| Anthozoa/Octocorallia | <i>Briareum sp.</i> | Terpenoids | Briarenolides M-T | Pro-inflammatory | [842] |
| Anthozoa/Octocorallia | <i>Cladiella tuberculosa</i> | Terpenoids | Cladieunicellins R and S, | Cytotoxic towards cancer cells | [843] |
| Anthozoa/Octocorallia | <i>Sarcophyton infundibuliforme</i> | Terpenoids | Sarcolactone A (1) | Antifouling activity | [844] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Terpenoids | Gemmacolides AZ–BF | Cytotoxic towards cancer cells, antibacterial | [591] |
| Anthozoa/Octocorallia | <i>Eunicea succinea</i> | Terpenoids | Uprolide N, O, P | Anti-inflammatory | [845] |
| Anthozoa/Octocorallia | <i>Gersemia fruticosa</i> | Terpenoids | Gersemiols A–C | Antibacterial | [846] |
| Anthozoa/Octocorallia | <i>Gersemia fruticosa</i> | Terpenoids | Eunicellol A | Antibacterial | [846] |
| Anthozoa/Octocorallia | <i>Heteroxenia ghardaqensis</i> | Terpenoids | 2S,3R-4E,8E-2-(hexadecanoylamino)-docosa-4,8-diene-1,3-diol | Cytotoxic towards cancer cells | [847] |
| Anthozoa/Octocorallia | <i>Klyxum molle</i> | Terpenoids | Klymollins Y and Z | Cytotoxic towards cancer cells, anti-inflammatory | [848] |
| Anthozoa/Octocorallia | <i>Klyxum molle</i> | Terpenoids | Klyxumollins A-D | Cytotoxic towards cancer cells, anti-inflammatory | [848] |
| Anthozoa/Octocorallia | <i>Lobophytum crassum</i> | Terpenoids | Locrassumins A–G; (–)-laevigatol B; (–)-isosarcophine; (–)-7R,8S-dihydroxydeepoxysarcophytoxide | Anti-inflammatory | [849] |

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| Anthozoa/Octocorallia | <i>Lobophytum sp</i> | Terpenoids | Casbane-type diterpenoid 1, diterpenoids 2, 3 | Cytotoxic towards cancer cells, [850] antibacterial, anti-inflammatory |
| Anthozoa/Octocorallia | <i>Menella sp.</i> | Terpenoids | Menecubebane B | Cytotoxic towards cancer cells [851] |
| Anthozoa/Octocorallia | <i>Nephthea sp.</i> | Terpenoids | 10-hydroxy-nephtthenol acetate | Cytotoxic towards cancer cells, [852] antibacterial |
| Anthozoa/Octocorallia | <i>Nephthea sp.</i> | Terpenoids | 7,8-epoxy-10-hydroxy-nephtthenol acetate | Cytotoxic towards cancer cells, [852] antibacterial |
| Anthozoa/Octocorallia | <i>Nephthea sp.</i> | Terpenoids | 6-acetoxy- 7,8-epoxy-10-hydroxy-nephtthenol acetate | Cytotoxic towards cancer cells, [852] antibacterial |
| Anthozoa/Octocorallia | <i>Pseudopterogogia rigida</i> | Terpenoids | Bisabolanes (1, 2, 9-11, 13 and 14), | Inhibitory activity towards [853] CDC25 phosphatases, |
| Anthozoa/Octocorallia | <i>Pseudopterogogia rigida</i> | Terpenoids | Cadinanes (15-20) | Inhibitory activity towards [853] CDC25 phosphatases |
| Anthozoa/Octocorallia | <i>Simularia capillosa</i> | Terpenoids | Capilloquinone (1), capillobenzopyranol (2) and capillobenzofuranol (3),apillofuranocarboxylate (4) | Cytotoxic towards cancer cells [854] |
| Anthozoa/Octocorallia | <i>Sarcophyton sp</i> | Terpenoids | 16-hydroxycembra-1,3,7,11-tetraene | Antibacterial [855] |
| Anthozoa/Octocorallia | <i>Sarcophyton trocheliophorum</i> | Terpenoids | Sarcotrocheldiol A - B | Antimicrobial [856] |
| Anthozoa/Octocorallia | <i>Sarcophyton trocheliophorum</i> | Terpenoids | Trocheliane | Antimicrobial [856] |
| Anthozoa/Octocorallia | <i>Simularia erecta.</i> | Terpenoids | Cembranoid sinulerectadione | Antiproliferative [857] |
| Anthozoa/Octocorallia | <i>Simularia erecta.</i> | Terpenoids | Norcembranoids sinulerectols A and B | Anti-inflammatory [857] |
| Anthozoa/Octocorallia | <i>Simularia erecta.</i> | Terpenoids | Cembranoid sinulerectol C | Antiproliferative [857] |

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| Anthozoa/Octocorallia | <i>Sinularia inelegans</i> | Terpenoids | Pambanolides A-C; 4,5-secosinulochmodin C | Cytotoxic towards cancer cells | [858] |
| Anthozoa/Octocorallia | <i>Sinularia mollis</i> | Terpenoids | Mollisolactones A and B | Cytotoxic towards cancer cells, antiviral | [859] |
| Anthozoa/Octocorallia | <i>Sinularia sp</i> | Terpenoids | Endoperoxide (1) and hydroperoxides (2, 3) | Antibacterial | [860] |
| Anthozoa/Octocorallia | <i>Sinularia sp</i> | Terpenoids | Prenyl- α -elemenone and ent-prenyl- β -elemene | Antibacterial | [861] |
| Anthozoa/Octocorallia | <i>Sinularia sp.</i> | Terpenoids | Peroxy sesquiterpenoids | Cytotoxic towards cancer cells | [862] |
| Anthozoa/Octocorallia | <i>Subergorgia suberosa</i> | Terpenoids | Suberosoid | Cytotoxic towards cancer cells | [863] |
| Anthozoa/Octocorallia | <i>Sinularia depressa</i> | Terpenoids | Depressin (5-13) | Cytotoxic towards cancer cells | [864] |
| Anthozoa/Octocorallia | <i>Clavularia viridis</i> | Terpenoids | Clavuridins A and B | Cytotoxic towards cancer cells | [865] |
| Anthozoa/Octocorallia | <i>Sinularia flexibilis</i> | Terpenoids | Thioflexibilolide A (1) | Anti-inflammatory, Neuroprotective | [866] |
| Anthozoa/Octocorallia | <i>Sinularia gyrosa</i> | Terpenoids | Gyrosanols A-C (1-3) | Cytotoxic towards cancer cells | [867] |
| Anthozoa/Octocorallia | <i>Xenia umbellata</i> | Terpenoids | Xeniumbellal | Cytotoxic towards cancer cells, antimicrobial | [671] |
| Anthozoa/Octocorallia | <i>Briareum excavatum</i> | Terpenoids | Briarenol B | Pro-inflammatory | [868] |
| Anthozoa/Octocorallia | <i>Sarcophyton elegans</i> | Terpenoids | Sarelengans A and B (1 and 2), | Inhibitory effects on the NO production in LPS-induced macrophages | [868] |
| Anthozoa/Octocorallia | <i>Briareum excavatum</i> | Terpenoids | Briarenols C–E | Pro-inflammatory | [869] |

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| Anthozoa/Octocorallia | <i>Capnella fungiformis</i> | Terpenoids | Ethyl 5-[(1E,5Z)-2,6-dimethylocta-1,5,7-trienyl]furan-3-carboxylate (6) | Anti-parasite | [870] |
| Anthozoa/Octocorallia | <i>Capnella fungiformis</i> | Terpenoids | Oxyfungiformin (9a) | Anti-parasite | [870] |
| Anthozoa/Octocorallia | <i>Sarcophyton stellatum</i> | Terpenoids | (1E,3E,11E)-7,8-epoxycembra-1,3,11,15-tetraene (2) | Anti-parasite | [870] |
| Anthozoa/Octocorallia | <i>Cespitularia stolonifera</i> | Terpenoids | 2S, 3R-4E, 8E-2-(heptadecanoylamino)-heptadeca-4,8-diene-1, 3-diol (1) | Cytotoxic towards cancer cells | [871] |
| Anthozoa/Octocorallia | <i>Euplexaura sp.</i> | Terpenoids | Euplexaurenes A–C (1–3) | Cytotoxic towards cancer cells | [872] |
| Anthozoa/Octocorallia | <i>Junceella fragilis</i> | Terpenoids | Briarane diterpenoids fragilolides B–Q (2–17) | Antiviral | [873] |
| Anthozoa/Octocorallia | <i>Junceella fragilis</i> | Terpenoids | Frajunolide H | Cytotoxic towards cancer cells | [873] |
| Anthozoa/Octocorallia | <i>Junceella fragilis</i> | Terpenoids | | Anti-inflammatory | [874] |
| Anthozoa/Octocorallia | <i>Klyxum flaccidum</i> | Terpenoids | Klyflaccicembranols A–I (1–9) | Cytotoxic towards cancer cells, anti-inflammatory | [875] |
| Anthozoa/Octocorallia | <i>Sinularia gyrosa</i> | Terpenoids | Gyrosanolides A–F (1–6), gyrosanin A (7) | Anti-inflammatory | [876] |
| Anthozoa/Octocorallia | <i>Lobophytum crassum</i> | Terpenoids | Lobophylide A (1) and B (2), | Anti-inflammatory | [877] |
| Anthozoa/Octocorallia | <i>Lobophytum varium</i> | Terpenoids | Diterpenoids (6–12) | Anti-inflammatory | [878] |
| Anthozoa/Octocorallia | <i>Lobophytum varium</i> | Terpenoids | Lobovarols A–D (1–4) | Anti-inflammatory | [878] |
| Anthozoa/Octocorallia | <i>Lobophytum varium</i> | Terpenoids | Lobovarol E (5) | Anti-inflammatory | [878] |
| Anthozoa/Octocorallia | <i>Muriceides collaris</i> | Terpenoids | Bis-sesquiterpene muriceidone A (4) | Cytotoxic towards cancer cells | [879] |

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| Anthozoa/Octocorallia | <i>Nephthea chabroli</i> <i>Paralemnalia thyrsoides</i> | Terpenoids | Parathyrsoidins E-G (2-4) | Cytotoxic towards cancer cells | [880] |
| Anthozoa/Octocorallia | <i>Nephthea chabroli</i> <i>Paralemnalia thyrsoides</i> | Terpenoids | Chabrolin A | Cytotoxic towards cancer cells | [880] |
| Anthozoa/Octocorallia | <i>Sarcophyton ehrenbergi</i> | Terpenoids | Sarcoehrenbergilid A–C (1–3), | Anti-proliferation | [881] |
| Anthozoa/Octocorallia | <i>Sarcophyton glaucum</i> | Terpenoids | 10(14)-aromadendrene (1), sarcophinediol (2), ent-deoxysarcophine (3) and sarcotrocheliol acetate (4). | Cytotoxic towards cancer cells | [882] |
| Anthozoa/Octocorallia | <i>Sarcophyton glaucum</i> | Terpenoids | 3,4,8,16-tetra-epi-lobocrasol, 1,15 -epoxy-deoxysarcophine, 3,4-dihydro-4,7,8 -trihydroxy-D2-sarcophine, ent-sarcophylide E, 16-deacetylhalicrasterol B | Cytotoxic towards cancer cells | [883] |
| Anthozoa/Octocorallia | <i>Sinularia flexibilis</i> | Terpenoids | Epoxyembrane A (1), sinularin (2), sinulariolide (3), (1R,13S,12S,9S,8R,5S,4R)-9-acetoxy-5,8:12,13-diepoxyembr-15(17)-en-16,4-olide (4), 11-dehydrosinulariolide (5), ()14-deoxycrassin (6) and dihydrosinularin (7). | Antifouling | [884] |
| Anthozoa/Octocorallia | <i>Sinularia polydactyla</i> | Terpenoids | Xishacorenes A–C | Cona-induced T lymphocyte proliferation | [885] |
| Anthozoa/Octocorallia | <i>Sinularia leptoclados</i> | Terpenoids | Leptocladolins A and B (1 and 2) | Anti-inflammatory | [886] |
| Anthozoa/Octocorallia | <i>Protodendron repens</i> | Terpenoids | Protoxeniciens A -B | Cytotoxic towards cancer cells | [887] |

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| Anthozoa/Octocorallia | <i>Junceella fragilis</i> | Terpenoids | Briaranes : fragilides K, L | anti-inflammatory activity | [888] |
| Anthozoa/Octocorallia | <i>leptogorgia sp.</i> | Terpenoids | Two chloro-furanocembranolides (1, 2), two 1,4-diketo cembranolides (3, 4) and a seco-furanocembranolide (5) | anti-diabete | [889] |
| Anthozoa/Octocorallia | <i>Sarcophyton infundibuliforme</i> | Terpenoids | Nitrogenous diterpenoids: sarinacetamides A (1) and B (2) | induce lymphocyte proliferation | [890] |
| Anthozoa/Octocorallia | <i>Sarcophyton glaucom</i> | Terpenoids | Sarcophinone (2a), 8-epi-sarcophinone (2b), 7 α ,8 β -dihydroxydeepoxysarcophine (3), sinumaximol G (4), (+)-sarcophine (5), sesquiterpene; prostantherol (6), sterol | potent–moderate cytotoxicity | [891] |
| Anthozoa/Octocorallia | <i>Sarcophyton cherbonnieri</i> | Terpenoids | Cherbonolides A-E and bischerbolide peroxide | anti-inflammatory activity | [892] |
| Anthozoa/Octocorallia | <i>Sarcophyton mililatensis</i> | Terpenoids | Sarcomililatin A | potential anti-inflammatory and anti-cancer activity | [893] |
| Anthozoa/Octocorallia | <i>Cladiella krempfi</i> | Terpenoids | 8-n-butyryl-litophynol A, 6-keto-litophynol B and 6-epi-litophynol B | moderate anti-inflammatory activity | [894] |
| Anthozoa/Octocorallia | <i>Sinularia sp</i> | Terpenoids | Sinuketol, sinulins A, B, | sinbuketal: mild anti malarial activity | [895] |
| Anthozoa/Octocorallia | <i>Sinularia sp</i> | Terpenoids | Sinulins C,D | sinulin D: mild target inhibitory activity against PTP1B | [895] |
| Anthozoa/Octocorallia | <i>Echinogorgia pseudossapo</i> | Terpenoids | 3 β -methoxyguaian-10(14)-en-2 β -ol (7) | Antifouling | [592] |
| Anthozoa/Octocorallia | <i>Sinularia sp</i> | Terpenoids | Sinularolide | potential anti-inflammatory activity | [896] |

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| Anthozoa/Octocorallia | <i>Sinularia flexibilis</i> | Terpenoids | Flexibilisins D and E, secoflexibilisolides A and B and flexibilisolide H | Anti-inflammatory | [897] |
| Anthozoa/Octocorallia | <i>Sinularia erecta</i> | Terpenoids | 3 β ,5 α -dihydroxyeudesma-4(15),11-diene (1) | cytotoxicity | [898] |
| Anthozoa/Octocorallia | <i>Sinularia cf. molesta</i> | Terpenoids | Molestin E | cytotoxic activity | [899] |
| Anthozoa/Octocorallia | <i>Sinularia cf. molesta</i> | Terpenoids | Molestin C, D | inhibitory activity against protein tyrosine phosphatase 1B (PTP1B) | [899] |
| Anthozoa/Octocorallia | <i>Sinularia polydactyla</i> | Terpenoids | Sinupol | inhibitory activity against protein tyrosine phosphatase 1B (PTP1B) | [900] |
| Anthozoa/Octocorallia | <i>Sinularia polydactyla</i> | Terpenoids | Sinulacetate | inhibitory activity against protein tyrosine phosphatase 1B (PTP1B) | [900] |
| Anthozoa/Octocorallia | <i>Briareum violaceum</i> | Terpenoids | Briaviolides K-N | potential* anti-inflammatory | [901] |
| Anthozoa/Octocorallia | <i>Clavularia viridis</i> | Terpenoids | Dolabellane diterpene | cytotoxicity to cancer cell lines | [608] |
| Anthozoa/Octocorallia | <i>Litophyton arboreum</i> | Terpenoids | Litopharbol | antibacterial activity | [902] |
| Anthozoa/Octocorallia | <i>Dendronephthya gigantea</i> | Terpenoids | Stigmast-5-en-3-ol | antiproliferative effects on HL-60 (leukemia) and MCF-7 (breast cancer) | [903] |
| Anthozoa/Octocorallia | <i>Clavularia viridis</i> | Terpenoids | Isobromolaureniso | NF- κ B inhibition | [904] |
| Anthozoa/Octocorallia | <i>Clavularia viridis</i> | Terpenoids | Clalaurenol A | NF- κ B inhibition | [904] |
| Anthozoa/Octocorallia | <i>Clavularia viridis/Lemnalia flava</i> | Terpenoids | Clalaurenol B | NF- κ B inhibition | [904] |
| Anthozoa/Octocorallia | <i>Clavularia koellikeri</i> | Terpenoids | Clavukoellians A-F | Anti-angiogenic | [905] |

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| Anthozoa/Octocorallia | <i>Clavularia koellikeri</i> | Terpenoids | 4-O-deacetylparalemnolin D | Anti-angiogenic | [905] |
| Anthozoa/Octocorallia | <i>Briareum violaceum</i> | Terpenoids | Briaviodiols B, D, E | Anti-inflammatory | [906] |
| Anthozoa/Octocorallia | <i>Briareum violaceum</i> | Terpenoids | Briaviotriols A-B | Anti-inflammatory | [907] |
| Anthozoa/Octocorallia | <i>Klyxum flaccidum</i> | Terpenoids | Flaccidenols A-B | Cytotoxic against human cancer cells | [908] |
| Anthozoa/Octocorallia | <i>Lobophytum sp.</i> | Terpenoids | Cembranolides | Cytotoxic against human cancer cells | [677] |
| Anthozoa/Octocorallia | <i>Nephthea sp.</i> | Terpenoids | Nephthecrassocolides A | Anti-fungal | [909] |
| Anthozoa/Octocorallia | <i>Pseudoplexaura flagellosa</i> | Terpenoids | Asperdiol stereoisomer | Cytotoxic against human cancer cells | [910] |
| Anthozoa/Octocorallia | <i>Sarcophyton sp.</i> | Terpenoids | Sarcophytonolide V | Anti-fungal | [911] |
| Anthozoa/Octocorallia | <i>Sarcophyton sp.</i> | Terpenoids | Sarcophine-like | Cytotoxic against human cancer cells | [912] |
| Anthozoa/Octocorallia | <i>Sarcophyton ehrenbergi</i> | Terpenoids | Sarcoehrenolide A,B,D | Anti-Inflammatory | [913] |
| Anthozoa/Octocorallia | <i>Sarcophyton mililatensis</i> | Terpenoids | Sarcomililate A | Immunosuppressive | [914] |
| Anthozoa/Octocorallia | <i>Sinularia sp.</i> | Terpenoids | 2 cembranoid-type diterpenoids | Anti-A β aggregation | [915] |
| Anthozoa/Octocorallia | <i>Sinularia flexibilis</i> | Terpenoids | Xidaosinularides A | Anti-Inflammatory | [916] |
| Anthozoa/Octocorallia | <i>Sinularia flexibilis</i> | Terpenoids | Sinulaflexiolide P | Anti-fungal | [917] |

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| Anthozoa/Octocorallia | <i>Sinularia scabra</i> | Terpenoids | Xiguscabrates B | Immunosuppressive | [918] |
| Anthozoa/Octocorallia | <i>Sinularia scabra</i> | Terpenoids | Xiguscabrols A and B | Immunosuppressive | [918] |
| Anthozoa/Octocorallia | <i>Sinularia scabra</i> | Terpenoids | 8-epi-xiguscabrol B | Immunosuppressive | [918] |
| Anthozoa/Octocorallia | <i>Sarcophyton trocheliophorum</i> | Terpenoids | Bistrochelides B and C | Immunomodulatory | [919] |
| Anthozoa/Octocorallia | <i>Anthoptilum grandifloru</i> | Terpenoids | Bathyptilone A | Cytotoxic against human cancer cells | [920] |
| Anthozoa/Octocorallia | <i>Briareum violaceum</i> | Terpenoids | Briaviolide S | Anti-Inflammatory | [921] |
| Anthozoa/Octocorallia | <i>Briareum violaceum</i> | Terpenoids | Briaviolide V | Anti-Inflammatory | [921] |
| Anthozoa/Octocorallia | <i>Junceella fragilis</i> | Terpenoids | Fragilide S | Anti-Inflammatory | [922] |
| Anthozoa/Octocorallia | <i>Junceella fragilis</i> | Terpenoids | Fragilide W | Anti-Inflammatory | [923] |
| Anthozoa/Octocorallia | <i>Cladiella sp.</i> | Terpenoids | Cladieunicellin U | Anti-Inflammatory | [924] |
| Anthozoa/Octocorallia | <i>Cladiella sp.</i> | Terpenoids | Cladieunicellin X | Anti-Inflammatory | [925] |
| Anthozoa/Octocorallia | <i>Klyxum flaccidum</i> | Terpenoids | Klyflaccilide A | Anti-Inflammatory | [926] |
| Anthozoa/Octocorallia | <i>Xenia sp.</i> | Terpenoids | 12-epi-9-deacetoxyxenicin | Cytotoxic against human cancer cells | [927] |
| Anthozoa/Octocorallia | <i>Subergorgia suberosa</i> | Terpenoids | Subergorgic acid | Antifouling | [928] |
| Anthozoa/Octocorallia | <i>Sinularia gibberosa</i> | Terpenoids | Flaccidoxide-13-acetate | Cytotoxic against human cancer cells | [929] |

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| Anthozoa/Octocorallia | <i>Asterospicularia laurae</i> | Terpenoids | Asterolaurins K–M(1–3) | Cytotoxic towards cancer cells | [930] |
| Anthozoa/Octocorallia | <i>Briareum asbestinum</i> | Terpenoids | Briareolate esters L– N (1-3) | Antiproliferative | [931] |
| Anthozoa/Octocorallia | <i>Briareum sp.</i> | Terpenoids | Brialalepolides A (1), B (2), and C (3) | Cytotoxic towards cancer cells | [932] |
| Anthozoa/Octocorallia | <i>Cladiella krempfi</i> | Terpenoids | Krempfielins A–D (1–4) | Anti-inflammatory | [933] |
| Anthozoa/Octocorallia | <i>Cladiella sp.</i> | Terpenoids | Cladielloides C (1) and D (2) | Cytotoxic towards cancer cells, Anti-inflammatory | [934] |
| Anthozoa/Octocorallia | <i>Cladiella sp.</i> | Terpenoids | Cladieunicellin F (1), (–)-solenopodin C (2) | Anti-inflammatory | [935] |
| Anthozoa/Octocorallia | <i>Cladiella sp.</i> | Terpenoids | Cladieunicellins A–E (1–5) | Cytotoxic towards cancer cells, anti-inflammatory | [936] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Terpenoids | Gemmacolides N–S (1–6) | Cytotoxic towards cancer cells, antimicrobial | [937] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Terpenoids | Gemmacolides G–M (1–7) | Cytotoxic towards cancer cells, antimicrobial | [938] |
| Anthozoa/Octocorallia | <i>Cladiella krempfi</i> | Terpenoids | Oxylitophynol (5), litophynol A acetate (6), litophynol C (8) | Cytotoxic towards cancer cells | [939] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Terpenoids | Dichotellides A - E (1-5) | Cytotoxic towards cancer cells | [939] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Terpenoids | Dichotellates A (1) | Antifouling | [940] |
| Anthozoa/Octocorallia | <i>Dichotella gemmacea</i> | Terpenoids | Dichotellates B (2) | Anti-fouling | [940] |
| Anthozoa/Octocorallia | <i>Eunicea fusca</i> | Terpenoids | Fuscocide E | Anti-inflammatory and antifouling activity | [941] |

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| Anthozoa/Octocorallia | <i>Eunicea sp.</i> | Terpenoids | Cembradiene diterpenoid 1 | Antiplasmodial | [942] |
| Anthozoa/Octocorallia | <i>Junceella fragilis</i> | Terpenoids | Frajunolides L–O (1–4) | Anti-inflammatory | [943] |
| Anthozoa/Octocorallia | <i>Junceella juncea</i> | Terpenoids | 8-hydroxy briarane diterpenoid (compound 1) | Antifungal activity | [944] |
| Anthozoa/Octocorallia | <i>Klyxum molle</i> | Terpenoids | Klymollins A–H (1–8) | Anti-inflammatory | [945] |
| Anthozoa/Octocorallia | <i>Klyxum simplex</i> | Terpenoids | Klysimplexins I–T (1–12) | Anti-inflammatory | [946] |
| Anthozoa/Octocorallia | <i>Klyxum simplex.</i> | Terpenoids | Simplexins J–O (1–6) | Anti-inflammatory | [947] |
| Anthozoa/Octocorallia | <i>Lemmalia flava</i> | Terpenoids | Flavalins A–D (1–4) | Anti-inflammatory, neuroprotective | [948] |
| Anthozoa/Octocorallia | <i>Lobophytum compactum</i> | Terpenoids | Lobocompactols A (1) and B (2) | Cytotoxic towards cancer cells | [949] |
| Anthozoa/Octocorallia | <i>Lobophytum crassum</i> | Terpenoids | Lobocrassins A–E (1–5), | Cytotoxic towards cancer cells, anti-inflammatory | [950] |
| Anthozoa/Octocorallia | <i>Lobophytum crassum</i> | Terpenoids | 13-acetoxysarcophytoxide (4) | Cytotoxic towards cancer cells, anti-inflammatory | [951] |
| Anthozoa/Octocorallia | <i>Lobophytum crassum</i> | Terpenoids | Culobophylins A–C (1–3) | Cytotoxic towards cancer cells | [952] |
| Anthozoa/Octocorallia | <i>Lobophytum cristatum Tixier-Durivault</i> | Terpenoids | Lobophytumins C and D (3 and 4) | Cytotoxic towards cancer cells | [953] |
| Anthozoa/Octocorallia | <i>Lobophytum durum</i> | Terpenoids | Durumolides M–Q (1–5) | Cytotoxic towards cancer cells | [954] |
| Anthozoa/Octocorallia | <i>Lobophytum durum</i> | Terpenoids | Durumolides M–Q (1–5) | Antiviral | [954] |

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|-----------------------|----------------------------------|------------|--|--------------------------------|-------|
| Anthozoa/Octocorallia | <i>Lobophytum laevigatum</i> | Terpenoids | Laevigatol A–D (1–4) | Anti-inflammatory | [955] |
| Anthozoa/Octocorallia | <i>Lobophytum pauciflorum</i> | Terpenoids | Lobophytone U–Z ₁ (1–7) | Anti-inflammatory | [956] |
| Anthozoa/Octocorallia | <i>Lobophytum pauciflorum</i> | Terpenoids | Lobophytone U–Z ₁ (1–7) | Antimicrobial | [956] |
| Anthozoa/Octocorallia | <i>Menella sp.</i> | Terpenoids | Menelloide D (2) | Anti-inflammatory | [957] |
| Anthozoa/Octocorallia | <i>Menella sp.</i> | Terpenoids | Menelloide C (1) | Antiinflammatory | [957] |
| Anthozoa/Octocorallia | <i>Menella sp.</i> | Terpenoids | Menelloide B (2) | Anti-inflammatory | [958] |
| Anthozoa/Octocorallia | <i>Menella sp.</i> | Terpenoids | Menelloide A (1) | Antiinflammatory | [958] |
| Anthozoa/Octocorallia | <i>Menella sp.</i> | Terpenoids | (p)-chloranthalactone B (3) | Anti-oxidative | [958] |
| Anthozoa/Octocorallia | <i>Menella (Plexauridae) sp.</i> | Terpenoids | (-)-Hydroxylindestrenolide (1) | Anti-inflammatory | [959] |
| Anthozoa/Octocorallia | <i>Paralemnalia thyrsoides</i> | Terpenoids | Paralemnolins Q–U (1–5) | Neuroprotective | [960] |
| Anthozoa/Octocorallia | <i>Pseudoplexaura flagellosa</i> | Terpenoids | Cembrenoid 2, cembrenoid 4, cembrenoid 6 | Antifouling, antibacterial | [961] |
| Anthozoa/Octocorallia | <i>Rumphella antipathies</i> | Terpenoids | Rumphellclovane B (1) | Anti-inflammatory | [962] |
| Anthozoa/Octocorallia | <i>Sarcophyton crassaule</i> | Terpenoids | Crassocolide N (1), crassocolide O (2), crassocolide P (3) | Cytotoxic towards cancer cells | [963] |
| Anthozoa/Octocorallia | <i>Sinularia crassa</i> | Terpenoids | Crassarines A–H (1–8) | Anti-inflammatory | [964] |

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|-----------------------|--|----------------------------------|---|--------------------------------------|--------|
| Anthozoa/Octocorallia | <i>Sinularia rigida</i> | Terpenoids | Sinulariols A - S (1 - 19) | Cytotoxic towards cancer cells | [965] |
| Anthozoa/Octocorallia | <i>Sinularia rigida</i> | Terpenoids | Sinulariols A - S (1 - 19) | Antimicrobial | [965] |
| Anthozoa/Octocorallia | <i>Sinularia</i> sp. - <i>Indonesian soft coral</i> | Terpenoids | Chloroscabrolides B (4) | Anti-inflammatory | [966] |
| Anthozoa/Octocorallia | <i>Sinularia</i> sp. - <i>Indonesian soft coral</i> | Terpenoids | Prescabrolide (5) | Anti-inflammatory | [966] |
| Anthozoa/Octocorallia | <i>Sinularia</i> sp. - <i>Indonesian soft coral</i> | Terpenoids | Chloroscabrolides A (3) | Anti-inflammatory | [966] |
| Anthozoa/Octocorallia | <i>Sinularia triangula</i> | Terpenoids | Sinutriangulin A (1) | Cytotoxic towards cancer cells | [967] |
| Anthozoa/Octocorallia | <i>Subergorgia reticulata</i> | Terpenoids | (p)-(7R, 10S)-2,5-dimethoxy calamenene (2) | Antifouling | [968] |
| Anthozoa/Octocorallia | <i>Subergorgia reticulata</i> | Terpenoids | (p)-(7R, 10S)-2-methoxy-5-acetoxy calamenene (3) | Antifouling | [968] |
| Anthozoa/Octocorallia | <i>Acanthoprimnoa cristata</i> | Terpenoids | Cristaxenicin A (1) | Antiprotozoal | [969] |
| Anthozoa/Octocorallia | <i>Lobophytum sarcophytoides</i> | Terpenoids and Lipid derivatives | Lobophytins A and B 4 new prostaglandin B2 derivatives | Anti-Inflammatory | [970] |
| Hydrozoa/Hydroidolina | <i>Macrorhynchia philippina</i> | Alkaloids | Macrophilones B-G | cytotoxicity to cancer cell lines | [971]. |
| Hydrozoa/Hydroidolina | <i>Thuiaria breidfussi</i> | Alkaloids | Breidfussin C-D | Cytotoxic against human cancer cells | [972] |
| Hydrozoa/Hydroidolina | <i>Macrorhynchia philippina</i> | Quinones | Macrophilone A | Cytotoxic towards cancer cells | [973] |
| | <i>n.i. soft coral</i> | Terpenoids | Shagenes A (1) and B (2) | Antiparasite | [974] |

Supplementary Table S3 Molluscs bioactive natural products isolated from 2010 to 2019 (Sorted alphabetically according to Class/Subclass and then to Chemical class of compounds)

| Class/Subclass | Producer species | Chemical Class of compounds | Compound(s) | Activity/toxicity | References |
|---------------------------|-----------------------------------|-----------------------------|---------------------------------------|-------------------------------------|------------|
| Bivalvia/ Autobranchia | <i>Mytilus galloprovincialis</i> | Carotenoids | Carotenoids | Antioxidant | [975] |
| Bivalvia/ Autobranchia | <i>Crassostrea gigas</i> | Peptides | GnRH-related peptides | Neuro-modulatory | [976] |
| Bivalvia/ Autobranchia | <i>Meretrix meretrix</i> | Peptides | Peptides | Antioxidant | [977] |
| Bivalvia/ Autobranchia | <i>Mytilus coruscus</i> | Peptides | Mytilin B | Antibacterial, antiviral | [978,979] |
| Bivalvia/ Autobranchia | <i>Mytilus galloprovincialis</i> | Peptides | Myticalins | Antibacterial | [980] |
| Bivalvia/ Autobranchia | <i>Mytilus edulis</i> | Polyketides | Azaspiracid 7-10 | Cytotoxic against cancer cell lines | [981] |
| Bivalvia/ Autobranchia | <i>Paphia malabarica</i> | Polyketides | Aryl polyketides | Anti-inflammatory | [982] |
| Bivalvia/ Autobranchia | <i>Crassostrea gigas</i> | Polyphenols | 3,5-dihydroxy-4-methoxybenzyl alcohol | Antioxidant | [983] |
| Bivalvia/ Autobranchia | <i>Bathymodiolus thermophilus</i> | Sphingolipids | Bathymodiolamides A | Antiproliferative | [984] |

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|--------------------------------|---|-------------|---|--------------------------------|-------|
| Bivalvia/ Autobranchia | <i>Mytilidae</i> | Steroids | Brassicasterol; 24-Methylenecholesterol | Anti-inflammatory | [985] |
| Bivalvia/ Autobranchia | <i>Villorita cyprinoides</i> | Steroids | several sterols | Anti-inflammatory | [986] |
| Bivalvia/ Autobranchia | <i>Paphia malabarica</i> | Terpenoids | 18 (4 → 14), 19 (4 → 8)-bis-abeo C ₁₉ norditerpenoid | Antioxidant, anti-inflammatory | [987] |
| Bivalvia/ Autobranchia | <i>Villorita cyprinoides</i> | Terpenoids | Isochromenyl meroterpenoids; furano meroterpenoid | Antioxidant, anti-inflammatory | [988] |
| Cephalopoda/ Coleoidea | <i>Amphioctopus neglectus</i> | Polyketides | Macrocyclic lactones | ACE inhibitor | [989] |
| Cephalopoda/ Coleoidea | <i>Sepiella inermis</i> | Terpenoids | 1-(3,4,4a,5,8,8a-Hexahydro-8-methoxy-4-methyl-1H-isochromen-4-ylloxy)-11-hydroxyethyl pentanoate; ethyl 9-(4,4a,5,8-tetrahydro-3-oxo-3H-isochromen-5-yl)hexanoate | Antihyperglycemic | [990] |
| Gastropoda/ Caenogastropoda | <i>Conus genuanus and C. imperialis</i> | Alkaloids | Genuanine | Neuro-modulatory | [991] |
| Gastropoda/ Caenogastropoda | <i>Conus araneosus</i> | Peptides | 14 conotoxins | Neuro-modulatory | [992] |
| Gastropoda/ Caenogastropoda | <i>Conus australis</i> | Peptides | a5/5 conotoxin AusIA | nAChR receptor inhibitor | [993] |
| Gastropoda/ Caenogastropoda | <i>Conus bandanus</i> | Peptides | a4/7-conotoxin, a-BnIA ; BnIIID | Antispasmodic | [994] |
| Gastropoda/ Caenogastropoda | <i>Conus consors</i> | Peptides | m-conotoxin CnIIIC | Analgesic | [995] |

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|--------------------------------|---------------------------------|----------------------|---|--|-------------|
| Gastropoda/ Caenogastropoda | <i>Conus figulinus</i> | Peptides | M-superfamily Fi3a, Fi3b, and Fi3c; T superfamily Fi5a peptides and contryphans fib, fic, and fid | Neuro-modulatory | [996] |
| Gastropoda/ Caenogastropoda | <i>Conus imperialis</i> | Peptides | im23a; im23b | Neuro-modulatory | [997] |
| Gastropoda/ Caenogastropoda | <i>Conus parius</i> | Peptides | M-superfamily and O-superfamily peptides | Neuro-modulatory | [998] |
| Gastropoda/ Caenogastropoda | <i>Conus regius</i> | Peptides | 4/7-conotoxin, RegIIA | Neuro-modulatory | [999] |
| Gastropoda/ Caenogastropoda | <i>Conus spurius</i> | Peptides | Conorfamide-Sr2 | Neuro-modulatory | [1000] |
| Gastropoda/ Caenogastropoda | <i>Conus textile</i> | Peptides | TxVC | Neuro-modulatory | [1001] |
| Gastropoda/ Caenogastropoda | <i>Conus textile</i> | Peptides | a-TxIA | Neuro-modulatory | [1002] |
| Gastropoda/ Caenogastropoda | <i>Conus virgo</i> | Peptides | Conotoxin Vi804 | Neuro-modulatory | [1003] |
| Gastropoda/ Caenogastropoda | <i>Rapana venosa</i> | Proteins | Emocyanin | Antimicrobial | [1004] |
| Gastropoda/ Caenogastropoda | <i>Conus pulicarius</i> | Steroidal Glycosides | Conusaponin A-C | Cytotoxic against cancer cell lines | [1005] |
| Gastropoda/ Heterobranchia | <i>Phidiana militaris</i> | Alkaloids | Phidianidine A and B | Cytotoxic against cancer cell lines, Immunosuppressor, Antifoulant | [1006–1009] |
| Gastropoda/ Heterobranchia | <i>Pleurobranchus forskalii</i> | Alkaloids | Ergosinine | Neuromodulator | [1010] |

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|-------------------------------|---------------------------------|--|------------------------------|---|-------------|
| Gastropoda/ Heterobranchia | <i>Tambja ceutae</i> | Alkaloids | Tambjamine | Antiproliferative (aspecific) | [1011] |
| Gastropoda/ Heterobranchia | <i>Aplysia californica</i> | Aminoacids/ mycosporine-like amino acids | Aplysiapalythine A–C | UV-absorbing | [1012] |
| Gastropoda/ Heterobranchia | <i>Elysia ornata</i> | Depsipeptides | Kahalalide Z1; Kahalalide Z2 | Antifungal; antiproliferative | [1013] |
| Gastropoda/ Heterobranchia | <i>Actinocyclus papillatus</i> | Lipid derivatives | Actisonitrile | Cytotoxic against cancer cell lines (modest) | [1014] |
| Gastropoda/ Heterobranchia | <i>Stylocheilus longicauda</i> | Macrolides | Aplysiatoxin | Antiproliferative | [1015] |
| Gastropoda/ Heterobranchia | <i>Pleurobranchus forskalii</i> | Peptides | Cycloforskamide | Cytotoxic against cancer cell lines | [1010] |
| Gastropoda/ Heterobranchia | <i>Aldisa andersoni</i> | Polyketides | Phorboxazole | Antiproliferative | [1016] |
| Gastropoda/ Heterobranchia | <i>Aplysia kurodai</i> | Polyketides | Aplyronine congeners D–H | Cytotoxic against cancer cell lines | [1017,1018] |
| Gastropoda/ Heterobranchia | <i>Aplysia kurodai</i> | Polyketides | Aplyronine A and C | Cytotoxic against cancer cell lines | [1019] |
| Gastropoda/ Heterobranchia | <i>Onchidium sp.</i> | Polyketides | Ilkonapyrones, onchidione | Cytotoxic against cancer cell lines | [1020,1021] |
| Gastropoda/ Heterobranchia | <i>Scaphander lignarius</i> | Polyketides | Lignarenone | Anti-inflammatory/ Immunomodulatory | [1022,1023] |
| Gastropoda/ Heterobranchia | <i>Aplysia kurodai</i> | Steroids | Aplysiasecosterol A | Cytotoxic against cancer cell lines | [1024] |

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|-------------------------------|---------------------------------|------------|--|--|--------|
| Gastropoda/ Heterobranchia | <i>Dolabrifera dolabrifera</i> | Steroids | 5 α ,8 α -Epidioxycholest-6-en-3 β -ol | Anti-parasitic (anti-Leishmania) | [1025] |
| Gastropoda/ Heterobranchia | <i>Actinocyclus papillatus</i> | Terpenoids | Actinofide | Antiproliferative | [1026] |
| Gastropoda/ Heterobranchia | <i>Aplysia dactylomela</i> | Terpenoids | Dactyloditerpenol acetate | anti-neuroinflammatory | [1027] |
| Gastropoda/ Heterobranchia | <i>Aplysia dactylomela</i> | Terpenoids | Aplysqualenol A | Cytotoxic against cancer cell lines | [1028] |
| Gastropoda/ Heterobranchia | <i>Aplysia oculifera</i> | Terpenoids | Oculiferane and Epi-obtusane | Cytotoxic against cancer cell lines | [1029] |
| Gastropoda/ Heterobranchia | <i>Austrodoris kerguelensis</i> | Terpenoids | Palmadorins | Antiproliferative | [1030] |
| Gastropoda/ Heterobranchia | <i>Cadlina luteomarginata</i> | Terpenoids | Ansellone A | cAMP signaling activation | [1031] |
| Gastropoda/ Heterobranchia | <i>Goniobranchus splendidus</i> | Terpenoids | Gracilins O, P and Q; | Cytotoxic against cancer cell lines | [1032] |
| Gastropoda/ Heterobranchia | <i>Hypselodoris jacksoni</i> | Terpenoids | Dendrolasin-5-acetate | Antibacterial | [1033] |
| Gastropoda/ Heterobranchia | <i>Phyllidia coelestis</i> | Terpenoids | 1-formamido-10(1 \rightarrow 2)- abeopupukeanane | Antiproliferative | [1034] |
| Gastropoda/ Heterobranchia | <i>Phyllidia ocellata</i> | Terpenoids | 2-Isocyanoclovene; 2- Isocyanoclovane; 1- Isothiocyanatoepicaryolane; 4,5- Epi-10-isocyanoisodauc-6-ene;13- Isocyanocubebane | Antiparasite (anti-Plasmodium falciparum) | [1035] |

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|----------------------------------|--|-------------|---|--|--------|
| Gastropoda/ Heterobranchia | <i>Phyllidiella pustulosa</i> | Terpenoids | Pustulosaisonitrile-1 | Antiparasite (anti-Plasmodium falciparum) | [1036] |
| Gastropoda/ Patellogastropoda | <i>Cellana grata</i> and <i>C. toreuma</i> | Steroids | Unsaturated 4-methyl and 4,4- dimethyl sterols | Anti-inflammatory | [1037] |
| Gastropoda/ Vetigastropoda | <i>Monodonta labio</i> | Polyketides | Monodontins A and B | Cytotoxic against cancer cell lines | [1038] |
| Gastropoda/ Vetigastropoda | <i>Scutus antipodes</i> | Polyols | Scutinin A and B | Antibacterial, antifungal | [1039] |

Supplementary Table S4. Echinoderm bioactive natural products isolated from 2010 to 2019. (Sorted alphabetically according to Class/Subclass and then to Chemical class of compounds)

| Class/ Subclass | Producer species | Chemical Class of compounds | Compound(s) | Bioactivity | References |
|-----------------------------------|------------------------------------|---------------------------------------|--|--|------------|
| Asteroidea/ Ambuloas- teroidea | <i>Asterias amurensis</i> | Lipids/ Glycolipid | gangliosides LLG-3 | Apoptosis induction, antiproliferative | [1040] |
| Asteroidea/ Ambuloas- teroidea | <i>Linchia laevigata</i> | Lipids/Glycolipid | gangliosides LLG-3 | neuritogenic activity | [1041] |
| Asteroidea/ Ambuloas- teroidea | <i>Narcissia canar- iensis</i> | Lipids/Glycolipid | peracetylated derivatives | cytotoxic towards cancer cells | [1042] |
| Asteroidea/ Ambuloas- teroidea | <i>Patiria pectinifera</i> | Peptides | cysteine-rich antimicrobial peptide (PpCrAMP) | Antimicrobial | [1043] |
| Asteroidea/ Ambuloas- teroidea | <i>Craspidaster hes- perus</i> | Polyhydroxy steroi- dal glycosides | novaeguinoside A | cytotoxic towards cancer cells | [1044] |
| Asteroidea/ Ambuloas- teroidea | <i>Culcita no- vaeguineae</i> | Polyhydroxy steroi- dal glycosides | culcinosides A–D, echinasteroside C, linckoside F and linckoside L3 | cytotoxic towards cancer cells | [1045] |

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|------------------------------------|--|-----------------------------|---|---|--------|
| Asteroidea/ Ambuloas- terioidea | <i>Anthenea aspera</i> | Polyhydroxylated steroid | Anthenosides A1 and A2 | cytotoxic towards cancer cells, inhibition of cell migration | [1046] |
| Asteroidea/ Ambuloas- terioidea | <i>Asterina pectinifera</i> | Polyhydroxylated steroid | (25S)-5alpha-cholestane-3beta,6alpha,7alpha,8,15alpha,16beta-hexahydroxyl-26-O-14'Z-eicosenoate together with seven known steroid derivatives | cytotoxic towards cancer cells, antiviral | [1047] |
| Asteroidea/ Ambuloas- terioidea | <i>Asteropsis carinifera</i> | Polyhydroxylated steroid | cariniferosides A–F | inhibition of colony formation of cancer cells. | [1048] |
| Asteroidea/ Ambuloas- terioidea | <i>Astropecten polyacanthus</i> | Polyhydroxylated steroid | (20R,24S)-3β,6α,8,15β,24-pentahydroxy-5α-cholestane | cytotoxic toward cancer cells. | [1049] |
| Asteroidea/ Ambuloas- terioidea | <i>Ceramaster patagonicus</i> | Polyhydroxylated steroid | esters of polyhydroxysteroids with long-chain fatty acids | Inhibition of colony formation and migration of cancer cells | [1050] |
| Asteroidea/ Ambuloas- terioidea | <i>Choriaster granulatus</i> | Polyhydroxylated steroid | granulosides D | immunomodulatory activity | [1051] |
| Asteroidea/ Ambuloas- terioidea | <i>Choriaster granulatus</i> | Polyhydroxylated steroid | granulosides D, echinasterosides B and F and laeviuscoloside D | cytotoxic toward cancer cells | [1051] |
| Asteroidea/ Ambuloas- terioidea | <i>Culcita novaeguineae</i> | Polyhydroxylated steroid | | cytotoxic toward cancer cells | [1052] |
| Asteroidea/ Ambuloas- terioidea | <i>Echinaster luzonicus</i> | Polyhydroxylated steroid | luzonicoside | cytotoxic toward cancer cells | [1053] |
| Asteroidea/ Ambuloas- terioidea | <i>Echinaster luzonicus</i> | Polyhydroxylated steroid | luzonicosides B–E | lysosomal activity stimulation, intracellular ROS level elevation, and NO synthesis up-regulation in murine macrophages | [1054] |
| Asteroidea/ Ambuloas- terioidea | <i>Leptasterias hylodes reticulata and</i> | Polyhydroxylated steroid | | antimicrobial | [1055] |

| <i>Culcita novaeguineae</i> | | | | | |
|------------------------------------|--|---|--|---|-------------|
| Asteroidea/ Ambuloas- terioidea | <i>Pentaceraster gra- cilis</i> | Polyhydroxylated steroid | maculatoside | cytotoxic toward cancer cells | [1056] |
| Asteroidea/ Ambuloas- terioidea | <i>Pentaceraster regu- lus</i> | Polyhydroxylated steroid | regulusoside D, (24S)-cholestane- 3 β ,5,6 β ,8,15 α ,24-hexol, granulatoside A, 5 α -cholestane-3 β ,6 β ,7 α ,15 α ,16 β ,26-hexol, 5 α -cholestane-3 β ,6 β ,7 α ,8 β ,15 α ,16 β ,26-hep- tol and 5 α -cholestane-3 β ,6 α ,8,15 α ,16 β ,26- hexol | Immunomodulatory | [1057] |
| Asteroidea/ Ambuloas- terioidea | <i>Acanthaster planci</i> | Polyhydroxylated steroid | plancisides A | antiproliferative | [1058] |
| Asteroidea/ Ambuloas- terioidea | <i>Acanthaster planci</i> | Polyhydroxylated steroid | plancisides B, C | cytotoxic towards cancer cells | [1058] |
| Asteroidea/ Ambuloas- terioidea | <i>Acanthaster planci</i> | Polyhydroxylated steroid | ethanol extract | cytotoxic towards cancer cells, inhibi- tion of colony formation and cell migration | [1059] |
| Asteroidea/ Ambuloas- terioidea | <i>Craspidaster hes- perus</i> | Polyhydroxysteroidal glycosides | hesperuside A, B, C | cytotoxic toward cancer cells | [1044] |
| Asteroidea/ Ambuloas- terioidea | <i>Acanthaster planci</i> | Proteins | plancitoxin I | cytotoxic toward cancer cells, antiproliferative | [1060,1061] |
| Asteroidea/ Ambuloas- terioidea | <i>Astropecten poly- acanthus</i> | Steroid derivatives | polyacanthoside A | cytotoxic toward cancer cells | [1049] |
| Asteroidea/ Ambuloas- terioidea | <i>Leptasterias hylodes reticulata and</i> | Steroidal glycosides- Asterosaponins | hylodoside A and novaeguinoside Y | hemolytic activity | [1055] |

| <i>Culcita novaeguineae</i> | | | | | |
|------------------------------|--------------------------------|---|---|---|--------|
| Asteroidae/ Ambuloasteroidea | <i>Leptasterias ochotensis</i> | Steroidal glycosides- Asterosaponins | leptasteriosides A-F | cytotoxic toward cancer cells | [1062] |
| Asteroidae/ Ambuloasteroidea | <i>Aphelasterias japonica</i> | Steroidal glycosides- Asterosaponins | Aphelasteroside F | Antiproliferative, inhibition of colony formation of cancer cells | [1063] |
| Asteroidae/ Ambuloasteroidea | <i>Archaster typicus</i> | Steroidal glycosides- Asterosaponins | archasterosides A and B and regularoside A | cytotoxic toward cancer cells | [1064] |
| Asteroidae/ Ambuloasteroidea | <i>Asterias microdiscus</i> | Steroidal glycosides- Asterosaponins | thornasteroside A and versicoside A | cytotoxic toward cancer cells | [1065] |
| Asteroidae/ Ambuloasteroidea | <i>Asterina pectinifera</i> | Steroidal glycosides- Asterosaponins | Asterosaponins P1 | cytotoxic toward cancer cells | [1066] |
| Asteroidae/ Ambuloasteroidea | <i>Asteropsis carinifera</i> | Steroidal glycosides- Asterosaponins | asteropsiside A, regularoside A and thornasteroside A | Antiproliferative | [1067] |
| Asteroidae/ Ambuloasteroidea | <i>Asteropsis carinifera</i> | Steroidal glycosides- Asterosaponins | thornasteroside A | cytotoxic toward cancer cells | [1068] |
| Asteroidae/ Ambuloasteroidea | <i>Astropecten monacanthus</i> | Steroidal glycosides- Asterosaponins | astrosteroside D | cytotoxic toward cancer cells | [1069] |
| Asteroidae/ Ambuloasteroidea | <i>Astropecten monacanthus</i> | Steroidal glycosides- Asterosaponins | astrosteroside A and D, marthasteroside B | anti-inflammatory | [1070] |
| Asteroidae/ Ambuloasteroidea | <i>Culcita novaeguineae</i> | Steroidal glycosides- Asterosaponins | novaeguinosides I and II | cytotoxic toward cancer cells | [1071] |
| Asteroidae/ Ambuloasteroidea | <i>Culcita novaeguineae</i> | Steroidal glycosides- Asterosaponins | CN-3 | cytotoxic toward cancer cells, antiproliferative | [1072] |

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|------------------------------|---------------------------------|---|---|---|--------|
| Asteroidae/ Ambuloasteroidea | <i>Diplasterias brucei</i> | Steroidal glycosides- Asterosaponins | diplasteriosides A and B | cytotoxic toward cancer cells | [1073] |
| Asteroidae/ Ambuloasteroidea | <i>Lethasterias fusca</i> | Steroidal glycosides- Asterosaponins | lethasteriosides A | inhibition of colony formation of cancer cells | [1074] |
| Asteroidae/ Ambuloasteroidea | <i>Pentaceraster regulus</i> | Steroidal glycosides- Asterosaponins | pentaregulosides A | cytotoxic toward cancer cells | [1075] |
| Asteroidae/ Ambuloasteroidea | <i>Pentaceraster regulus</i> | Steroidal glycosides- Asterosaponins | pentaregulosides C-E | immunomodulatory activity | [1075] |
| Asteroidae/ Ambuloasteroidea | <i>Acanthaster planci</i> | Steroidal glycosides- Asterosaponins | acanthaglycoside G | inhibition of cell migration and colony formation of cancer cells | [1059] |
| Asteroidae/ Ambuloasteroidea | <i>Acanthaster planci</i> | Steroidal glycosides- Asterosaponins | acanthaglycoside A and maculatoside (or luiidiaglycoside B) | inhibition of cell migration and colony formation of cancer cells | [1059] |
| Asteroidae/ Ambuloasteroidea | <i>Ctenodiscus crispatus</i> | Steroids | (25S)-5 α 5 α -cholestane-3 β 3 β ,5,6 β 6 β ,15 α 15 α ,16 β 16 β ,26-hexaol | cytotoxic toward cancer cells | [1076] |
| Asteroidae/ Ambuloasteroidea | <i>Leptasterias ochotensis</i> | Steroids | asterogenin | cytotoxic toward cancer cells | [1062] |
| Asteroidae/ Ambuloasteroidea | <i>Distolasterias nipon</i> | Steroids | polar steroids | neuritogenic and neuroprotective | [1077] |
| Asteroidae/ Ambuloasteroidea | <i>Patiria pectinifera</i> | Steroids | polar steroids | neuritogenic and neuroprotective activities | [1077] |
| Asteroidae/ Ambuloasteroidea | <i>Astropecten polyacanthus</i> | Sterols | 5 α -cholest-7-ene-3 β ,6 α -diol (5),3) 5 α -cholest-8(14)-ene-3 β ,7 α -diol (6),4) and 5 α -cholest-7,9(11)-diene-3 β -ol | Apoptosis induction in leukemia related cells | [1078] |
| Asteroidae/ Ambuloasteroidea | <i>Leptasterias ochotensis</i> | Sulfated steroid monoglycoside | leptaochotensoside A | inhibition of colony formation of cancer cells | [1079] |

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| Asteroidea/ Ambuloas- terioidea | <i>Leptasterias ochotensis</i> | Sulfated steroid monoglycosides | leptaochotensoside A | inhibition of colony formation of can- cer cells | [1080] |
| Asteroidea/ Ambuloas- terioidea | <i>Solaster pacificus</i> | Triterpene glycosides | cucumariosides C1, C2, and A10 | cytotoxic activity | [1081] |
| Asteroidea/ Ambuloas- terioidea | <i>Solaster pacificus</i> | Triterpene glycosides | pacificusosides C, cucumariosides C2 and A10 | inhibition of colony formation of can- cer cells | [1081] |
| Crinoidea/ Articulata | <i>Comanthus Sp</i> | Anthraquinone deriv- ative | 1'-deoxyrhodoptilometrin (SE11) and (S)- (-)-rhodoptilometrin (SE16) | cytotoxic toward cancer cells, apopto- sis induction | [1082] |
| Crinoidea/ Articulata | <i>Anneissia japonica</i> | Lectin | OXYL | Antibiofilm | [1083] |
| Echinoidea/Euechinoi- dea (sea urchins) | <i>Arbacia Lixula</i> | Carotenoid | Astaxanthin | Antioxidant, anti-neurodegenerative | [1084] |
| Echinoidea/Euechinoid ea (sea urchins) | <i>Toxopneustes pile- olus</i> | Lectins | rhamnose-binding lectin (cloned) | mitogenic, chemotactic, and cytotoxic activities | [1085] |
| Echinoidea/Euechinoi- dea (sea urchins) | <i>Strongylocentrotus purpuratus</i> | Lectins | rhamnose-binding lectin | Apoptosis induction in cancer cells | [1086] |
| Echinoidea/Euechinoid ea (sea urchins) | <i>Strongylocentrotus droebachiensis</i> | Peptide | Centrocin | antimicrobial | [1087] |
| Echinoidea/Euechinoid ea (sea urchins) | <i>Paracentrotus livi- dus</i> | Peptide | antimicrobial peptides | antimicrobial | [1088] |

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| Echinoidea/Euechinoid ea (sea urchins) | <i>Paracentrotus lividus</i> | Peptide | Beta-thymosin fragment | antimicrobial and antibiofilm activity | [1089] |
| Echinoidea/Euechinoid ea (sea urchins) | <i>Paracentrotus lividus</i> | Peptide | Paracentrin 1 | antimicrobial | [1090] |
| Echinoidea/Euechinoid ea (sea cucumbers) | <i>Echinus euculentus</i> | Peptide | Centrocin | antimicrobial | [1091] |
| Echinoidea/Euechinoid ea (sea cucumbers) | <i>Echinus euculentus</i> | Peptide | Strongylocin | antimicrobial | [1091] |
| Echinoidea/Euechinoid ea (sea urchins) | <i>Paracentrotus lividus</i> | Peptide | Derivatives from paracentrin | antimicrobial, antibiofilm | [1092] |
| Echinoidea/Euechinoid ea (sea urchins) | <i>Diadema savignyi</i> | Polyhydroxylated naphthoquinones | Spinochrome | antibacterial, antioxidant, inflammatory and cytotoxic | [1093] |
| Echinoidea/Euechinoid ea (sea urchins) | <i>Echinometra mathaei</i> | Polyhydroxylated naphthoquinones | Spinochrome | antibacterial, antioxidant, inflammatory and cytotoxic | [1093] |
| Echinoidea/Euechinoid ea (sea urchins) | <i>Toxopneustes pileolus</i> | Polyhydroxylated naphthoquinones | Spinochrome | antibacterial, antioxidant, inflammatory and cytotoxic | [1093] |
| Echinoidea/Euechinoid ea | <i>Tripneustes gratilla</i> | Polyhydroxylated naphthoquinones | Spinochrome | antibacterial, antioxidant, inflammatory and cytotoxic | [1093] |

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| (sea urchins) | | | | | | |
| Echinoidea/Euechinoid ea | <i>Strongylocentrotus nudus</i> | Polysaccharide | SEP | | cytotoxic toward cancer cells | [1094] |
| (sea urchins) | | | | | | |
| Echinoidea/Euechinoid ea | <i>Strongylocentrotus nudus</i> | Polysaccharide | SEP | | cytotoxic toward cancer cells | [1095] |
| (sea urchins) | | | | | | |
| Echinoidea/Euechinoid ea | <i>Strongylocentrotus nudus</i> | Polysaccharide | SEP (combined with gemcitabine) | | cytotoxic toward cancer cells | [1096] |
| (sea urchins) | | | | | | |
| Echinoidea/Euechinoid ea | <i>Echinometra lu- cunter</i> | Polysaccharides | sulfated fucans and galactans | | anticoagulant and antithrombotic | [1097] |
| Echinoidea/Euechinoid ea | <i>Echinometra lu- cunter</i> | Polysaccharides | fucan sulfate | | anticoagulant and antithrombotic | [1098] |
| Echinoidea/Euechinoid ea | <i>Lytechinus varie- gatus</i> | Polysaccharides | fucan sulfate | | anticoagulant and antithrombotic | [1098] |
| (sea urchins) | | | | | | |
| Echinoidea/Euechinoid ea | <i>Paracentrotus livi- dus</i> | Thiol | ovothiol | | Antioxidant | [1099] |
| (sea urchins) | | | | | | |
| <i>Echinoidea/sea urchins</i> | n.a. | Polyhydroxylated naphthoquinones | Echinochrome A | | Antioxidant | [1100] |
| <i>Echinoidea/sea urchins</i> | n.a. | Polyhydroxylated naphthoquinones | Echinochrome A | | antioxidant, antimicrobial, anti-inflammatory, and chelating effects | [1101] |

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| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Holothuria edulis</i> | Polysaccharides | fucan sulfate | anticoagulant | [1102] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Apostichopus japonicas</i> | Alkenes | (5Z)-dec-5-en-1-yl sulfate, (3E)-dec-3-en-1-yl sulfate, 2,6-dimethylheptyl sulfate, octyl sulfate and decyl sulfate | cytotoxic toward cancer cells, antibacterial | [1103] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Holothuria polii</i> | Glycoside | Bivittoside | cytotoxic toward cancer cells | [1104] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Apostichopus japonicas</i> | Lectin | fusion alkakine phosphatase-lectin MBL-Aj | | [1105] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Apostichopus japonicas</i> | Lectin | AJCTL | | [1106] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Holothuria grisea</i> | Lectin | HGL agglutinin | anti-inflammatory | [1107] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Holothuria grisea</i> | Lectin | HGL | hemagglutinating/hemolytic activity | [1108] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Cucumaria echinata</i> | Lectin | CEL-III | hemolytic activity | [1109] |
| Holoturoidea/ Actinopoda | <i>Apostichopus japonicas</i> | Lectin | Fucolectin AjFL-1 | binding activities towards bacteria, agglutination <i>P. pastoris</i> | [1110] |

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| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda | <i>Holothuria tubulosa</i> | Low MW peptides | Holothuroidin | antimicrobial | [1111] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda | <i>Holothuria albiventer</i> | Polysaccharides | fucan sulfate | anticoagulant | [1112] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda | <i>Stichopus japonicus</i> | Polysaccharides | immunostimulating protein-sulfated fucan complex | anticoagulant | [1113] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda | <i>Isostichopus baidionotus</i> | Polysaccharides | fucan sulfate | Anticoagulant, antithrombotic | [1114] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda | <i>Stichopus japonicus</i> | Polysaccharides | sulfated fucans | osteoclastogenesis | [1115] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda | <i>Isostichopus baidionotus</i> | Polysaccharides | fucosylated chondroitin sulfate and fucoidans | hypolipidemic | [1116] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda | <i>Isostichopus baidionotus</i> | Polysaccharides | fucan sulfate | hypolipidemic | [1116] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda | <i>Pearsonothuria graeffei</i> | Polysaccharides | fucosylated chondroitin sulfate and fucoidans | hypolipidemic | (Li et al., 2017) |
| (sea cucumbers) | | | | | |

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| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Pearsonothuria graeffei</i> | Polysaccharides | fucan sulfate | hypolipidemic | [1116] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Holothuria Mexicana</i> | Polysaccharides | fucosylated chondroitin sulfate | anticoagulant | [1117] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Cucumaria frondosa</i> | Polysaccharides | fucosylated chondroitin sulfate | anticoagulant | [1118] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Apostichopus japonicas</i> | Polysaccharides | fucan sulfate | anticoagulant | [1102] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Holothuria nobilis</i> | Polysaccharides | fucan sulfate | anticoagulant | [1102] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Holothuria forskali</i> | Polysaccharides | fucosylated chondroitin sulfate | anti-inflammation | [1119] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Holothuria fuscopunctata</i> | Polysaccharides | fucan sulfate | anticoagulant | [1120] |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Stichopus horrens</i> | Polysaccharides | fucan sulfate | anticoagulant | [1120] |

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| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Thelenota ananas</i> | Polysaccharides | fucan sulfate | anticoagulant activities | [1120] |
| Holoturoidea/ Actin- opoda (sea cucumbers) | <i>Stichopus japonicus</i> | Polysaccharides | sulfated fucans | cytotoxicity | [1121] |
| Holoturoidea/ Actin- opoda (sea cucumbers) | <i>Stichopus varie- gatus</i> | Polysaccharides | fucosylated chondroitin sulfates | antitumor | [1122] |
| Holoturoidea/ Actin- opoda (sea cucumbers) | <i>Stichopus horrens</i> | Polysaccharides | fucosylated chondroitin sulfate | anticoagulant | [1123] |
| Holoturoidea/ Actin- opoda (sea cucumbers) | <i>Cucumaria dja- konovi</i> | Polysaccharides | fucosylated chondroitin sulfate | Anti-inflammatory | [1124] |
| Holoturoidea/ Actin- opoda (sea cucumbers) | <i>Apostichopus ja- ponicas</i> | Polysaccharides | glycosyl aminoglycan | immunomodulatory | [1125] |
| Holoturoidea/ Actin- opoda (sea cucumbers) | <i>Holothuria edulis</i> | Polysaccharides | fucosylated chondroitin sulfate | anticoagulant | [1126] |
| Holoturoidea/ Actin- opoda (sea cucumbers) | <i>Ludwigothurea grisea</i> | Polysaccharides | fucosylated chondroitin sulfate | anticoagulant | [1126] |
| Holoturoidea/ Actin- opoda | <i>Holothuria coluber</i> | Polysaccharides | fucan sulfate | anticoagulant | [1127] |

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|---|---------------------------|-----------------|------------------------------------|---|--------|
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Holothuria scabra</i> | Polysaccharides | fucosylated chondroitin sulfate | anticoagulant | [1128] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Cucumaria japonica</i> | Saponins | Cumaside | cytotoxic toward cancer cells | [1129] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Holothuria lesson</i> | Saponins | triterpene glycoside/saponin | cytotoxic toward cancer cells, wound healing, hypolipidemia, pain relieving, anti-hypertension, anti-ageing. | [1130] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Stichopus horrens</i> | Saponins | stichorrenosides A-D | cytotoxic toward cancer cells | [1131] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Cucumaria japonica</i> | Saponins | cucumarioside A2-2 | cytostatic | [1132] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Cucumaria frondosa</i> | Saponins | Frondoside A | cytotoxic toward cancer cells | [1133] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Stichopus horrens</i> | Saponins | stichorrenoside E | cytotoxic toward cancer cells | [1134] |
| (sea cucumbers) | | | | | |
| Holoturoidea/ Actinopoda | <i>Holothuria moebii</i> | Saponins | sulfated and non-sulfated saponins | cytotoxic toward cancer cells | [1135] |

(sea cucumbers)

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| Holoturoidea/ Actinopoda (sea cucumbers) | <i>Stichopodiidae</i> | Saponins | stichoposides, triterpene glycosides | ceramide inducers | [1136] |
|---|-----------------------|----------|--------------------------------------|-------------------|--------|

(sea cucumbers)

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| Holoturoidea/sea cucumbers | n.a. | Glycan | glycosaminoglycan (hGAG), | inhibitor of P-selectin | [1137] |
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Supplementary Table S5

. Tunicates bioactive natural products isolated from 2010 to 2019 (Sorted alphabetically according to Class/Subclass and then to Chemical class of compounds).

| Class/Order | Producer species | Chemical Class of compounds | Compound(s) | Activity/toxicity | References |
|--------------------------|--|-----------------------------|---------------------|--|-------------|
| Asciacea/Aplousobranchia | <i>Didemnidae</i> | Amino alcohol | Siladenoserinols | Cytotoxic against cancer cells (moderate) | [1138] |
| Asciacea/Aplousobranchia | <i>Didemnum sp.</i> | Alkaloids | 3-bromofascaplysin | Cytotoxic against cancer cells (moderate) | [1139,1140] |
| Asciacea/Aplousobranchia | <i>Didemnum ternerratum</i> | Alkaloids | Lamellarin Sulfates | Cytotoxic against cancer cells | [1141] |
| Asciacea/Aplousobranchia | <i>Eudistoma glaucus</i> | Alkaloids | Eudistomidin B, G | Cytotoxic against cancer cells | [1139,1142] |
| Asciacea/Aplousobranchia | <i>Pseudodistoma opacum</i> | Alkaloids | Opacaline B-C | Anti-parasitic (anti- <i>Plasmodium falciparum</i>) | [1139,1143] |
| Asciacea/Aplousobranchia | <i>Diazona formosa</i> | Alkaloids | Tanjungide A-B | Cytotoxic against cancer cells | [1144] |
| Asciacea/Aplousobranchia | <i>Didemnum sp.</i> | Alkaloids | Didemninide A-B | Inhibitor of PLA2 | [1145] |
| Asciacea/Aplousobranchia | <i>Aplidium falklandicum</i> , <i>Aplidium meridianum</i> | Alkaloids | Meridianins | Anti-proliferative; Apoptosis inducer | [1146] |
| Asciacea/Aplousobranchia | <i>Aplidium sp.</i> , <i>Synoicum sp.</i> | Alkaloids | Meridianins | Anti-proliferative; Apoptosis inducer | [1147,1148] |
| Asciacea/Aplousobranchia | <i>Synoicum adareanum</i> | Polyketides | Palmerolide A | Cytotoxic against cancer cells | [1139,1149] |
| Asciacea/Aplousobranchia | <i>Lissoclinum sp.</i> | Polyketides | Mandelalides | Cytotoxic against cancer cells; Antifungal | [1139,1150] |
| Asciacea/Aplousobranchia | <i>Polysyncraton sp.</i> | Polyketides | Mycalamide A | Cytotoxic against cancer cells | [1139,1151] |
| Asciacea/Aplousobranchia | <i>Aplidium elegans</i> | Polyketides | Phosphoeleganin | Enzyme inhibitor (Inhibition of tyrosine phosphatase 1B) | [1139,1152] |

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|--------------------------|---|-----------------------|------------------------------|---------------------------------|-------------|
| Asciacea/Aplousobranchia | <i>Syonicum</i> sp. | Polyketides | Z-rubrolide O, E-rubrolide O | Immunomodulatory | [1139,1153] |
| Asciacea/Aplousobranchia | <i>Aplidium</i> sp., <i>Syonicum</i> sp. | Quinones | Rossinone, Epoxy-rossinone | Cytotoxic against cancer cells | [1147] |
| Asciacea/Phlebobranchia | <i>Ciona intestinalis</i> | Peptides | Antimicrobial peptide | Antimicrobial | [1154–1157] |
| Asciacea/Phlebobranchia | <i>Ciona savignyi</i> | Peptides | CS5931 | Cytotoxic against cancer cells | [1139,1158] |
| Asciacea/Phlebobranchia | <i>Ecteinascidia turbinata</i> | Polyketides | Arenimycin | Antimicrobial | [1139,1159] |
| Asciacea/Phlebobranchia | <i>Ciona savignyi</i> | Proteins-glycoprotein | Chondromodulin-1 | Anti-proliferative; Antioxidant | [1139,1160] |
| Asciacea/Stolidobranchia | <i>Herdmania momus</i> | Alkaloids | Herdmanines A-D | Anti-inflammatory | [1139,1161] |

Supplementary Table S6: Number of MNPs entries for tunicates, molluscs, sponges and echinoderms in metabolite databases searchable by biological source.

| Database | Tunicates | Molluscs | Sponges | Echinoderms | URL |
|----------|-----------|----------|---------|-------------|-----|
|----------|-----------|----------|---------|-------------|-----|

| | | | | | |
|---|-----|-----|------|---|---|
| ChEBI | 10 | 2 | 242 | 0 | https://www.ebi.ac.uk/chebi/ |
| Dictionary of Marine Natural Products* | 212 | 179 | 2491 | 9 | http://dmnp.chemnetbase.com/faces/chemical/ChemicalSearch.xhtml |
| HMDB | 1 | 1 | 0 | 0 | https://hmdb.ca/ |
| KNApSack | 3 | 1 | 2 | 0 | http://www.knapsackfamily.com/KNApSack/ |
| MetaboLights | 0 | 0 | 130 | 0 | https://www.ebi.ac.uk/metabolights/index |
| Norine | 0 | 30 | 27 | 0 | https://bioinfo.lifl.fr/ |
| NPCARE | 0 | 0 | 3 | 5 | http://silver.sejong.ac.kr/npcancer/ |

*Specific information for each compound is not publicly available

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