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Daftar Pustaka

Abbas, Z. K., Saggu, S., Sakeran, M. I., Zidan, N., Rehman, H., & Ansari, A. A. (2014). Phytochemical, antioxidant and mineral composition of hydroalcoholic extract of chicory (Cichorium intybus L.) leaves. *Saudi Journal of Biological Sciences*, *22*(3), 322–326. https://doi.org/10.1016/j.sjbs.2014.11.015

Abdelrheem, D. A., Abd El-Mageed, H. R., Mohamed, H. S., Rahman, A. A., Elsayed, K. N. M., & Ahmed, S. A. (2021). Bis-indole alkaloid caulerpin from a new source Sargassum platycarpum: isolation, characterization, in vitro anticancer activity, binding with nucleobases by DFT calculations and MD simulation. *Journal of Biomolecular Structure and Dynamics*, *39*(14), 5137–5147. https://doi.org/10.1080/07391102.2020.1784285

Abreu, M. H., Pereira, R., & Sassi, J.-F. (2015). Marine Algae and the Global Food Industry. In *Marine Algae* (pp. 300–319). Taylor & Francis Group, LLC. www.netalgae.eu

Adetoro, A. O., Opara, U. L., & Fawole, O. A. (2021). Effect of blanching on enzyme inactivation, physicochemical attributes and antioxidant capacity of hot-air dried pomegranate (Punica granatum l.) arils (cv. wonderful). *Processes*, *9*(1), 1–18. https://doi.org/10.3390/pr9010025

Agarry, S., Ajani, A., & Aremu, M. (2013). Thin Layer Drying Kinetics of Pineapple: Effect of Blanching Temperature – Time Combination. *Nigerian Journal of Basic and Applied Sciences*, *21*(1). https://doi.org/10.4314/njbas.v21i1.1

Aguilar-Santos, G. (1970). Caulerpin, a New Red Pigment from Green Algae of the Genus Caulerpa". *J. Chem. SOC. (C)*.

Ahmed, J., Al-Salman, F., & Almusallam, A. S. (2013). Effect of blanching on thermal color degradation kinetics and rheological behavior of rocket (Eruca sativa) puree. *Journal of Food Engineering*, *119*(3), 660–667. https://doi.org/10.1016/j.jfoodeng.2013.06.038

Ahmed, S. A., Abdelrheem, D. A., Abd El-Mageed, H. R., Mohamed, H. S., Rahman, A. A., M Elsayed, K. N., & Ahmed, S. A. (2020). Destabilizing the structural integrity of COVID-19 by caulerpin and its derivatives along with some antiviral drugs: An in silico approaches for a combination therapy. *Structural Chemistry*, *31*, 2391–2412. https://doi.org/10.1007/s11224-020-01586-w/Published

Akomea-Frempong, S., Perry, J. J., & Skonberg, D. I. (2022). Effects of pre-freezing blanching procedures on the physicochemical properties and microbial quality of frozen sugar kelp. *Journal of Applied Phycology*, *34*(1), 609–624. https://doi.org/10.1007/s10811-021-02610-0

Amade, P., & Lemée, R. (1998). Chemical defence of the mediterranean alga Caulerpa taxifolia: variations in caulerpenyne production. *Aquatic Toxicology*, *43*, 287–300.

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
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Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Amico, V., Oriente, G., Piattelli, M., Trinyali, C., Fattorusso, E., Mayno, S., & Mayo, L. (1978, June 20). Caulerpenye, An Unusual Sequiterpenoid from the Green Alga Caulerpa Polifera. *Tetrahedron Letters* , *30*, 3593–3596.

Andrès, E., Molinari, J., Péterszegi, G., Mariko, B., Ruszova, E., Velebny, V., Faury, G., & Robert, L. (2006). Pharmacological properties of rhamnose-rich polysaccharides, potential interest in age-dependent alterations of connectives tissues. *Pathologie Biologie*, *54*(7), 420–425.

Aroyehun, A. Q. B., Razak, S. A., Palaniveloo, K., Nagappan, T., Rahmah, N. S. N., Jin, G. W., Chellappan, D. K., Chellian, J., & Kunnath, A. P. (2020). Bioprospecting cultivated tropical green algae, caulerpa racemosa: a perspective on nutritional properties, antioxidative capacity and anti-diabetic potential. *Foods*, *9*(9). https://doi.org/10.3390/foods9091313

Atmadja, W. S. (1999). *Sebaran Dan Beberapa Aspek Vegetasi Rumput Laut (Makroalga) Di Perairan Terumbu Karang Indonesia*.

Ayyad, S. E., & Badria, F. A. (1994). Caulerpine: an antitumor Indole Alkaloid from Caulerpa racemosa. *Alex. J. Pharm. Sci.*, *8*(3), 217–219.

Bai, J. W., Gao, Z. J., Xiao, H. W., Wang, X. T., & Zhang, Q. (2013). Polyphenol oxidase inactivation and vitamin C degradation kinetics of Fuji apple quarters by high humidity air impingement blanching. *International Journal of Food Science and Technology*, *48*(6), 1135–1141. https://doi.org/10.1111/j.1365-2621.2012.03193.x

Barbosa, M., Valentão, P., & Andrade, P. B. (2014). Bioactive compounds from macroalgae in the new millennium: Implications for neurodegenerative diseases. *Marine Drugs*, *12*(9), 4934–4972. https://doi.org/10.3390/md12094934

Benzie, I. F. F., & Strain, J. J. (1996). The Ferric Reducing Ability of Plasma (FRAP) as a Measure of "'Antioxidant Power'": The FRAP Assay. *Analytical Biochemistry*, *239*, 70–76.

Binsan, W., Benjakul, S., Visessanguan, W., Roytrakul, S., Tanaka, M., & Kishimura, H. (2008). Antioxidative activity of Mungoong, an extract paste, from the cephalothorax of white shrimp (Litopenaeus vannamei). *Food Chemistry*, *106*(1), 185–193. https://doi.org/10.1016/j.foodchem.2007.05.065

Blanc, N., Hauchard, D., Audibert, L., & Ar Gall, E. (2011). Radical-scavenging capacity of phenol fractions in the brown seaweed Ascophyllum nodosum: An electrochemical approach. *Talanta*, *84*(2), 513–518. https://doi.org/10.1016/j.talanta.2011.01.034

Brown, E. M., Allsopp, P. J., Magee, P. J., Gill, C. I., Nitecki, S., Strain, C. R., & Mcsorley, E. M. (2014). Seaweed and human health. *Nutrition Reviews*, *72*(3), 205–216. https://doi.org/10.1111/nure.12091

Burnette, F. S. (1977). PEROXIDASE AND ITS RELATIONSHIP TO FOOD FLAVOR AND QUALITY: A REVIEW. *Journal of Food Science*, *42*.

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
Emi Windrayani, Dr. Nurfitri Ekantari, S.Pi., M.P.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Cahyanurani, A. B., & Ummah, R. (2020). Study of Water Quality in Sea Grape Cultivation (Caulerpa racemosa) in Brackish Water Aquaculture Institute (BBPBAP) Jepara. *Jurnal Ilmu Perikanan*, *11*(2), 58–65.

Cengiz, S., Cavas, L., & Yurdakoc, K. (2010). Alpha-amylase inhibition kinetics by caulerpenyne. *Mediterranean Marine Science*, *11*(1), 93–103. https://doi.org/10.12681/mms.93

Cengiz, S., Cavas, L., Yurdakoc, K., & Pohnert, G. (2011). The Sesquiterpene Caulerpenyne from Caulerpa spp. is a Lipoxygenase Inhibitor. *Marine Biotechnology*, *13*(2), 321–326. https://doi.org/10.1007/s10126-010-9303-1

Chen, X., Sun, Y., Liu, H., Liu, S., Qin, Y., & Li, P. (2019). Advances in cultivation, wastewater treatment application, bioactive components of Caulerpa lentillifera and their biotechnological applications. *PeerJ*, *2019*(1). https://doi.org/10.7717/peerj.6118

Chhe, C., Imaizumi, T., Tanaka, F., & Uchino, T. (2018). Effects of hot-water blanching on the biological and physicochemical properties of sweet potato slices. *Engineering in Agriculture, Environment and Food*, *11*(1), 19–24. https://doi.org/10.1016/j.eaef.2017.10.002

Darmawati., A., Niartiningsih., R., Syamsuddin., J., & Jompa. (2013). Analisis Kandungan Karotenoid pada C. racemosa yang Dibudidayakan pada Berbagai Jarak dan Kedalaman. *Prosiding. Seminar Nasional UNMAS Denpasar.* .

De Corcuera, J. I. R., Cavalieri, R. P., & Powers, J. R. (2004). Blanching of Foods. In *Encyclopedia of Agricultural, Food, and Biological Engineering*. https://doi.org/10.1081/E-EAFE-120030417

De Gaillande, C., Payri, C., Remoissenet, G., & Zubia, M. (2017). Caulerpa consumption, nutritional value and farming in the Indo-Pacific region. *Journal of Applied Phycology*, *29*(5), 2249–2266. https://doi.org/10.1007/s10811-016-0912-6

De Souza, É. T., De Lira, D. P., De Queiroz, A. C., Da Silva, D. J. C., De Aquino, A. B., Campessato Mella, E. A., Lorenzo, V. P., De Miranda, G. E. C., De Araújo-Júnior, J. X., De Oliveira Chaves, M. C., Barbosa-Filho, J. M., De Athayde-Filho, P. F., De Oliveira Santos, B. V., & Alexandre-Moreira, M. S. (2009). The antinociceptive and anti-inflammatory activities of caulerpin, a bisindole alkaloid isolated from seaweeds of the genus Caulerpa. *Marine Drugs*, *7*(4), 689–704. https://doi.org/10.3390/md7040689

Deng, L. Z., Pan, Z., Mujumdar, A. S., Zhao, J. H., Zheng, Z. A., Gao, Z. J., & Xiao, H. W. (2019). High-humidity hot air impingement blanching (HHAIB) enhances drying quality of apricots by inactivating the enzymes, reducing drying time and altering cellular structure. *Food Control*, *96*, 104–111. https://doi.org/10.1016/j.foodcont.2018.09.008

Dewanto, V., Xianzhong, W., Adom, K. K., & Liu, R. H. (2002). Thermal processing enhances the nutritional value of tomatoes by increasing total antioxidant activity. *Journal of Agricultural and Food Chemistry*, *50*(10), 3010–3014. https://doi.org/10.1021/jf0115589

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
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Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Dey, P., Kundu, A., Kumar, A., Gupta, M., Lee, B. M., Bhakta, T., Dash, S., & Kim, H. S. (2020). Analysis of alkaloids (indole alkaloids, isoquinoline alkaloids, tropane alkaloids). In *Recent Advances in Natural Products Analysis* (pp. 505–567). Elsevier. https://doi.org/10.1016/B978-0-12-816455-6.00015-9

Deylami, Mahsa. Z., Abdul Rahman, R., Tan, C. P., Bakar, J., & Olusegun, L. (2016). Effect of blanching on enzyme activity, color changes, anthocyanin stability and extractability of mangosteen pericarp: A kinetic study. *Journal of Food Engineering*, *178*, 12–19. https://doi.org/10.1016/j.jfoodeng.2016.01.001

Dimara, L., & Yenusi, N. T. B. (2011). Uji Aktivitas Antibakteri dan Antioksidan Ekstrak Pigmen Klorofil Rumput Laut Caulerpa racemosa (Forsskal) J.Agardh. *JURNAL BIOLOGI PAPUA*, *3*(2), 53–58.

Dini, I., Soekamto, N. H., Firdaus, Supratman, U., & Latip, J. (2021). Alkaloid caulerpin and cytotoxic activity against NCL-H460 lung cancer cells isolated along with β-sitosterol from the Halimeda cylindracea decaisne. *Sains Malaysiana*, *50*(9), 2663–2674. https://doi.org/10.17576/jsm-2021-5009-14

Drake, S. R., & Kinman, K. (1984). Canned Dry Bean Quality as Influenced by High Temperature Short Time (HIST) Steam Blanching. *Journal of Food Science Volume*, *49*, 1318–1320.

Dwihandita, N. (2009). *Perubahan Kandungan Antioksidan Anggur Laut (Caulerpa racemosa) Akibat Pengolahan*. Institut Pertanian Bogor, Bogor. Retrieved from https://repository.ipb.ac.id/handle/ 123456789/7467.

El Shafay, S., El-Sheekh, M., Bases, E., & El-Shenody, R. (2022). Antioxidant, antidiabetic, anti-inflammatory and anticancer potential of some seaweed extracts. *Food Science and Technology (Brazil)*, *42*, 1–12. https://doi.org/10.1590/fst.20521

Esteves, P. O., de Oliveira, M. C., de Souza Barros, C., Cirne-Santos, C. C., Laneuvlille, V. T., & Palmer Paixão, I. C. (2019). Antiviral Effect of Caulerpin Against Chikungunya. *Natural Product Communications*, *14*(10). https://doi.org/10.1177/1934578X19878295

Fajar, A., Ibrahim, R., & Dewi, N. (2014). Stabilitas ekstrak kasar pigmen klorofil, beta karoten, dan caulerpin alga hijau (Caulerpa racemosa) pada suhu penyimpanan yang berbeda. *Jurnal Pengolahan Dan Bioteknologi Hasil Perikanan*, *3*(1), 1–10. http://www.ejournal-s1.undip.ac.id/index.php/jpbhp

Figueroa, V., Farfán, M., & Aguilera, J. M. (2021). Seaweeds as Novel Foods and Source of Culinary Flavors. *Food Reviews International*. https://doi.org/10.1080/87559129.2021.1892749

Fithriani, D. (2009). *Potensi antioksidan Caulerpa racemosa di perairan Teluk Hurun Lampung* [Thesis]. Institut Pertanian Bogor.

Fithriani, D. (2015). Opportunities And Challenges for Developing Caulerpa Racemosa as Functional Foods. *KnE Life Sciences*, *2*(1), 85. https://doi.org/10.18502/kls.v1i0.90

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
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Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Francezon, N., Tremblay, A., Mouget, J. L., Pasetto, P., & Beaulieu, L. (2021). Algae as a Source of Natural Flavors in Innovative Foods. *Journal of Agricultural and Food Chemistry*, *69*(40), 11753–11772. https://doi.org/10.1021/acs.jafc.1c04409

Guiamba, I. R. F., & Svanberg, U. (2016). Effects of blanching, acidification, or addition of EDTA on vitamin C and β-carotene stability during mango purée preparation. *Food Science and Nutrition*, *4*(5), 706–715. https://doi.org/10.1002/fsn3.335

Guiry, M. D., & Guiry, G. M. (2020, November 27). *AlgaeBase*. World-Wide Electronic Publication, National University of Ireland, Galway. https://www.algaebase.org

Gunawan', M. I., & Barringer', S. A. (2000). Green Color Degradation of Blanched Broccoli (Brasszca Oleracea) Due to Acid And Microbial Growth. *Journal of Food Processing Preservation*, *24*, 253–263.

Guo, Y., Wu, B., Guo, X., Liu, D., Wu, P., Ma, H., & Pan, Z. (2021). Ultrasonication and thermosonication blanching treatments of carrot at varying frequencies: Effects on peroxidase inactivation mechanisms and quality characterization evaluation. *Food Chemistry*, *343*(128524). https://doi.org/10.1016/j.foodchem.2020.128524

Gupta, S., Cox, S., & Abu-Ghannam, N. (2011). Effect of different drying temperatures on the moisture and phytochemical constituents of edible Irish brown seaweed. *LWT*, *44*(5), 1266–1272. https://doi.org/10.1016/j.lwt.2010.12.022

Hamid, S. S., Wakayama, M., Ashino, Y., Kadowaki, R., Soga, T., & Tomita, M. (2020). Effect of blanching on the concentration of metabolites in two parts of Undaria pinnatifida, Wakame (leaf) and Mekabu (sporophyll). *Algal Research*, *47*. https://doi.org/10.1016/j.algal.2020.101829

Haryatfrehni, R., Dewi, S. C., Meilianda, A., Rahmawati, S., & Sari, I. Z. R. (2015). Preliminary Study the Potency of Macroalgae in Yogyakarta: Extraction and Analysis of Algal Pigments from Common Gunungkidul Seaweeds. *Procedia Chemistry*, *14*, 373–380. https://doi.org/10.1016/j.proche.2015.03.051

Heras-Ramírez, M. E., Quintero-Ramos, A., Camacho-Dávila, A. A., Barnard, J., Talamás-Abbud, R., Torres-Muñoz, J. V., & Salas-Muñoz, E. (2012). Effect of Blanching and Drying Temperature on Polyphenolic Compound Stability and Antioxidant Capacity of Apple Pomace. *Food and Bioprocess Technology*, *5*(6), 2201–2210. https://doi.org/10.1007/s11947-011-0583-x

Ho, C.-T. (1992). Phenolic Compounds in Food: an Overview. In *Phenolic Compounds in Food and Their Effects on Health II* (pp. 1–7). American Chemical Society. https://pubs.acs.org/sharingguidelines

Hong, D. D., Hien, H. M., & Son, P. N. (2007). Seaweeds from Vietnam used for functional food, medicine and biofertilizer. *Journal of Applied Phycology*, *19*(6), 817–826. https://doi.org/10.1007/s10811-007-9228-x

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
Emi Windrayani, Dr. Nurfitri Ekantari, S.Pi., M.P.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Huarte, E., Juániz, I., Cid, C., & de Peña, M.-P. (2021). Impact of blanching and frying heating rate/time on the antioxidant capacity and (poly)phenols of cardoon stalks (Cynara cardunculus L. var. altilis DC). *International Journal of Gastronomy and Food Science*, *26*, 100415. https://doi.org/10.1016/j.ijgfs.2021.100415

Imanningsih, N., Muchtadi, D., Wresdiyati, T., & -, K. (2013). Acidic Soaking And Steam Blanching Retain Anthocyanins And Polyphenols In Purple Dioscorea alata FLOUR. *Jurnal Teknologi Dan Industri Pangan*, *24*(2), 121–128. https://doi.org/10.6066/jtip.2013.24.2.121

Januar, H., Wikanta, T., & Hastarini, E. (2004). Hubungan antara Musim dengan Kadar Caulerpin dalam Caulerpa racemosa. *Jumal Penelitian Perikanan Lndonesia*, *10*.

Ji, H., Shao, H., Zhang, C., Hong, P., & Xiong, H. (2008). Separation of the polysaccharides in Caulerpa racemosa and their chemical composition and antitumor activity. *Journal of Applied Polymer Science*, *110*(3), 1435–1440.

Jung, V., Thibaut, T., Meinesz, A., & Pohnert, G. (2002). Comparison of the wound-activated transformation of caulerpenyne by invasive and noninvasive Caulerpa species of the Mediterranean. *Journal of Chemical Ecology*, *28*(10), 2091–2105. https://doi.org/10.1023/A:1020710230532

Kachhadiya, S., Kumar, N., & Seth, N. (2018). Process kinetics on physico-chemical and peroxidase activity for different blanching methods of sweet corn. *Journal of Food Science and Technology*, *55*(12), 4823–4832. https://doi.org/10.1007/s13197-018-3416-3

Kamal, C., & Sethuraman, M. G. (2012). Caulerpin-A bis-indole alkaloid as a green inhibitor for the corrosion of mild steel in 1 M HCl solution from the marine alga caulerpa racemosa. *Industrial and Engineering Chemistry Research*, *51*(31), 10399–10407. https://doi.org/10.1021/ie3010379

Kamsiati, E., Rahayu, E., & Herawati, H. (2020). Pengaruh Blanching terhadap Karakteristik Daun Ubi Kayu Instan. *METANA*, *16*(1), 39–46. https://doi.org/10.14710/metana.v16i1.30461

Kase, A. G. O., Calumpong, H., & Rupidara, A. (2020). Secondary metabolites of some varieties of Caulerpa species. *IOP Conference Series: Materials Science and Engineering*, *823*(1), 1–9. https://doi.org/10.1088/1757-899X/823/1/012041

Klein, J., & Verlaque, M. (2008). The Caulerpa racemosa invasion: A critical review. *Marine Pollution Bulletin*, *56*(2), 205–225. https://doi.org/10.1016/j.marpolbul.2007.09.043

Koca, N., Karadeniz, F., & Burdurlu, H. S. (2007). Effect of pH on chlorophyll degradation and colour loss in blanched green peas. *Food Chemistry*, *100*(2), 609–615.

Kumar, A., Krishnamoorthy, E., Devi, H. M., Uchoi, D., Tejpal, C. S., Ninan, G., & Zynudheen, A. A. (2018). Influence of sea grapes (Caulerpa racemosa) supplementation on physical, functional, and anti-oxidant properties of semi-

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
Emi Windrayani, Dr. Nurfitri Ekantari, S.Pi., M.P.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

sweet biscuits. *Journal of Applied Phycology*, *30*(2), 1393–1403. https://doi.org/10.1007/s10811-017-1310-4

Kumar, M., Gupta, Vishal., Kumari, P., Reddy, C. R. K., & Jha, B. (2011). Assessment of nutrient composition and antioxidant potential of Caulerpaceae seaweeds. *Journal of Food Composition and Analysis*, *24*(2), 270–278. https://doi.org/10.1016/j.jfca.2010.07.007

Lachos-Perez, D., Baseggio, A. M., Mayanga-Torres, P. C., Maróstica, M. R., Rostagno, M. A., Martínez, J., & Forster-Carneiro, T. (2018). Subcritical water extraction of flavanones from defatted orange peel. *Journal of Supercritical Fluids*, *138*, 7–16. https://doi.org/10.1016/j.supflu.2018.03.015

Lann, K. Le, Jégou, C., & Stiger-Pouvreau, V. (2008). Effect of different conditioning treatments on total phenolic content and antioxidant activities in two Sargassacean species: Comparison of the frondose Sargassum muticum (Yendo) Fensholt and the cylindrical Bifurcaria bifurcata R. Ross. *Phycological Research*, *56*(4), 238–245. https://doi.org/10.1111/j.1440-1835.2008.00505.x

Leandro, A., Pacheco, D., Cotas, J., Marques, J. C., Pereira, L., & Gonçalves, A. M. M. (2020). Seaweed's bioactive candidate compounds to food industry and global food security. *Life*, *10*(8), 1–37. https://doi.org/10.3390/life10080140

Lee, F. A. (1958). *THE BLANCHING PROCESS* (pp. 63–106).

Lesser, M. P. (2006). Oxidative stress in marine environments: Biochemistry and physiological ecology. *Annual Review of Physiology*, *68*, 253–278. https://doi.org/10.1146/annurev.physiol.68.040104.110001

Lim, Y. Y., & Murtijaya, J. (2007). Antioxidant properties of Phyllanthus amarus extracts as affected by different drying methods. *LWT*, *40*(9), 1664–1669. https://doi.org/10.1016/j.lwt.2006.12.013

Liu, D. Q., Mao, S. C., Zhang, H. Y., Yu, X. Q., Feng, M. T., Wang, B., Feng, L. H., & Guo, Y. W. (2013). Racemosins A and B, two novel bisindole alkaloids from the green alga Caulerpa racemosa. *Fitoterapia*, *91*, 15–20. https://doi.org/10.1016/j.fitote.2013.08.014

Lorenzo, V. P., Barbosa Filho, J. M. , Scotti, L., & Scotti, M. T. (2015). Combined structure- and ligand-based virtual screening to evaluate caulerpin analogs with potential inhibitory activity against monoamine oxidase B. *Revista Brasileira de Farmacognosia*, *25*(6), 690–697.

Macedo, N. R. P. V., Ribeiro, M. S., Villaça, R. C., Ferreira, W., Pinto, A. M., Teixeira, V. L., Cirne-Santos, C., Paixão, I. C. N. P., & Giongo, V. (2012). Caulerpin as a potential antiviral drug against herpes simplex virus type 1. *Journal of Pharmacognosy*, *22*(4), 861–867. https://doi.org/10.1590/S0102

Magdugo, R. P., Terme, N., Lang, M., Pliego-Cortés, H., Marty, C., Hurtado, A. Q., Bedoux, G., & Bourgougnon, N. (2020). An analysis of the nutritional and health values of Caulerpa racemosa (Forsskål) and Ulva fasciata (Delile)—Two chlorophyta collected from the Philippines. *Molecules*, *25*(12). https://doi.org/10.3390/molecules25122901

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GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
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Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Magliozzi, L., Maselli, V., Almada, F., Di Cosmo, A., Mollo, E., & Polese, G. (2019). Effect of the algal alkaloid caulerpin on neuropeptide Y (NPY) expression in the central nervous system (CNS) of Diplodus sargus. *Journal of Comparative Physiology A*, *205*, 203–210. https://doi.org/10.1007/s00359-019-01322-8

Mahadevan, K. (2015). Seaweeds: A sustainable food source. In *Seaweed Sustainability: Food and Non-Food Applications* (pp. 347–364). Elsevier Inc. https://doi.org/10.1016/B978-0-12-418697-2.00013-1

Maharani, B. C., Lindriati, T., & Diniyah, N. (2016). Pengaruh Variasi Waktu Blanching dan Konsentrasi Asam Sitrat Terhadap Karakteristik dan Aktivitas Ekstrak Pigmen Ubi Jalar Ungu (Ipomoea batatas L.). *Indonesian Journal of Food Research*, *1*(1), 60–67. https://doi.org/10.24198/jp2.2016.vol1.1.10

Maiti, B. C., & Thomson, R. H. (1977). Caulerpin. In Marine natural products chemistry. *Marine Natural Products Chemistry*, 159–160.

Manoppo, J. I. C., Nurkolis, F., Batubara, S. C., Rompies, R., Mayulu, N., Assa, Y. A., Natanael, H., Wewengkang, D. S., & Rotinsulu, H. (2021). Nata de ceulerpa from sea grape fermentation (Caulerpa racemosa) by Acetobacter xylinum as a functional food rich in vitamin C. *Proceedings of the Nutrition Society*, *80*(OCE3). https://doi.org/10.1017/s0029665121002664

Martínez, S., Pérez, N., Carballo, J., & Franco, I. (2013). Effect of blanching methods and frozen storage on some quality parameters of turnip greens (“ grelos”). *LWT*, *51*(1), 383–392. https://doi.org/10.1016/j.lwt.2012.09.020

Matanjun, P., Mohamed, S., Mustapha, N. M., Muhammad, K., & Ming, C. H. (2008). Antioxidant activities and phenolics content of eight species of seaweeds from north Borneo. *Journal of Applied Phycology*, *20*(4), 367–373. https://doi.org/10.1007/s10811-007-9264-6

Matsukawa, R., Dubinsky, Z., Kishimoto, E., Masaki, K., Masuda, Y., Takeuchi, T., Chihara, M., Yamamoto, Y., Niki, E., & Karube, I. (1997). A comparison of screening methods for antioxidant activity in seaweeds. *Journal of Applied Phycology*, *9*, 29–35.

Mehta, D., Prasad, P., Bansal, V., Siddiqui, M. W., & Sharma, A. (2017). Effect of drying techniques and treatment with blanching on the physicochemical analysis of bitter-gourd and capsicum. *LWT*, *84*, 479–488. https://doi.org/10.1016/j.lwt.2017.06.005

Minh, N. P., Thi Yen Nhi, T., Kim Tuyen, L., Hung Phi, T., Tan Khoa, D., & Quoc Thuan, T. (2019). Technical Factors Affecting Seagrape (Caulerpa lentillifera) Production By Cultivation And Its Stability By Post-Harvest Treatment. *J. Pharm. Sci. & Res.* , *11*(3), 783–786.

Muliani, S., Rosmiati, & Isma, M. F. (2021). Analysis Of The Suitabilityof The Quality of The Water of Kuala Langsa For The Cultivation of Sea Grapes (Caulerpa Recemosa) Reviewed By Gis. *Jurnal Ilmiah Samudra Akuatika*, *IV*(2), 66–75.

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
Emi Windrayani, Dr. Nurfitri Ekantari, S.Pi., M.P.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Murcia, M. A., López-Ayerra, B., Martínez-Tomé, M., & García-Carmona, F. (2000). Effect of industrial processing on chlorophyll content of broccoli. *Journal of the Science of Food and Agriculture*, *80*(10), 1447–1451.

Nagappan, T., & Vairappan, C. S. (2014). Nutritional and bioactive properties of three edible species of green algae, genus Caulerpa (Caulerpaceae). *Journal of Applied Phycology*, *26*(2), 1019–1027. https://doi.org/10.1007/s10811-013-0147-8

Nalawade, S. A., Sinha, A., & Hebbar, H. U. (2018). Infrared based dry blanching and hybrid drying of bitter gourd slices: Process efficiency evaluation. *Journal of Food Process Engineering*, *41*(4).

Nayak, B., Liu, R. H., & Tang, J. (2015). Effect of Processing on Phenolic Antioxidants of Fruits, Vegetables, and Grains—A Review. *Critical Reviews in Food Science and Nutrition*, *55*(7), 887–918. https://doi.org/10.1080/10408398.2011.654142

Negi, P. S., & Roy, S. K. (2000). Effect of Blanching and Drying Methods on β -Carotene, Ascorbic acid and Chlorophyll Retention of Leafy Vegetables. *LWT*, *33*(4), 295–298. https://doi.org/10.1006/fstl.2000.0659

Nguyen, V. T., Ueng, J. P., & Tsai, G. J. (2011). Proximate Composition, Total Phenolic Content, and Antioxidant Activity of Seagrape (Caulerpa lentillifera). *Journal of Food Science*, *76*(7). https://doi.org/10.1111/j.1750-3841.2011.02289.x

Nie, J., Chen, D., Lu, Y., & Dai, Z. (2021). Effects of various blanching methods on fucoxanthin degradation kinetics, antioxidant activity, pigment composition, and sensory quality of Sargassum fusiforme. *LWT*, *143*(111179), 1–9. https://doi.org/10.1016/j.lwt.2021.111179

Nielsen, C. W., Holdt, S. L., Sloth, J. J., Marinho, G. S., Sæther, M., Funderud, J., & Rustad, T. (2020). Reducing the high iodine content of Saccharina latissima and improving the profile of other valuable compounds by water blanching. *Foods*, *9*(5). https://doi.org/10.3390/foods9050569

Nielsen, P. G., Carl, J. S., & Christophersen, C. (1982). Final Structure of Caulerpicin, a Toxin Mixture from the Green Alga Caulerpa Racemosa. *Phytochemistry*, *21*(7), 1643–1645.

Noè, S., Badalamenti, F., Bonaviri, C., Musco, L., Fernández, T. V., Vizzini, S., & Gianguzza, P. (2018). Food selection of a generalist herbivore exposed to native and alien seaweeds. *Marine Pollution Bulletin*, *129*(2), 469–473. https://doi.org/10.1016/j.marpolbul.2017.10.015

Nurjanah, ., Jacoeb, A. M., Hidayat, T., & Chrystiawan, R. (2018). Perubaha Komponen Serat Rumput Laut Caulerpa sp. (dari Tual, Maluku) akibat Proses Perebusan. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, *10*(1), 35–48. https://doi.org/10.29244/jitkt.v10i1.21545

Nurjanah, N., Jacoeb, A. M., Asmara, D. A., & Hidayat, T. (2019). Phenol Component of Fresh and Boiled Sea Grapes (Caulerpa sp.) from Tual, Maluku. *Food ScienTech Journal*, *1*(1), 31. https://doi.org/10.33512/fsj.v1i1.6244

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
Emi Windrayani, Dr. Nurfitri Ekantari, S.Pi., M.P.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Nursyamsi, F. N., & Husni, A. (2021). Soaking Time in Lime Solution Increases the Antioxidant Activity, Antidiabetic Activity, and Consumer Acceptance Level of Sargassum Polycystum Seaweed Tea. *Journal of Hunan University (Natural Sciences)*, *48*(7), 276–285.

Oboh, G. (2005). Effect of blanching on the antioxidant properties of some tropical green leafy vegetables. *LWT*, *38*(5), 513–517. https://doi.org/10.1016/j.lwt.2004.07.007

Olivera, D. F., Viña, S. Z., Marani, C. M., Ferreyra, R. M., Mugridge, A., Chaves, A. R., & Mascheroni, R. H. (2008). Effect of blanching on the quality of Brussels sprouts (Brassica oleracea L. gemmifera DC) after frozen storage. *Journal of Food Engineering*, *84*(1), 148–155. https://doi.org/10.1016/j.jfoodeng.2007.05.005

Ornano, L., Donno, Y., Sanna, C., Ballero, M., Serafini, M., & Bianco, A. (2014). Phytochemical study of Caulerpa racemosa (Forsk.) J. Agarth, an invading alga in the habitat of la Maddalena archipelago. *Natural Product Research*, *28*(20), 1795–1799. https://doi.org/10.1080/14786419.2014.945928

Osuna-Ruiz, I., López-Saiz, C. M., Burgos-Hernández, A., Velázquez, C., Nieves-Soto, M., & Hurtado-Oliva, M. A. (2016). Antioxidant, antimutagenic and antiproliferative activities in selected seaweed species from Sinaloa, Mexico. *Pharmaceutical Biology*, *54*(10), 2196–2210. https://doi.org/10.3109/13880209.2016.1150305

Othman, R., Noh, N. H., Hatta, F. A. M., & Jamaludin, M. A. (2018). Natural carotenoid pigments of 6 chlorophyta freshwater green algae species. *Journal of Pharmacy and Nutrition Sciences*, *8*(1), 1–5. https://doi.org/10.6000/1927-5951.2018.08.01.1

Park, J. S., Han, J. M., Surendhiran, D., & Chun, B. S. (2022). Physicochemical and biofunctional properties of Sargassum thunbergii extracts obtained from subcritical water extraction and conventional solvent extraction. *Journal of Supercritical Fluids*, *182*. https://doi.org/10.1016/j.supflu.2022.105535

Parvez, M., Ara, J., Sultana, V., Qasim, R., & Uddin Ahmad, V. (2000). Caulerpin. *Acta Crystallographica*, *C56*, 96–97.

Permatasari, H. K., Nurkolis, F., Augusta, P. S., Mayulu, N., Kuswari, M., Taslim, N. A., Wewengkang, D. S., Batubara, S. C., & Ben Gunawan, W. (2021). Kombucha tea from seagrapes (Caulerpa racemosa) potential as a functional anti-ageing food: in vitro and in vivo study. *Heliyon*, *7*(9). https://doi.org/10.1016/j.heliyon.2021.e07944

Pesando, D., Huitorel, P., Dolcini, V., Amade, P., & Girard, J. P. (1998). Caulerpenyne interferes with microtubule-dependent events during the first mitotic cycle of sea urchin eggs. *European Journal of Cell Biology*, *77*(1), 19–26. https://doi.org/10.1016/S0171-9335(98)80098-8

Pesando, D., Lemkealb, R., Ferrua, C., Amade, P., & Girard, J.-P. (1996). Effects of caulerpenyne, the major toxin from Caulerpa taxifolia on mechanisms related to sea urchin egg cleavage. *Aquatic Toxicology*, *35*, 139–155.

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
Emi Windrayani, Dr. Nurfitri Ekantari, S.Pi., M.P.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Pujimulyani, D., Raharjo, S., Marsono, Y., & Santoso, U. (2012). The effect of blanching on antioxidant activity and glycosides of white saffron (Curcuma mangga Val.). *International Food Research Journal*, *19*(2), 617–621.

Pusecker, K., Laatsch, H., Helmke, E., & Weylandb, H. (1997). Dihydrophencomycin Methyl Ester, a NewPhenazine Derivative from a Marine Streptomycete. *The Journal of Antibiotics* , *50*(6), 479–483.

Putnarubun, C., & Valentine, R. Y. (2020). Pigmen Klorofil Pada Alga Caulerpa sp. DiKepulauan Kei. *Jambura Fish Processing Journal*, *2*(2), 41–48. https://doi.org/10.37905/jfpj.v2i2.6855

Ratana-Arporn, P., & Chirapart, A. (2006). Nutritional Evaluation of Tropical Green Seaweeds Caulerpa lentillifera and Ulva reticulata. *Nat. Sci.*, *40*, 75–83.

Raub, M. F., Cardellina, J. H., & Schwede, J. G. (1987). The Green Algal Pigment Caulerpin as a Plant Growth Regulator. *Phytochemistry*, *26*(3), 619–620.

Rohman, A., Riyanto, S., Yuniarti, N., Saputra, W. R., Utami, R., & Mulatsih, W. (2010). Antioxidant activity, total phenolic, and total flavaonoid of extracts and fractions of red fruit (Pandanus conoideus Lam). *International Food Research Journal*, *17*, 97–106.

Sappati, P. K., Nayak, B., VanWalsum, G. P., & Mulrey, O. T. (2019). Combined effects of seasonal variation and drying methods on the physicochemical properties and antioxidant activity of sugar kelp (Saccharina latissima). *Journal of Applied Phycology*, *31*(2), 1311–1332. https://doi.org/10.1007/s10811-018-1596-x

Schoefs, B. (2004). Determination of pigments in vegetables. *Journal of Chromatography A*, *1054*(1–2), 217–226. https://doi.org/10.1016/j.chroma.2004.05.105

Sihono, S., Tarman, K., Madduppa, H., & Januar, H. I. (2018). Metabolite Profiles and Antioxidant Activity of Caulerpa racemosa with Different Handlings. *Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology*, *13*(3), 93. https://doi.org/10.15578/squalen.v13i3.355

Simopoulos, A. P. (2002). The importance of the ratio of omega-6/omega-3 essential fatty acids. *Biomed Pharmacother* , *56*, 365–379. www.elsevier.com/locate/biopha

Sinurat, E., & Suryaningrum, Th. D. (2019). Aktivitas Antioksidan dan Sifat Sensori Teh Rumput Laut Sargassum sp. Berdasarkan Variasi Lama Perendaman. *JPHPI*, *22*(3), 581–588.

Song, X., Yu, X., Zhou, C., Xu, B., Chen, L., Yagoub, A. E. A., Emeka, O. C., & Wahia, H. (2021). Conveyor belt catalytic infrared as a novel apparatus for blanching processing applied to sweet potatoes in the industrial scale. *LWT*, *149*, 111827.

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
Emi Windrayani, Dr. Nurfitri Ekantari, S.Pi., M.P.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

South, G. R., Morris, C., Bala, S., & Lober, M. (2012). *Value adding and supply chain development for fisheries and aquaculture products in Fiji, Samoa and Tonga: Scoping study for Caulerpa (Sea grapes)*.

Sugawara, T., Ganesan, P., Li, Z., Manabe, Y., & Hirata, T. (2014). Siphonaxanthin, a green algal carotenoid, as a novel functional compound. *Marine Drugs*, *12*(6), 3660–3668. https://doi.org/10.3390/md12063660

Sun, Y., Liu, Z., Song, S., Zhu, B., Zhao, L., Jiang, J., Liu, N., Wang, J., & Chen, X. (2020). Anti-inflammatory activity and structural identification of a sulfated polysaccharide CLGP4 from Caulerpa lentillifera. *International Journal of Biological Macromolecules*, *146*, 931–938. https://doi.org/10.1016/j.ijbiomac.2019.09.216

Tanna, B., Choudhary, B., & Mishra, A. (2018). Metabolite profiling, antioxidant, scavenging and anti-proliferative activities of selected tropical green seaweeds reveal the nutraceutical potential of Caulerpa spp. *Algal Research*, *36*, 96–105. https://doi.org/10.1016/j.algal.2018.10.019

Tanna, B., Yadav, S., & Mishra, A. (2020). Anti-proliferative and ROS-inhibitory activities reveal the anticancer potential of Caulerpa species. *Molecular Biology Reports*, *47*(10), 7403–7411. https://doi.org/10.1007/s11033-020-05795-8

Tapotubun, A. M. (2018). Komposisi Kimia Rumput Laut (Caulerpa lentillifera) dari Perairan Kei Maluku dengan Metode Pengeringan Berbeda. *Jurnal Pengolahan Hasil Perikanan Indonesia*, *21*(1), 13. https://doi.org/10.17844/jphpi.v21i1.21257

Tapotubun, A. M., Savitri, I. K. E., & Matrutty, T. E. A. A. (2016). Penghambatan bakteri patogen pada ikan segar yang diaplikasi Caulerpa lentillifera. *Jurnal Pengolahan Hasil Perikanan*, *19*(3), 299–308. https://doi.org/10.17844/jphpi.2016.19.3.299

Taslim, N. A., & Nurkolis, F. (2021). Antioxidant and cytotoxic activities of three species of tropical seaweeds. *Annals of R.S.C.B*, *15*(6), 6500–6504.

Tello-Ireland, C., Lemus-Mondaca, R., Vega-Gálvez, A., López, J., & Di Scala, K. (2011). Influence of hot-air temperature on drying kinetics, functional properties, colour, phycobiliproteins, antioxidant capacity, texture and agar yield of alga Gracilaria chilensis. *LWT- Food Science and Technology*, *44*(10), 2112–2118. https://doi.org/10.1016/j.lwt.2011.06.008

Tijskens, L. M. M., Barringer, S. A., & Biekman, E. S. A. (2001). Modelling the effect of pH on the colour degradation of blanched broccoli. *Innovative Food Science & Emerging Technologies*, *2*, 315322.

Uribe, E., Vega-Gálvez, A., García, V., Pastén, A., López, J., & Goñi, G. (2019). Effect of different drying methods on phytochemical content and amino acid and fatty acid profiles of the green seaweed, Ulva spp. *Journal of Applied Phycology*, *31*(3), 1967–1979. https://doi.org/10.1007/s10811-018-1686-9

Vasanthi, C., Appa Rao, V., Narendra Babu, R., Sriram, P., & Karunakaran, R. (2020). In-vitro antioxidant activities of aqueous and alcoholic extracts of

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
Emi Windrayani, Dr. Nurfitri Ekantari, S.Pi., M.P.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Sargassum species—Indian brown seaweed. *Journal of Food Processing and Preservation*, *44*(11). https://doi.org/10.1111/jfpp.14877

Vest, S. E., Dawes, C. J., & Romeo, J. T. (1983). Distribution of Caulerpin Caulerpicin in Eight Species of the Green Alga Caulerpa. *Botanica Marina*, *XXVI*, 313–316.

Vidal, J. P., Laurent, D., Kabore, S. A., Rechencq, E., Boucard, M., Girard, J. P., Escale, R., & Rossi, J. C. (1984). Caulerpin, Caulerpicin, Caulerpa scalpelliformis: Comparative Acute Toxicity Study. *Botanica Marina*, 533–537.

Wang, H., Fang, X. M., Sutar, P. P., Meng, J. S., Wang, J., Yu, X. L., & Xiao, H. W. (2021). Effects of vacuum-steam pulsed blanching on drying kinetics, colour, phytochemical contents, antioxidant capacity of carrot and the mechanism of carrot quality changes revealed by texture, microstructure and ultrastructure. *Food Chemistry*, *338*. https://doi.org/10.1016/j.foodchem.2020.127799

Wang, H. O., Fu, Q. Q., Chen, S. J., Hu, Z. C., & Xie, H. X. (2018). Effect of Hot-Water Blanching Pretreatment on Drying Characteristics and Product Qualities for the Novel Integrated Freeze-Drying of Apple Slices. *Journal of Food Quality*, *2018*. https://doi.org/10.1155/2018/1347513

Wang, Y., Sun, J., Ma, D., Li, X., Gao, X., Miao, J., & Gao, W. (2019). Improving the contents of the active components and bioactivities of Chrysanthemum morifolium Ramat.: The effects of drying methods. *Food Bioscience*, *29*, 9–16. https://doi.org/10.1016/j.fbio.2019.03.003

Wardani, A. D., Susanto, E., Dewi, N., & Purnamayati, L. (2020). Pengaruh Perbedaan Pre-Treatment Terhadap Stabilitas Karotenoid dan Fenol pada Ekstrak Sargassum Duplicatum Selama Penyimpanan. *JPHPI 2020*, *23*(2), 236–247.

Wijesekara, I., Pangestuti, R., & Kim, S. (2011). Biological activities and potential health benefits of sulfated polysaccharides derived from marine algae. *Carbohydrate Polymers*, *84*(1), 14–21. https://doi.org/https://doi.org/10.1016/j.carbpol.2010.10.062

Windrayani, E., & Ekantari, N. (2021). The Fortification Effects of Sea Grapes (Caulerpa racemosa) Powder on Color and Sensory of Hakau Dim Sum Wrappers. *IOP Conference Series: Earth and Environmental Science 919*, *919*(1). https://doi.org/10.1088/1755-1315/919/1/012048

Wink, M. (1994). The cell culture medium-a functional extracellular compartment of suspension-cultured cells. *Plant Cell, Tissue and Organ Culture*, *38*, 307–319.

Wolfe, K. L., & Liu, R. H. (2003). Apple peels as a value-added food ingredient. *Journal of Agricultural and Food Chemistry*, *51*(6), 1676–1683. https://doi.org/10.1021/jf025916z

Wu, L., He, T., Gu, W., & Wang, J. (2010). Effects of caulerpin on adventitious rooting in soybean hypocotyls cuttings. Plant Physiology Communications. *Plant Physiology Communications*, *46*(9), 895–901.

UNIVERSITAS
GADJAH MADA
STABILITAS PANAS SENYAWA ANTIOKSIDAN Caulerpa racemosa TERHADAP PROSES BLANCHING
Emi Windrayani, Dr. Nurfitri Ekantari, S.Pi., M.P.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Xiao, H. W., Pan, Z., Deng, L. Z., El-Mashad, H. M., Yang, X. H., Mujumdar, A. S., Gao, Z. J., & Zhang, Q. (2017). Recent developments and trends in thermal blanching – A comprehensive review. *Information Processing in Agriculture*, *4*(2), 101–127. https://doi.org/10.1016/j.inpa.2017.02.001

Xu, H., Wu, M., Zhang, X., Wang, B., Wang, S., Zheng, Z., Li, D., & Wang, F. (2022). Application of blanching pretreatment in herbaceous peony (Paeonia lactiflora Pall.) flower processing: Improved drying efficiency, enriched volatile profile and increased phytochemical content. *Industrial Crops and Products*, *188*(115663). https://doi.org/10.1016/j.indcrop.2022.115663

Xu, Naijin., Chen, Guanqun., & Liu, Hui. (2017). Antioxidative categorization of twenty amino acids based on experimental evaluation. *Molecules*, *22*(12). https://doi.org/10.3390/molecules22122066

Yang, P., Liu, D. Q., Liang, T. J., Li, J., Zhang, H. Y., Liu, A. H., Guo, Y. W., & Mao, S. C. (2015). Bioactive constituents from the green alga Caulerpa racemosa. *Bioorganic and Medicinal Chemistry*, *23*(1), 38–45. https://doi.org/10.1016/j.bmc.2014.11.031

Yap, W. F., Tay, V., Tan, S. H., Yow, Y. Y., & Chew, J. (2019). Decoding antioxidant and antibacterial potentials of Malaysian green seaweeds: Caulerpa racemosa and caulerpa lentillifera. *Antibiotics*, *8*(3). https://doi.org/10.3390/antibiotics8030152

Zubia, M., Robledo, D., & Freile-Pelegrin, Y. (2007). Antioxidant activities in tropical marine macroalgae from the Yucatan Peninsula, Mexico. *Journal of Applied Phycology*, *19*(5), 449–458. https://doi.org/10.1007/s10811-006-9152-5