

[Supplementary Materials]

Table S1. Information on distribution of *Montipora millepora* within the Asian North-Pacific.

Country	Reference	Citation
Japan	DeVantier et al., 2008	DeVantier, L.; Hodgson, G.; Huang, D.; Johan, O.; Licuanan, A.; Obura, D.; Sheppard, C.; Syahrir, M.; Turak, E. <i>Montipora millepora. The IUCN Red List of Threatened Species 2008.</i> doi:10.2305/IUCN.UK.2008.RLTS.T133015A3545567.en
Cambodia	<i>Id.</i>	<i>Id.</i>
China	<i>Id.</i>	<i>Id.</i>
Malaysia	<i>Id.</i>	<i>Id.</i>
Taiwan	<i>Id.</i>	<i>Id.</i>
Philippines	<i>Id.</i>	<i>Id.</i>
Singapore	<i>Id.</i>	<i>Id.</i>
Thailand	<i>Id.</i>	<i>Id.</i>
Vietnam	<i>Id.</i>	<i>Id.</i>
Hong Kong	Chan et al. 2005	Chan A.L.K.; Chan K.K.; Choi C.L.S.; McCorry D.; Lee M.W.; Ang P.J. Field guide to hard corals of Hong Kong. Agriculture, Fisheries and Conservation Department, Government of Hong Kong SAR. 2005.

* *Id.* is Latin for Idem, which means “same”.

Table S2. Information on distribution of *Dendronephthya gigantea* within the Asian North-Pacific.

Longitude [deg min sec]	Latitude [deg min sec]	Locality	Country	Reference	Citation
126°34'03" E	33°13'39" N	Seogwipo, Jeju	Korea	Jeon et al, 2019	Jeon, Y.; Park, S.G.; Lee, N.; Weber, J.A.; Kim, H.-S.; Hwang, S.-J.; Woo, S.; Kim, H.-M.; Bhak, Y.; Jeon, S.; et al. The Draft Genome of an Octocoral, <i>Dendronephthya gigantea</i> . <i>Genome Biology and Evolution</i> 2019, 11, 949–953, doi:10.1093/gbe/evz043
126° 34'E	33° 13'N	Seogwipo, Jeju	Korea	Choi and Kim, 2008	Choi, Y.-W.; Kim, J.H. Mortality and Growth of the Soft Coral, <i>Dendronephthya gigantea</i> in Jejudo Island, Korea. <i>Journal of the Korean Society of Oceanography</i> 2008, 13, 342–347
None given	None given	Munseom, Jeju	Korea	Choi and Kim, 2008	Choi, Y.-W.; Kim, J.H. Mortality and Growth of the Soft Coral, <i>Dendronephthya gigantea</i> in Jejudo Island, Korea. <i>Journal of the Korean Society of Oceanography</i> 2008, 13, 342–347
None given	None given	Munseom, Jeju	Korea	Ko et al., 2008	Ko, J.-C.; Koo, J.-H.; Yang, M.-H. Characteristics of Ocean Environmental Factors and Community Structure of Macrobenthos around Munseom, Jeju Island, Korea. <i>The Korean Journal of Malacology</i> 2008, 24, 215–228

126°33'00" E	33°22'00" N	Munseom, Jeju	Korea	Hwang and Song, 2007	Hwang, S.-J.; Song, J.-I. Reproductive Biology and Larval Development of the Temperate Soft Coral <i>Dendronephthya gigantea</i> (Alcyonacea: Nephtheidae). <i>Mar Biol</i> 2007 , <i>152</i> , 273–284, doi:10.1007/s00227-007-0679-z
None given	None given	Munseom, Jeju	Korea	Park et al., 2010	Park, E.; Kim, B.; Won, Y.-J. The Complete Mitochondrial Genome of <i>Dendronephthya gigantea</i> (Anthozoa: Octocorallia: Nephtheidae). <i>Korean J. Syst. Zool.</i> 2010 , <i>26</i> , 197–201
None given	None given	Munseom, Jeju	Korea	Kang et al., 2005	Kang, D.-H.; Song, J.-I.; Choi, K.-S. Image Analysis of Typhoon Impacts on Soft Coral Community at Munseom in Jeju, Korea. <i>Ocean and Polar Research</i> 2005 , <i>27</i> , 25–34
126°41'9.57"E	33°33'14.69" N	Bukchonseo-gil, Jeju	Korea	Fernando et al., 2017	Fernando, I.P.S.; Sanjeewa, K.K.A.; Kim, H.-S.; Wang, L.; Lee, W.W.; Jeon, Y.-J. Apoptotic and Antiproliferative Properties of 3β-Hydroxy-Δ5-Steroidal Congeners from a Partially Purified Column Fraction of <i>Dendronephthya gigantea</i> against HL-60 and MCF-7 Cancer Cells: Anticancer Activity of Steroids from <i>Dendronephthya gigantea</i> . <i>J Appl Toxicol</i> 2018 , <i>38</i> , 527–536, doi:10.1002/jat.3559

None given	None given	Jeju waters	Korea	Han et al., 2005	Han, A.-R.; Song, J.-I.; Jang, D.S.; Min, H.-Y.; Lee, S.K.; Seo, E.-K. Cytotoxic Constituents of the Octocoral <i>Dendronephthya gigantea</i> . <i>Arch Pharm Res</i> 2005 , <i>28</i> , 290–293
None given	None given	Jeju waters	Korea	Lee, 2017	Lee, S.-H. Developmental Toxicity and Anti-Inflammatory Effect of the Soft Coral <i>Dendronephthya gigantea</i> Collected from Jeju Island in Zebrafish Model. <i>Fish Aquatic Sci</i> 2017 , <i>20</i> , 32, doi:10.1186/s41240-017-0077-5
None given	None given	Jeju waters	Korea	Jayawardena et al., 2022	Jayawardena, T.U.; Fernando, I.P.S.; Nagahawatta, D.P.; Wang, L.; Yang, H.-W.; Oh, J.-Y.; Sanjeewa, K.K.A.; Jeon, Y. Sonication-Assisted Water Extract of <i>Dendronephthya gigantea</i> Exhibits Anti-Fine Dust Effects; Attenuation of MAPK Phosphorylation in Macrophages. <i>J. Natn. Sci. Foundation Sri Lanka</i> 2022 , <i>50</i> , 151, doi:10.4038/jnsfsr.v50i1.10279
None given	None given	Jeju waters	Korea	Wang et al., 2016	Wang, L.; Oh, J.Y.; Fernando, I.P.S.; Sanjeewa, K.K.A.; Kim, E.-A.; Lee, W.; Jeon, Y.-J. Soft Corals Collected from Jeju Island; a Potential Source of Anti-Inflammatory Phytochemicals. <i>J. Chitin Chitosan</i> 2016 , <i>21</i> , 247–254, doi:10.17642/jcc.21.4.4

None given	None given	Jeju waters	Korea	Sanjeewa et al., 2018	Sanjeewa, K.K.A.; Park, Y.; Fernando, I.P.S.; Ann, Y.-S.; Ko, C.-I.; Wang, L.; Jeon, Y.-J.; Lee, W. Soft Corals Collected from Jeju Island Inhibits the α -MSH-Induced Melanogenesis in B16F10 Cells through Activation of ERK. <i>Fisheries and Aquatic Sciences</i> 2018 , <i>21</i> , 21, doi:10.1186/s41240-018-0097-9
None given	None given	South Jeju	Korea	Song and Lee., 2000	Song, J.; Lee, Y. Systematic Relationships among Species of the Genus <i>Dendronephthya</i> (Alcyonacea; Octocorallia; Anthozoa) Based on Rapd Analysis. <i>Korean Journal of Biological Sciences</i> 2000 , <i>4</i> , 1–7, doi:10.1080/12265071.2000.9647517
None given	None given	Geo-Je Island, South Sea	Korea	Shin et al., 2012	Shin, K.; Chin, J.; Hahn, D.; Lee, J.; Hwang, H.; Won, D.H.; Ham, J.; Choi, H.; Kang, E.; Kim, H.; et al. Sterols from a Soft Coral, <i>Dendronephthya gigantea</i> as Farnesoid X-Activated Receptor Antagonists. <i>Steroids</i> 2012 , <i>77</i> , 355–359, doi:10.1016/j.steroids.2011.12.027
None given	None given	Izu Peninsula	Japan	Ermolenko et al., 2020	Ermolenko, E.V.; Imbs, A.B.; Gloriozova, T.A.; Poroikov, V.V.; Sikorskaya, T.V.; Dembitsky, V.M. Chemical Diversity of Soft Coral Steroids and Their Pharmacological Activities. <i>Marine Drugs</i> 2020 , <i>18</i> , 613, doi:10.3390/md18120613

None given	None given	Sagami Bay	Japan	Utinomi, 1962	Utinomi, H. Preliminary List of Octocorals of Sagami Bay Deposited in the Biological Laboratory of the Imperial Household. <i>Kyoto University Research Information Repository</i> 1962 , 10, 105–108
None given	None given	Tokushima Prefecture	Japan	Yoshikawa et al., 2000	Yoshikawa, K.; Kanekuni, S.; Hanahusa, M.; Arihara, S.; Ohta, T. Polyhydroxylated Sterols from the Octocoral <i>Dendronephthya gigantea</i> . <i>J. Nat. Prod.</i> 2000 , 63, 670–672, doi:10.1021/np990512v
None given	None given	Ryukyu Archipelago	Japan	Imahara et al., 2018	Imahara, Y.; Yamamoto, H.; Takaoka, H.; Nonaka, M. First Records of Four Soft Coral Species from Japan, with a List of Soft Corals Previously Found from the Shallow Waters of the Ryukyu Archipelago, Japan, and an Overview on the Systematics of the Genera <i>Siphonogorgia</i> and <i>Chironephthya</i> . <i>Fauna Ryukyuana</i> 2018 , 38, 1–30.
None given	None given	Cape D'Aquilar, Hong Kong Island	Hong Kong SAR	Clark, 1997	Clark, T.H. The distribution of ahermatypic corals at Cape d'Aguilar, Hong Kong 1997 . In: The marine flora and fauna of Hong Kong and southern China IV, 4, 219

None given	None given	Hong Kong waters	Hong Kong SAR	Verrill, 1864	Verrill A.E. List of the Polyps and Corals Sent by the Museum of Comparative Zoology to Other Institutions in Exchange. <i>Bull. Mus. comp. Zool.</i> 1864 , 1, 29–60, https://www.biodiversitylibrary.org/page/6587563
None given	None given	Meishan, Hainan Province	China	Wu et al., 2018	Wu, J.; Xi, Y.; Huang, L.; Li, G.; Mao, Q.; Fang, C.; Shan, T.; Jiang, W.; Zhao, M.; He, W.; et al. A Steroid-Type Antioxidant Targeting the Keap1/Nrf2/ARE Signaling Pathway from the Soft Coral <i>Dendronephthya gigantea</i> . <i>J. Nat. Prod.</i> 2018 , 81, 2567–2575, doi:10.1021/acs.jnatprod.8b00728.
None given	None given	Sanya, Hainan Province	China	Guoqiang et al., 2004	Li G.; Deng Z.; Guan H.; Guo D.; Lin W. Polyhydroxy Sterols from Soft Coral <i>Dendronephthya gigantea</i> from The South China Sea. <i>Zhongguo hai Yang yao wu (Chinese Journal of Marine Drugs)</i> 2004 , 23, 1, 1–5
None given	None given	Green Island	Taiwan	Duh et al., 2004	Duh, C.-Y.; El-Gamal, A.A.H.; Song, P.-Y.; Wang, S.-K.; Dai, C.-F. Steroids and Sesquiterpenoids from the Soft Corals <i>Dendronephthya gigantea</i> and <i>Lemnalia cervicorni</i> . <i>J. Nat. Prod.</i> 2004 , 67, 1650–1653, doi:10.1021/np030550l