

REFERENCES

- Abbott, W. . (1925) 'A Method of Computing the Effectiveness of an Insecticide', *Journal of Economic Entomology*, 18(2), pp. 265–267
- Abirami, R. G. and Kowsalya, S. (2016) 'Quantification and Correlation Study on Derived Phenols and Antioxidant Activity of Seaweeds from Gulf of Mannar Quantification and Correlation Study on Derived Phenols and Antioxidant Activity of Seaweeds from Gulf of Mannar', *Journal of Herbs, Spices & Medicinal Plants*. Taylor & Francis, 23(1), pp. 1–9.
- Abootalebian, M. et al. (2016) 'Comparison of total phenolic and antioxidant activityof different *Mentha spicata* and *M. longifolia* accessions', *Annals of Agricultural Sciences*. Faculty of Agriculture, Ain Shams University, 61(2), pp. 175–179. doi: 10.1016/j.aaos.2016.10.002.
- Abotaleb, M. et al. (2018) 'Flavonoids in Cancer and Apoptosis', *Cancers*, 11(1 29).
- Ademiluyi, A. O. and Oboh, G. (2013) 'Soybean phenolic-rich extracts inhibit key enzymes linked to type 2 diabetes (-amylase and -glucosidase) and hypertension (angiotensin I converting enzyme) in vitro', *Experimental and Toxicologic Pathology*. Elsevier GmbH., 65(3), pp. 305–309.
- Agatonovic-kustrin, S. and Morton, D. W. (2017) 'High-performance thin-layer chromatography HPTLC-direct bioautography as a method of choice for alpha-amylase and antioxidant activity evaluation in marine algae Snezana', *Journal of Chromatography A*. Elsevier B.V., 1530, pp. 197–203.
- Al-enazi, N. M. et al. (2018) 'Antimicrobial , antioxidant and anticancer activities of Laurencia catarinensis , Laurencia majuscula and Padina pavonica extracts', *Saudi Pharmaceutical Journal*. King Saud University, 26, pp. 44–52.
- Ale, M. T., Mikkelsen, J. D. and Meyer, A. S. (2011) 'Important Determinants for Fucoidan Bioactivity: A Critical Review of Structure-Function Relations and Extraction Methods for Fucose-Containing Sulfated Polysaccharides from Brown Seaweeds', *Marine Drugs*, 9(10), pp. 2106–2130.
- ALENCAR, D. B. D., SILVA, S. R. D., PIRES-CAVALCANTE, K. M. S., LIMA, R. L. D., PEREIRA JÚNIOR, F. N., SOUSA, M. B. D., ... SAKER SAMPAIO, S. (2014) 'Antioxidant potential and cytotoxic activity of two red seaweed species , *Amansia multifida* and *Meristiella echinocarpa* , from the coast of Northeastern Brazil', *Anais Da Academia Brasileira de Ciencias*, 86(1), pp. 251–263.
- Amorim, K. and López-hernández, J. (2012) 'Changes in bioactive compounds content and antioxidant activity of seaweed after cooking processing', *CyTA Journal of Food*, 10(4), pp. 321–324.
- Ansari, A. A., Alghanem, S. M. and Ghauri, N. (2019) 'Brown Alga Padina : A review', *International Journal of Botany Studies*, 4(1), pp. 1–3.
- Arbiastutie, Y. et al. (2017) 'The potential of understorey plants from Gunung Gede Pangrango National Park (West Java , Indonesia) as cervixs anticancer agents', *Biodiversitas*, 18(1), pp. 109–115.
- Arnold, M. et al. (2015) 'Global burden of cancer attributable to high body-mass index in 2012: a population-based study', *The Lancet Oncology*. World Health Organization. Published by Elsevier Ltd/Inc/BV. All rights reserved., 16(1), pp. 36–46.
- Aronoff, S. L., Berkowitz, K. and Shreiner, B. (2004) 'Glucose Metabolism and Regulation: Beyond Insulin and Glucagon', *Diabetes Spectrum*, 17(3), pp.

183–190.

- Arumugam, N., Chelliapan, S. and Kamyab, H. (2018) ‘Treatment of Wastewater Using Seaweed: A Review’, *International Journal of Environmental Research and Public Health*, 15(12), pp. 1–17.
- Ashraf, M. A. et al. (2011) ‘Study of Antioxidant Potential of Tropical Fruit’, *International Journal of Bioscience, Biochemistry and Bioinformatics*, 1(1), pp. 35–57.
- Association, A. D. (2008) ‘Nutrition Recommendations and PREVENTION AND’, *Diabetes Care*, 31(1), pp. 61–78.
- Ayesha et al. (2010) ‘IN VITRO CYTOTOXICITY OF SEAWEEDS FROM KARACHI COAST ON BRINE SHRIMP’, *Pakistan Journal of Botany*, 42(5), pp. 3555–3560.
- Baliano, A. P. et al. (2016) ‘Brown seaweed Padina gymnospora is a prominent natural wound-care product’, *Revista Brasileira de Farmacognosia. Sociedade Brasileira de Farmacognosia*, 26(6), pp. 714–719.
- Baweja, P. et al. (2016) *Biology of Seaweeds, Seaweed in Health and Disease Prevention*. Elsevier Inc.
- Berteau, O. and Mulloy, B. (2003) ‘Sulfated fucans , fresh perspectives: structures , functions , and biological properties of sulfated fucans and an overview of enzymes active toward this class of polysaccharide’, *Glycobiology*, 13(6), pp.29–40.
- Borines, M. G., Leon, R. I. De and Cuello, J. L. (2013) ‘Bioethanol production from the macroalgae Sargassum spp’, *BIORESOURCE TECHNOLOGY*. Elsevier Ltd, 138, pp. 22–29.
- Canoy, J. L. and Bitacura, J. G. (2018) ‘Cytotoxicity and Antiangiogenic Activity of Turbinaria ornata Agardh and Padina australis Hauck Ethanolic Extracts’, *Analytical Cellular Pathology*, 2018, pp. 1–8.
- Cao, C. et al. (2019) ‘Physicochemical characterization , potential antioxidant and hypoglycemic activity of polysaccharide from Sargassum pallidum’, *International Journal of Biological Macromolecules*. Elsevier B.V., 139, pp. 1–9.
- Cardoso, S. L. et al. (2017) ‘Biosorption of toxic metals using the alginate extraction residue from the brown algae Sargassum filipendula as a natural ion exchanger’, *Journal of Cleaner Production*. Elsevier Ltd, 165, pp. 491–499.
- Chen, L. et al. (2018) ‘Digestibility of sulfated polysaccharide from the brown seaweed Ascophyllum nodosum and its effect on the human gut microbiota in vitro’, *Biological Macromolecules*. Elsevier B.V, 112, pp. 1055–1061.
- Chia, Y. Y., Kanthimathi, M. S., Rajarajeswaran, J., et al. (2015) ‘Antioxidant, antiproliferative, genotoxic and cytoprotective effects of the methanolic extract of Padina tetrastromatica on human breast adenocarcinoma and embryonic fibroblast cell lines’, *Frontiers in Life Science*, 8(4), pp. 411–418.
- Chia, Y. Y., Kanthimathi, M. S., Khoo, K. S., et al. (2015) ‘Antioxidant and cytotoxic activities of three species of tropical seaweeds’, *BMC Complementary and Alternative Medicine*. BMC Complementary and Alternative Medicine, pp. 1-14.
- Chin, Y. . et al. (2014) ‘Anti-diabetic potential of selected Malaysian seaweeds’, *Journal of Applied Phycology*, 27(5), pp. 2137–2148.
- Craigie, J. S. (2011) ‘Seaweed extract stimuli in plant science and agriculture’, *Journal of Applied Phycology*, 23(3), pp. 371–393.

- Cui, Y. et al. (2018) ‘Extraction, characterization and biological activity of sulfated polysaccharides from seaweed *Dictyopteris divaricata* Yinxin’, *International Journal of Biological Macromolecules*. Elsevier B.V, 117, pp. 256–263.
- Das, K., Tiwari, R. K. S. and Shrivastava, D. K. (2010) ‘Techniques for evaluation of medicinal plant products as antimicrobial agent: Current methods and future trends’, *Journal of Medicinal Plaris Research*, 4(2), pp. 104–111.
- Dellavalle, P. D. et al. (2011) ‘Antifungal Activity of Medicinal Plant Extracts Against Phytopathogenic Fungus *alternaria* spp’, *Chilean Journal of Agricultural Research*, 71(2), pp. 231–239.
- Dhanani, T. et al. (2013) ‘Effect of extraction methods on yield , phytochemical constituents and antioxidant activity of *Withania somnifera*’, *Arabian Journal of Chemistry*, 10, pp. 1193–1199.
- Fan, S. et al. (2017) ‘Antitumor effects of polysaccharide from *Sargassum fusiforme* against human hepatocellular carcinoma HepG2 cells’, *Food and Chemical Toxicology*. Elsevier Ltd, 102, pp. 53–62.
- Feng, L. I. U. et al. (2013) ‘Intraspecific genetic analysis , gamete release performance , and growth of *Sargassum muticum* (Fucales , Phaeophyta) from China *’, *Chineses Journal of Oceanology and Limnology*, 31(6), pp. 1268–1275.
- Ferlay, J. et al. (2010) ‘Estimates of worldwide burden of cancer in 2008: GLOBOCAN 2008’, *International Journal of Cancer*, 127(12), pp. 2893–2917.
- Gany, S. A., Tan, S. C. and Gan, S. Y. (2014) ‘Anti-Neuroinflammatory Properties of Malaysian Brown and Green Seaweeds’, *International Journal of Industrial and Manufacturing Engineering*, 8(11), pp. 1269–1275.
- Ghasemi, F. F. et al. (2016) ‘BIOSORPTION OF MN (II) FROM AQUEOUS SOLUTION BY SARGASSUM HYSTRIX ALGAE OBTAINED FROM THE PERSIAN GULF: BIOSORPTION ISOTHERM AND KINETIC ISSN’, *International Journal of Pharmacy & Technology*, 8(3), pp. 18227–18238.
- Giugliano, D., Ceriello, A. and Esposito, K. (2018) ‘Glucose metabolism and hyperglycemia 1 – 5’, *The American Journal of Clinical Nutrition*, 87(1), pp. 217–222.
- Gordon, M. H. (1990) ‘THE MECHANISM OF ANTIOXIDANT ACTION IN VITRO’, *Food Aantioxidants*, pp. 1–18.
- Gotama, T. L. and Husni, A. (2018) ‘Antidiabetic Activity of *Sargassum hystrix* Extracts in Streptozotocin-Induced Diabetic Rats’, *Preventive Nutrition and food science*, 23(3), pp. 189–195.
- Handayani, D. et al. (2019) ‘Antimicrobial activity screening of endophytic fungi extracts isolated from brown algae *Padina* sp .’, *Journal of Applied Pharmaceutical Science*, 9(03), pp. 9–13.
- Haugan, j H. and Liaaen-Jensen, S. (1994) ‘Algal Carotenoids 54.* Carotenoids of Brown Algae (Phaeophyceae)’, *Biochemical Systematics and Ecology*, 22(1), pp. 31–41.
- Herodez, S. S. et al. (2003) ‘Solvent extraction study of antioxidants from Balm (*Melissa officinalis* L .) leaves’, *Food Chemistry*, 80, pp. 275–282.
- Holdt, S. L. and Kraan, S. (2011) ‘Bioactive compounds in seaweed: functional food applications and legislation’, *journal of applied phycology*, 23(3), pp. 543–597.
- Howard-anderson, J. et al. (2012) ‘Quality of Life , Fertility Concerns , and

- Behavioral Health Outcomes in Younger Breast Cancer Survivors: A Systematic Review', *JNCI Journal of the National Cancer Institute*, 104(5), pp. 386–405.
- I, N., A, A. and R, S. (2016) 'Effects of drying methods , solvent extraction and particle size of Malaysian brown seaweed , *Sargassum* sp . on the total phenolic and free radical scavenging activity', *International Food Research Journal*, 23(4), pp. 1558–1563.
- Jacobsen, C. et al. (2019) 'Source , Extraction , Characterization , and Applications of Novel Antioxidants from Seaweed', *Annual Review of Food Science and Technology*, 10(1), pp. 1–28.
- Johnson, M. et al. (2019) 'The antioxidative effects of bioactive products from *Sargassum polycystum* C . Agardh and *Sargassum duplicatum* J . Agardh against inflammation and other pathological issues', *Complementary Therapies in Medicine*, 46, pp. 19–23.
- Kadam, S. U., Tiwari, B. K. and Donnell, C. P. O. (2015) 'Review Extraction , structure and biofunctional activities of laminarin from brown algae', *International Journal of Food Science & Technology*, 50(1), pp. 24–31.
- Kahl, R. and Kappus, H. (1993) 'Toxikologie der synthetischen Antioxidantien BHA und BHT im Vergleich mit dem natürlichen Antioxidans Vitamin E Regine', *Zeitschrift Fur Lebensmittel-Untersuchung Und-Forschung*, 196(4), pp. 329-338.
- Kang, C. et al. (2010) 'Brown alga *Ecklonia cava* attenuates type 1 diabetes by activating AMPK and Akt signaling pathways', *Food and Chemical Toxicology*. Elsevier Ltd, 48(2), pp. 509–516.
- Katherine, J. et al. (2019) 'Pharmacologic Application Potentials of Sulfated Polysaccharide from Marine Algae', *Polymers*, 11(7), p. 1163.
- Khaled, N., Mawlawi, H. and Asma, C. (2012) 'Antioxidant and Antifungal activities of *Padina Pavonica* and *Sargassum Vulgare* from the Lebanese Mediterranean Coast Naja Khaled , Mawlawi Hiba , Chbani', *Advance in Environmental Biology*, 6(1), pp. 42–48.
- Khalid, S. et al. (2018) 'Therapeutic Potential of Seaweed Bioactive Compounds Compounds', *Seaweed Biomaterials*, pp. 7–25.
- Khan, M. K., Huma, Z.-E. and Olivier, D. (2014) 'A comprehensive review on flavanones, the major citrus polyphenols', *Journal of Food Composition and Analysis*. Elsevier Inc., 33(1), pp. 85–104.
- Khanavi, M. et al. (2010) 'Cytotoxic activity of some marine brown algae against', *Biological Research*, 43(1), pp. 31–37.
- Kim, J., Kyung, T. and Kim, M. (2011) 'The inhibitory effects of ethanol extracts from sorghum , foxtail millet and proso millet on a -glucosidase and a amylase activities', *Food Chemistry*. Elsevier Ltd, 124(4), pp. 1647–1651.
- Kim, S. et al. (2013) 'Anti-inflammatory effect of hexane fraction from *Myagropsis myagroides* ethanolic extract in lipopolysaccharide-stimulated BV-2 microglial cells', *Journal of Pharmacy and Pharmacology*, 65(6), pp. 895 906.
- Kim, S., Baek, S. and Song, K. Bin (2018) 'Physical and antioxidant properties of alginate films prepared from *Sargassum fulvellum* with black chokeberry extract', *Food Packaging and Shelf Life*. Elsevier, 18, pp. 157–163.
- Kimbung, S., Loman, N. and Hedenfalk, I. (2015) 'Clinical and molecular complexity of breast cancer metastases', *Seminars in Cancer Biology*. Elsevier Ltd, 35, pp. 85–95.

- Kodangala, Chandrashekhar Saha, Santanu Kodangala, P. (2010) ‘Phytochemical studies of aerial parts of the plant leucas lavandulaefolia’, *Scholars Research Library*, 2(5), pp. 434–437.
- Kong, Q. et al. (2016) ‘In vitro fermentation of sulfated polysaccharides from E . prolifera and L . japonica by human fecal microbiota’, *International Journal of Biological Macromolecules*. Elsevier B.V., 91, pp. 867–871.
- Kousha, M. et al. (2012) ‘Box – Behnken design optimization of Acid Black 1 dye biosorption by different brown macroalgae’, *Chemical Engineering Journal*. Elsevier B.V., 179, pp. 158–168.
- Kumar, M. S. and Adki, K. M. (2018) ‘Marine natural products for multi-targeted cancer treatment : A future insight’, *Biomedicine & Pharmacotherapy*. Elsevier, 105, pp. 233–245.
- Lee, C. and Han, J. (2012) ‘Hypoglycemic Effect of Sargassum ringgoldianum Extractin STZ-induced Diabetic Mice’, *Preventive Nutrition and food science*, 17(1), pp. 8–13.
- Lee, S. and Jeon, Y. (2013) ‘Anti-diabetic effects of brown algae derived phlorotannins, marine polyphenols through diverse mechanisms’, *Fitoterapia*, 86, pp. 129–136.
- Li, J. et al. (2013) ‘Solvent extraction of antioxidants from steam exploded sugarcane bagasse and enzymatic convertibility of the solid fraction’, *Bioresource Technology*, 130, pp. 8–15.
- Li, Y. et al. (2009) ‘Chemistry Chemical components and its antioxidant properties in vitro : An edible marine brown alga , Ecklonia cava’, *Bioorganic & Medicinal Chemistry*. Elsevier Ltd, 17(5), pp. 1963–1973.
- Liu, L. et al. (2012) ‘Towards a better understanding of medicinal uses of the brown seaweed Sargassum in Traditional Chinese Medicine : A phytochemical and pharmacological review’, *Journal of Ethnopharmacology*. Elsevier, 142(3), pp. 591–619.
- Lobo, V. et al. (2010) ‘Free radicals , antioxidants and functional foods : Impact on human health’, *Pharmacognosy Reviews*, 4(8), pp. 118–126.
- Lorbeer, A. J., Tham, R. and Zhang, W. (2013) ‘Potential products from the highly diverse and endemic macroalgae of Southern Australia and pathways for their sustainable production’, *journal of applied phycology*, 25(3), pp. 717–732.
- Luder, U. H. and Clayton, M. N. (2004) ‘Induction of phlorotannins in the brown macroalga Ecklonia radiata (Laminariales , Phaeophyta) in response to simulated herbivory — the first microscopic study’, *Planta*, 218(6), pp. 928–937.
- Mahadevan, K. (2015) *Seaweeds: a sustainable food source, Seaweed Sustainability*. Elsevier Inc.
- Maheswari, M. U., Reena, A. and Sivaraji, C. (2018) ‘GC-MS, analysis, antioxidant and antibacterial activity of the brown alage, padina tetrastromatica’, *International Journal of Pharmaceutical Sciences and Research*, 9(1), pp. 298–304.
- Makinde, E. A. et al. (2019) ‘Antidiabetic , antioxidant and antimicrobial activity of the aerial part of Tiliacora triandra’, *South African Journal of Botany*, 125, pp. 337–343.
- Maneesh, A., Chakraborty, K. and Makkar, F. (2016) ‘Pharmacological Activities Of Brown Seaweed Sargassum Wightii (Family Sargassaceae) Using Different In Vitro Models’, *International Journal of Food Properties*,

- 20(4), pp. 931–945.
- Manivannan, K. *et al.* (2011) ‘Antimicrobial potential of selected brown seaweeds from Vedalai coastal waters , Gulf of Mannar’, *Asian Pacific Journal of Tropical Biomedicine*. Asian Pacific Tropical Biomedical Magazine, 1(2), pp.114–120.
- Martin, A. and Weber, B. L. (2000) ‘Genetic and Hormonal Risk Factors in Breast Cancer’, *Journal of the National Cancer Institue*, 92(14), pp. 1126–1135.
- Martins, C. D. L. *et al.* (2013) ‘Antioxidant properties and total phenolic contents of some tropical seaweeds of the Brazilian coast’, *journal of applied phycology*, 25, pp. 1179–1187.
- Mashjoor, S. *et al.* (2016) ‘Cytotoxicity and antimicrobial activity of marine macro algae (Dictyotaceae and Ulvaceae) from the Persian Gulf’, *Cytotechnology*. Springer Netherlands, 68(5), pp. 1699–1708.
- Meyer, B. N. *et al.* (1982) ‘Brine Shrimp : A Convenient General Bioassay for Active Plant Constituents’, *Planta Medica*, 45(5), pp. 31–34.
- Milledge, J. J. and Harvey, P. J. (2016) ‘Golden Tides : Problem or Golden Opportunity ? The Valorisation of Sargassum from Beach Inundations’, *Journal of Marine Science and Engineering*, 4(3), pp. 1–19.
- Mohamed, S., Hashim, S. N. and Rahman, A. (2012) ‘Seaweeds: A sustainable functional food for complementary and alternative therapy’, *Trends in Food Science & Technology*. Elsevier Ltd, 23(2), pp. 83–96.
- Mohsen, S. M. and Ammar, A. S. M. (2009) ‘Total phenolic contents and antioxidant activity of corn tassel extracts’, *Food Chemistry*, 112, pp. 595–598.
- Mohsin, S., Mahadevan, R. and Kurup, G. M. (2013) ‘Free-radical-scavenging activity and antioxidant effect of ascophyllum from marine brown algae Padina tetrastromatica’, *Biomedicine & Preventive Nutrition*. Elsevier Masson SAS, 4(1), pp. 75–79.
- Motshakeri, M. *et al.* (2012) ‘Sargassum polycystum reduces hyperglycaemia , dyslipidaemia and oxidative stress via increasing insulin sensitivity in a rat model of type 2 diabetes’, *Jouran of the Science of Food and Agriculture*, 93(7), pp. 1772–1778.
- Moubayed, N. M. S. *et al.* (2016) ‘Antimicrobial , antioxidant properties and chemical composition of seaweeds collected from Saudi Arabia (Red Sea and Arabian Gulf)’, *Saudi Journal of Biological Sciences*. The Authors, 24(1), pp. 162 169.
- Mwangi, G. G. *et al.* (2014) ‘Brine shrimp cytotoxicity and antimalarial activity of plants traditionally used in treatment of malaria in Msambweni district’, *Pharmaceutical Biology*. Informa Healthcare USA, Inc, 00(00), pp. 1–6. Available at: <http://dx.doi.org/10.3109/13880209.2014.935861>.
- Nagarajan, S. and Mathaiyan, M. (2015) ‘Emerging Novel Anti HIV biomolecules from marine Algae :An overview’, *Journal of Applied Pharmaceutical Science*, 5(9), pp. 153–158.
- Narayani, S. *et al.* (2016) ‘Cytotoxic effect of fucoidan extracted from Sargassum cinereum on colon cancer cell line HCT-15’, *International Journal of Biological Macromolecules*. Elsevier B.V., 91, pp. 1215–1223. Available at: <http://dx.doi.org/10.1016/j.ijbiomac.2016.06.084>.
- Narayani, S. S. *et al.* (2019) ‘In vitro anticancer activity of fucoidan extracted from Sargassum cinereum against Caco-2 cells’, *International Journal of Biological Macromolecules*. Elsevier B.V., 138, pp. 618–628.

- Ncube, N. S., Afolayan, A. J. and Okoh, A. I. (2008) ‘Assessment techniques of antimicrobial properties of natural compounds of plant origin: current methods and future trends’, *African Journal of Biotechnology*, 7(12), pp. 1797–1806.
- Nimse, S. B. and Pal, D. (2015) ‘Free radicals, natural antioxidants, and their reaction mechanisms’, *RSC Advances*. Royal Society of Chemistry, 5(35), pp. 27986–28006.
- O’Sullivan, L. et al. (2010) ‘Prebiotics from Marine Macroalgae for Human and Animal Health Applications’, *Marine Drugs*, 8(7), pp. 2038–2064.
- Palanisamy, S. et al. (2017) ‘Isolation of fucoidan from *Sargassum polycystum* brown algae: Structural characterization, in vitro antioxidant and anticancer activity’, *International Journal of Biological Macromolecules*. Elsevier B.V., 102, pp. 405–412.
- Palanisamy, S. K. and Rajendran, N. M. (2017) ‘Natural Products Diversity of Marine Ascidiarians (Tunicates ; Asciidae) and Successful Drugs in Clinical Development’, *Natural Products and Bioprospecting*. Springer Berlin Heidelberg, 7(1), pp. 1–111.
- Palanisamy, S., Vinotha, M. and Marudhupandi, T. (2017) ‘Isolation of fucoidan from *Sargassum polycystum* brown algae: Structural characterization , in vitro antioxidant and anticancer activity’, *International Journal of Biological Macromolecules*. Elsevier B.V., 102, pp. 405–412.
- Park, M. H. and Han, J. S. (2012) ‘Hypoglycemic Effect of *Padina arborescens* Extract in Streptozotocin-induced Diabetic Mice’, *Preventive Nutrition and Food Science*, 17(4), pp. 239–244.
- Park, M. H., Nam, Y. H. and Han, J. (2015) ‘*Sargassum coreanum* extract alleviates hyperglycemia and improves insulin resistance in db / db diabetic mice’, *Nutrition Research and Practice*, 9(5), pp. 472–479.
- Patil, S. B., Kodliwadmath, M. V and Kodliwadmath, S. M. (2007) ‘STUDY OF OXIDATIVE STRESS AND ENZYMATIC ANTIOXIDANTS IN NORMAL PREGNANCY’, *Indian Journal of Clinical Biochemistry*, 22(1), pp. 135–137.
- Peng, Y. et al. (2019) ‘Biomedicine & Pharmacotherapy Antidiabetic and hepatoprotective activity of the roots of *Calanthe limbata* Franch’, *Biomedicine & Pharmacotherapy*, 111(76), pp. 60–67.
- Perez, E. A. et al. (2012) ‘Four-Year Follow-Up of Trastuzumab Plus Adjuvant Chemotherapy for Operable Human Epidermal Growth Factor Receptor 2 Positive Breast Cancer : Joint Analysis of Data From NCCTG N9831 and NSABP B-31’, *Journal of Clinical Oncology*, 29(25), pp. 3366–3373.
- Prakash, O., Kumar, A. and Kumar, P. (2013) ‘Anticancer Potential of Plants and Natural Products : A Review’, *American Journal of Pharmacological Sciences*, 1(6), pp. 104–115.
- Raghavendran, H. B. et al. (2007) ‘EFFICACY OF SARGASSUM POLYCYSTUM (PHAEOPHYCEAE) SULPHATED POLYSACCHARIDE AGAINST PARACETAMOL-INDUCED DNA FRAGMENTATION AND MODULATION OF MEMBRANE-BOUND PHOSPHATASES DURING TOXIC HEPATITIS’, *Clinical and Experimental Pharmacology and Physiology*, 34(3), pp. 142–147.
- Raguz, S. and Yagu, E. (2008) ‘Resistance to chemotherapy : new treatments and novel insights into an old problem’, *British Journal of Cancer*, 99(3), pp. 387-391.

- Rajauria, G., Foley, B. and Abu-ghannam, N. (2016) ‘Identification and characterization of phenolic antioxidant compounds from Brown Irish Seaweed *Himanthalia elongata* using LC-DAD-ESI-MS/MS’, *Innovative Food Science and Emerging Technologies*. Elsevier B.V., 37, pp. 261–268.
- Ren, B. *et al.* (2017) ‘Optimization of microwave-assisted extraction of *Sargassum thunbergii* polysaccharides and its antioxidant and hypoglycemic activities’, *Carbohydrate Polymers*. Elsevier Ltd., 173, pp. 192–201.
- Rioux, L., Turgeon, S. L. and Beaulieu, M. (2007) ‘Characterization of polysaccharides extracted from brown seaweeds’, *Carbohydrate Polymers*, 69(3), pp. 530–537.
- Santos, S. A. O. *et al.* (2015) ‘Chlorophyta and Rhodophyta macroalgae: A source of health promoting phytochemicals’, *Food Chemistry*. Elsevier Ltd, 183, pp.122–128.
- Shang qingsen, Shan xinidi, Cai chao, Hao Jiejie, Li Guoyun, Y. G. (2016) ‘Dietary fucoidan modulates the gut microbiota in mice by increasing the abundance of *Lactobacillus* and *Ruminococcaceae*’, *Food & Function*, 7(7), pp. 3224–3232.
- Shao, P., Chen, X. and Sun, P. (2015) ‘Improvement of antioxidant and moisture preserving activities of *Sargassum horneri* polysaccharide enzymatic hydrolyzates’, *International Journal of Biological Macromolecules*. Elsevier B.V., 74, pp. 420–427.
- Shori, A. B. (2015) ‘Review Screening of antidiabetic and antioxidant activities of medicinal plants’, *Journal of Integrative Medicine*. Journal of Integrative Medicine Editorial Office. E-edition published by Elsevier (Singapore) Pte Ltd. All rights reserved., 13(5), pp. 297–305.
- Silva, T. M. A. *et al.* (2005) ‘Partial characterization and anticoagulant activity of a heterofucan from the brown seaweed *Padina gymnospora*’, *Brazilian Journal of Medical and Biological Research*, 38(4), pp. 523–533.
- Sokolova, R. V., Ermakova, S. P. and Awada, S. M. (2011) ‘COMPOSITION , STRUCTURAL CHARACTERISTICS, AND ANTITUMOR PROPERTIES OF POLYSACCHARIDES FROM THE BROWN ALGAE *Dictyopteris polypodioides* AND *Sargassum sp .*’, *Chemistry of Natural Compounds*, 47(3), pp. 329–334.
- Soobrattee, M. A., Neergheen, V. S. and Luximon-ramma, A. (2005) ‘Phenolics as potential antioxidant therapeutic agents : Mechanism and actions’, *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis*, 579(1–2), pp. 200–213.
- Suresh, V. *et al.* (2013) ‘Separation , purification and preliminary characterization of sulfated polysaccharides from *Sargassum plagiophyllum* and its in vitro anticancer and antioxidant activity’, *Process Biochemistry*. Elsevier Ltd, 48(2), pp. 364–373.
- Susilowati, F. *et al.* (2019) ‘IN VITRO CYTOTOXIC ANTICANCER POTENTIAL OF BIOACTIVE FRACTION ISOLATED FROM INDONESIAN TIDAL SPONGE *CALTHROPELLA SP .*’, *Asian Journal of Pharmaceutical and Clinical Research*, 12, pp. 380–383.
- Szablewski, L. (2001) ‘Glucose Homeostasis – Mechanism and Defects’, *Damages and Treatments*, pp. 227–256.
- Tannoury, M. Y. *et al.* (2016) ‘Evaluation of Cytotoxic Activity of *Sargassum vulgare* From the Lebanese Coast Against Jurkat Cancer Cell Line’, *Journal of Applied Pharmaceutical Science*, 6(06), pp. 108–112.

- Tavani, A. et al. (2003) ‘Carbohydrates, dietary glycaemic load and glycaemic index, and risk of acute myocardial infarction’, *Heart*, 89, pp. 722–727.
- Tomeh, M. A., Hadianamrei, R. and Zhao, X. (2019) ‘A Review of Curcumin and Its Derivatives as Anticancer Agents’, *International Journal of Molecular Sciences*, 20(5), pp. 1–26.
- Vaikundamoorthy, R. et al. (2018) ‘Structural characterization and anticancer activity(MCF7 and MDA-MB-231) of polysaccharides fractionated from brown seaweed *Sargassum wightii*’, *International Journal of Biological Macromolecules*. Elsevier B.V., 111, pp. 1229–1237.
- Val, Antonio , G, D. et al. (2001) ‘Screening of antimicrobial activities in red , green and brown macroalgae from Gran Canaria (Canary Islands , Spain)’, *Interational Microbioal*, 4, pp. 35–40.
- Venkatesan, M. et al. (2019) ‘Antioxidant , anticoagulant and mosquitocidal properties of water soluble polysaccharides (WSPs) from Indian seaweeds’, *Process Biochemistry*. Elsevier, 84, pp. 196–204.
- Vijayabaskar, P., Vaseela, N. and Thirumaran, G. (2012) ‘Potential antibacterial and antioxidant properties of a sulfated polysaccharide from the brown marine algae *Sargassum swartzii*’, *Chinese Journal of Natural Medicines*. China Pharmaceutical University, 10(6), pp. 421–428.
- Vinayak, R. C., Sabu, A. S. and Chatterji, A. (2011) ‘Bio-Prospecting of a Few Brown Seaweeds for Their Cytotoxic and Antioxidant Activities’, *Evidence Based Complementary and Alternative Medicine*, pp. 1–9.
- Viswanathan, M., Arumugam, S. and Thangavel, B. (2016) ‘In vitro anticancer activity of silver nanoparticle synthesized by Escherichia coli VM1 isolated from marine sediments of Ennore southeast coast of India Maharani’, *Enzyme and Microbial Technology*. Elsevier Inc., 95, pp. 146–154.
- Vogelstein, B. and Kinzler, K. W. (2004) ‘Cancer genes and the pathways they control’, *Nature Medicine*, 10(8), pp. 789–799.
- Wen, Z. S., Xiang, X. W., Jin, H. X., Guo, X. Y., Liu, L. J., Huang, Y. N., OuYang, X. K., & and Qu, Y. L. (2016) ‘Composition and anti-inflammatory effect of polysaccharides from *Sargassum horneri* in RAW264.7 macrophage.pdf’, *Internaltional Journal of Biological Macromolecules*, 88, pp. 403–413.
- Wogan, G. N. et al. (2004) ‘Environmental and chemical carcinogenesis’, *Seminars in Cancer Biology*, 14(6), pp. 473–486.
- YAMAGUCHI, T., TAKAMURA, H., MATOBA, T., & TERAO, J. (1998) ‘HPLC Method for Evaluation of the Free Radical-scavenging Activity of Foods by Using 1,1-Diphenyl-2-picrylhydrazyl.pdf’, *Bioscience, Biotechnology, and Biochmistry*, 62(6), pp. 1201–1204.
- Yang, C. et al. (2017) ‘The Antidiabetic Activity of Brown Seaweed *Sargassum confusum* Polysaccharide Hydrolysates in Insulin Resistance HepG2 Cells in vitro’, *Research Journal of Biotechnology*, 12(8), pp. 1–9.
- Yang, C. et al. (2019) ‘Anti-diabetic e ff ect of oligosaccharides from seaweed *Sargassum confusum* via JNK-IRS1 / PI3K signalling pathways and regulation of gut microbiota’, *Food and Chemical Toxicology*. Elsevier, 131, p. 110562.
- Ye, H. et al. (2008) ‘Purification , antitumor and antioxidant activities in vitro of polysaccharides from the brown seaweed *Sargassum pallidum*’, *Food Chemistry*, 111(2), pp. 428–432.
- Zaharudin, N., Staerk, D. and Dragsted, L. O. (2019) ‘Inhibition of α -glucosidase activity by selected edible seaweeds and fucoxanthin’, *Food Chemistry*.

- Elsevier,270, pp. 481–486. Available at
<https://doi.org/10.1016/j.foodchem.2018.07.142>.
- Zoysa, M. De and Nikapitiya, C. (2008) ‘Anticoagulant activity of sulfate polysaccharide isolated from fermented brown seaweed *Sargassum fulvellum*’, *journal of Applied Phycology*, 20(1), pp. 67–74.
- Zvyagintseva, T. N. et al. (2003) ‘Water-soluble polysaccharides of some far eastern brown seaweeds . Distribution , structure , and their dependence on the developmental conditions’, *Journal of Experimental Marine Biology and Ecology*, 294, pp. 1–13.