

## DAFTAR PUSTAKA

- Al-Hajj, N.Q., M. Algabr, H. R. Syarif, H. Wang. 2016. In Vitro and in Vivo Evaluation of Antidiabetic Activity of Leaf Essential Oil of *Pulicaria Inuloides*-Asteraceae. *Journal of food and nutrition research*. 4(7):461-470.
- Apostolidis, E., Y.I. Kwon, Shetty K. 2006. Potential of Cranberry-based Herbal Synergies for Diabetes and Hypertension Management. *Asia Pac J Clin Nutr*. 15: 41-433.
- Arif, R. S. dan Tukiran. 2015. Identifikasi Senyawa Fenolik Hasil Isolasi dari Fraksi Semi Polar Ekstral Etil Asetat Kulit Batang Tumbuhan Nyiri Batu (*Xylocarpus moluccensis*). *UNESA. Journal of Chemistry*. 4(2): 105-110.
- Aziz, S. 2014. Senyawa Alam Metabolit Sekunder Teori, Konsep, dan Teknik Pemurnian. Deepublish. Yogyakarta. 1-113.
- Azizah, R.N. 2018. Isolasi dan Identifikasi Senyawa inhibitor Enzim  $\alpha$ -Glukosidase dalam Fraksi kloroform dari Ekstrak Rumput Laut *Sargassum hystrix*. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Azizi, W.A. 2018. Isolasi dan Identifikasi Senyawa inhibitor Enzim  $\alpha$ -Glukosidase dalam Fraksi Metanol dari Ekstrak Rumput Laut *Sargassum hystrix*. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Azwadina, N.N. 2015. A Review on Extraction Methods Use in Medicinal Plants, Principal, Strength and Limitation. *Med Aromat Plants*. 4:196.
- Bajpai, V. K., R. Majumder and P. Jae Gyu. 2016. Isolation and purification of plant secondary metabolites using column-chromatographic technique. *Bangladesh J Pharmacol*. 2016; 11: 844-848.
- Bele, A.A dan A. Khale. 2017. A Overview on Thin Layer Chromatography. *International Journal Pharmaceutical Sciences*. 2: 256-267.
- Bennet, P. 2008. Epidemiology of Type 2 Diabetes Melitus. *Fundamentals and Clinical Text*. 43(1):7-544.
- Berk, Z. 2013. Extraction: Chapter 11. *Journal Process Engineering and Technology: 2n Edition*. 287-309.
- Budhiyanti, S.A., S. Raharjo, D.W. Marseno, I. B. Lelana. 2012. Antioxidant Activity of Brown Algae *Sargassum* species Extract from Coastline of Java Island. *American Journal of Agricultural and Biological Sciences*. 7(3):337-346.
- Channabasava, G. M., Chandarappa C.P., Sadananda T.S. 2014. In Vitro Antidiabetic Activity of Three Fraction of Methanol Extract of *Loranthus micranthus*, Identification of Phytoconstitutes by GC-MS and Possible Mechanism Identified by GEMDOCK Method. *Asian Journal of Biomedical and Pharmaceutical Sciences*. 4(34):34-41

- Chaudhury, A., Chitaranjan D., Vijaya Sena R.D., Shashank K., Aditya C. 2017. Clinical Review of Antidiabetic Grugs: Implications for Type 2 Diabetes Melitus Management. *Frontiers in Endocrinology*.8(6).
- Cho, N.H., J.E. Shaw., S.Karuranga, Y. Huang, J.D. da R. Fernandes, A.W. Ohlorogge, B. Malanda. 2018. IDF Diabetes Atlas: Global Estimates of Diabetes Prevalence for 2017 and Projection for 2045. *Diabetes Research and Clinical Practice*. 138:271-281.
- Dewi, R.T., M.I. Yetty, M. Hanafi, L.B.S. Kardono, A. Marisa, D.D. Indah., dan D.S.B. Sofna. 2007. Inhibitory effect of koji *Aspergillus terreus* on alfa-glucosidase activity and postprandial hyperglycemia. *Pakistan journal of Biological Science*. 10(18) : 3131-3135.
- Dipiro, J.T., R.L. Talbert, and G.C. Yee. 2005. *Pharmacotherapy a phtophysiologic approach* 6<sup>th</sup> ed. McGraw Hill. New York. 1333-1367.
- Dong, H., N. Wang, L. Zhao, F. Lu. 2012. Barberine in treatment of type 2 diabetes melitus: a systemic review and meta-analysis. *Evidence-Based Complementarry and Alternative Medicine*.1-12.
- El-Gizawy, H.E. dan M.A. Hussein. 2015. Fatty acids profile, nutritionl value, antidiabetic andantioxidant activity of the fixed oil of *Malva parvifloragrowing* in Egypt. *International Journal of Phytomedicine*. 7(2):219-230.
- Fakayode, O. 2014.Impacts of an Invadive Seaweed *Sargassum hystrix* var. fluitans on the Fishries and Other Economic Implications for the Nigerian Coastal Waters.IOSR Journal of Agriculture and Veterinary Science. Vol 7(7):01-06.
- Fatimah, R.N. 2015. Diabetes Melitus Tipe 2. *J. Majority*. 4(5): 93-101
- Febrinda, A. E., M. Astawan, T. Wresdiyati, dan N. D. Yuliana. 2013. Kapasitas antioksidan dan inhibitor alfa glukosidase ekstrak umbi bawang dayak. *J. Teknol. dan Industri Pangan*. Vol. 24 (2): 161-167
- Feng J., X.W.Yang, R.F.Wang. 2011. Bio-assay guided isolation and identification of a-glucosidase inhibitors from the leaves of *Aquilaria sinensis*. *Phytochemistry*. 72(2): 242–247.
- Firdaus, M. dan A. A. Prihanto. 2014.  $\alpha$ -Amylase and  $\alpha$ -Glukosidase Inhibition by Brown Seaweed (*Sargassum* sp.) Extract. *Journal of Advanced Applied Scientific Research*.1(8): 2454-3225.
- Firdaus, M., M.Astawan, D.Muchtadi, T.Wresdyani, S. Waspadji, S.K.Setyawati. 2010. Pengaruh ekstrak rumput laut cokelat terhadap fungsi endotelium aorta tikus diabetes melitus. *Majalah Farmasi Indonesia*. 21:151-157.

- Fitramadan, L. 2013. Identifikasi Senyawa dalam Fraksi Aktif Ekstrak Rumput Laut Coklat *Sargassum hystrix* Sebagai Inhibitor Enzim  $\alpha$ -Glukosidase. Universitas Gadjah Mada. Yogyakarta.[Tesis].
- Freile-Preglin, Y. dan D. Robledo. 2013. Bioactive Phenolic Compounds from Algae, in Bioactive Compounds from Marine Foods: Plant and Animal Sources. John Wiley & Sons Ltd. Chichester, UK.
- Funke I.,and M.F. Melzing. 2006. Traditionally used plants in diabetes therapy – phytotherapeutics as inhibitor of alpha amylase activity. Rev Bras Farmacogn. 16:1-5.
- Garson, M.J. 1989. Marine natural products. Natural Product Reports. 6:143–70
- Gomathi R. dan L, Elango V. 2015. Identification of bioactive components and its biological activities of *Evolvulus alsinoides* Linn: A GC-MS study. International Journal of Chemical Studies 2015; 3(1): 41-44.
- Gotama, T. L., A. Husni, and Ustadi. 2018. Antidiabetic Activity of *Sargassum hystrix* Extracts in Streptozotocin-Induced Diabetic Rats. Prev. Nutr. Food Sci. 23(3):189-195.
- Gu, T. 2000. Liquid-liquid partitioning methods for bioseparations. Separation Science and Technology. Vol. 2: 329-364.
- Handa, S.S., S.P.S. Khanuja, G. Longo, D.D.Rakesh. 2008. Extraction Technologies for Medicinal and Aromatic Plants. United Nations Industrial Development Organization and International Centre of Science and High Technology. Italy. 1<sup>st</sup> edition, page: 66.
- Handayani, I.A.M. 2017. Distribusi kurkumin dan kurkuminoid pada temu hitam (*Curcuma aeruginosa* Roxb) berdasarkan perbedaan bagian rimpang dan umur tanaman. Universitas Gadjah Mada. [Skripsi]
- Hanhineva, K., R. Törrönen, I. Bondia-Pons, J. Pekkinen, M. Kolehmainen, H. Mykkänen and K. Poutanen. 2010. Impact of Dietary Polyphenols on Carbohydrate Metabolism. Int. J. Mol. Sci. 11: 1365-1402.
- Hardoko, A. Febriani, T. Siratantri. 2015. Invitro Antidiabetic Activities of Agar, Agarosa, and Agaropectin from *Gracilaria gigas* Seaweed. JPHPI. 18(2):128-139.
- Harwood, L.M. dan C.J. Moody. 1989. Experimental Organic Chemistry. Principles and Practise. Blackwell. Scientific Publications, Oxford. UK.
- Heriyanto, A. D. Juliadiningtyas, Y. Shioi, L. Limantara and T. H. P. Brotosudarmo. 2017. Analysis of Pigment Composition of Brown Seaweeds Collected from Panjang Island, Central Java, Indonesia. Philippine Journal of Science 146 (3): 323-330.
- Hidayah, E.N. 2017. Analisis metabolomik padi hitam (*Oryza sativa* L.) setelah infeksi *Xanthomonas oryzae* pv. *oryzae*. Universitas Gadjah Mada. [Tesis].

- Hoffman, R.M. 2013. Carbohydrates: Hydrolitic digestion. *Equine Applied and Clinical Nutrition*.156-157.
- Husni, A., D. R. Putra dan I.Y. Bambang Lelana. 2014. Aktivitas Antioksidan *Padina* sp. padaBerbagai Suhu dan Lama Pengeringan. *Jurnal Pascapanen dan Bioteknologi Perikanan* 9 (2): 165–173.
- Husni, A., R. Wijayanti, Ustadi. 2014. Inhibitory Activity of  $\alpha$ -amylase and  $\alpha$ -glucosidase by *Padina pavonica* Extracts. *Journal of Biological Sciences*. 14(8):512-520.
- Isley, W. L. dan M. E. Molith. 2005. Type 1 Diabetes. *The Journal of Clinical Endocrinology and Metabolism*. 90(1): E2
- Iwai, K. 2008. Antidiabetic and Antioxidant Effect of Polyphenols in Brown Algae *Ecklonia stolonifera* in Genetically Diabetic KK-A9y Mice.Plant Food and Human Nutrition. Vol. 63:163-169.
- Judge, N., dan B. Svensson. 2006 Review proteinaceous iinhibitor of carbohydrate active enzymes in cereals: implication in agriculture, cereal processing an nutrition. *J. Sci. Food Agric*. 22-5142.
- Kadir, S., P.Darmaji, C. Hidayat, Supriyadi.2014. Sifat Fisika dan Kimiawi Komponen Asap Cair Tempurung Kelapa Hasil Adsorpsi pada Arang Aktif. *Jurnal Agroland*. 21(1):7-14.
- Kazakovich, Y. dan L.LoBruttoo. 2007. HPLC for Pharmaceutical Scientist. John Wiley & Sons Inc. Hoboken.
- Keharom, S., R. Mahachai dan S. Chanthai. 2016. The Optimization Study of amylase Activity based on Central Composite Design-Response Surface Methodology by Dinitrosalicylic Acid Method. *International Fooof Research journal*. 23(1):10-17.
- Kim, Su-Nam, Woojung Lee, Gyu-Un Bae, Yong Kee Kim. 2012. Anti-diabetic and hypolipidemic effects of *Sargassum yezoense* in db/db mice. *Biochemical and Biophysical Research Communications* 424: 675–680
- Kumaar, S., K. Jyotirmayee, M. Sarangi. 2013. Thin Layer Chromatography: A Tool of Biotechnology for Isolation of Compound from Medicinal Plant. *Int. J. Phar. Rev. Res*. 18(1):126-132.
- Kwon Y.I., D.A.Vatten, Shetty K. 2006 Clonal herbs of Lamiaceae Species Against Diabetes and Hypertension. *Asia Pac J Clin Nutr*. 15: 18-107.
- Li, L., Q. Wang, Y. Yang, G. Wu, X. Xin and H.A. Aisa. 2012. Chemical Components and Antiiabetic Activity of Essential Oils Obtained by Hydrodistillation and Three Solvent Extraction Metods from *Carthamus tictorius* L. *Accta Chromatographica*. 24(4):653-665.

- Lilian, U.T. 1994. Potential Health Benefits and Problems associated with Antinutrients in Foods. *Food research International*. 93:963-969.
- Marsham, S., G.W.Scott, M.L.Tobin. 2007. Comparison of nutritive chemistry of a range of temperate seaweeds. *Food Chem.* 100, 1331–1336.
- Mattio L, C.E.Pyri. 190 years of *Sargassum* taxonomy, facing the advent of DNA phylogenies. *Bot Rev.* 77:31–70.
- Maulana, M. 2009. Mengenal diabetes melitus: Panduan praktis menanganani penyakit kencing manis. Katahati. Yogyakarta.
- Mayur, B., S. Sandesh, S. Shruti, S. Sung-Yum. 2010. Antioxidant and  $\alpha$ -glucosidase inhibitory properties of *Carpesium abrotanoides* L, *Medicinal Plants Research.* 4 (15) 1547-1553.
- Michalik, L., J. Auwerx, J.P. Berger, V.K. Chatterjee, C.K. Glass, F.J. Gonzalez, P.A. Grimaldi, T. Kadowaki, M.A. Lazar, S. O’Rahilly, C.N. Palmer, J. Plutzky, J.K.Reddy, B.M. Spiegelman, B. Staels, W. Wahli. 2006. Peroxisome proliferator-activated receptors. *International Union of Pharmacology LXI.* 58: 726–741
- Murata, M. and J. Nakazoe. 2001. Production and use of marine algae in Japan. *Japan Agricultural Research Quarterly,* 35:281–290
- Narayani, S.S., S. Saravan, S. Bharathiaraja dan S. Mahendran. 2016. Extraction, Partially Purification and Study on Antioxidant Property of Fucoxanthin from *Sargassum cinereum* J. Agardh. *Journal of Chemical and Pharmateutical Research.* 8(3):610-616.
- Noryawati, M., B. Widiyati, L. Ocktreya dan S. Rahayu. 2013. Antidiarrheal activity of apus Bamboo (*Gigantochloa apus*) leaf Extract and its Bioactive Compunds. *American J. Microbiol.* 4(1):108.
- Nurfahmi, A. R., A. Husni and A. Isnansetyo. 2018. Effect of *Sargassum hystrix* Powder on the Biochemical Profile of Diabetic Wistar Rats. *Pak. J. Nutr.* 17(5):248-254.
- Nuria, M. C., Z. Chabiba, S. Banu, R. F. Fithria. 2014. Penelusuran Potensi Fraksi N-heksan dan Etil Asetat dari Ekstrak Metanol Daun Gugur Ketapang (*terminalia catappa* l.) Sebagai Antidiare. *Prosiding Seminar Nasional “Perkembangan Terbaru Pemanfaatan Herbal sebagai Agen Preventif pada Terapi Kanker”.* 163-173
- Offermanns, S., dan W. Rosenthal. 2008. *Encyclopedia Molecular Pharmacology* 2nd edition. Springer. New York.
- Olokoba, B. A., O.A.Olokoba, dan L.B.Olokoba. Type 2 Diabetes Melitus: A Review of Current Trends. *Oman Medical Journal.* 27(4):269-273.

- Pak, W.M., K-B-W.Ri Kim, M.J. Kim, J.Y. Cho, and D. H. Ahn. 2015. Inhibitory Effect of Hexane Fraction from *Myagropsis myagroides* on Pancreatic  $\alpha$ -Amylase In Vitro. *Journal Microbiol. Biotechnol.* 25(3):328–333.
- Pandey, A., and S. Tripathi. 2014. Concept of standarization, extraction and pre phytochemical screening strategies for herbal drug. *Journal of Pharmacognosy and Phytochemistry.* 2(5): 115-119.
- Park, J. E., J.H.Lee., dan J.S. Han. 2017. *Sargassum yezoense* Extract Inhibitor Carbohydrate Digestive Enzymes In Vitro and Alleviates Postprandial Hyperglycemia in Diabetic Mice. *Prev. Nutr. Food Sci.* 22(3):166-171.
- Patil, P., S. Mandal, S. K. Tomar, S. Anand. 2015. Food protein-derived bioactive peptides in management of type 2 diabetes. *Eur J Nutr.* 54(6): 863-880.
- Perez, E.R., J.A. Knapp, C. K. Horn, S.L. Stillman, J.E. Evans, and D.P. Arsfen. 2016. Comparison of LC MS and GC-MS Analysis of Benzodiazapine Compunds Included in The Drug Demand Reduction Urinalysis Program. *J. Anal. Toxicol.* 40(3): 201-207.
- Podungge, A., L.J. Damongilala, H. W. Mewengkang. 2018. Kandungan Antioksidan pada Rumput Laut *Eucheuma spinosum* yang Diekstrak dengan Metanol dan Etanol. *Jurnal Media Teknologi Hasil Perikanan.* 6(1):197-201.
- Rachman, S.D., Z. Mukhtari, R. Ukun M.S. Soedjanaatmaja. 2017. Alga Merah (*Gracilariacoronopifolia*) sebagai Sumber Fitohormon Sitokinin yang Potensial. *Chimica et Natura Acta.* 5(3):124-131
- Rajauria, G.. 2018. Optimization and Validation of Reverse Phase HPLC Method for Qualitative and Quantitative Assesment of Polyphenols in Seaweed. *Journal of Pharmateucal and Biomedical Analysis.* 148:230-237.
- Rathmann W., G. Giani. 2004. Global prevalence of diabetes: estimates for the year 2000 and projections for 2030, *Diabetes Care.* 27(10): 2568–2569.
- Rohn, S., H.M.Rawel and J.Kroll. 2002. Inhibitory effects of plant phenols on the activity of selected enzymes. *Journal of Agricultural Food Chemistry.* 50: 3566-3571.
- Rosak, C. dan G. Mertes. 2012. Critical evaluation of the role of acarbose in treatment of diabetes: patient consideration. *Diabetes Metab Syndr Obes.* 5:357-367.
- Rosert, J. 2001. Drug-induced Acute Intertitial Nephritis. *Nephrol Dial Transplant.* 21(7):1994-1995.
- Samudra A. G., B. Dewi, A. E. Nugroho, A. Husni. 2015. Aktivitas Inhibisi  $\alpha$ -Amilase Ekstrak Alginat dan Senyawa Polifenol dari *Sargassum hystrix*. *Prosiding Seminar Nasional & Workshop “Perkembangan Terkini Sains Farmasi & Klinik 5”*. Padang, 6-7 November 2015. 338-343.

- Sankalia, M.G., Mashru, R.C., Sankalia, J.M., Sutariya, V.B. 2006. Stability improvement of alpha-amylase entrappe in kappa-carrageenan beads: physicochemical characterization and optimization using composite index. *International Journal of Pharmaceutics*. 312:1–14.
- Sankalia, M.G., Mashru, R. C., Sankalia, J.M., Sutariya, V.B. 2007, Reversed chitosan–alginate polyelectrolyte complex for stability improvement of alpha-amylase: Optimization and physicochemical characterization. *Journal of Pharmaceutics and Biopharmaceutics*. 65:215–232.
- Sasidharan, S., Y. Chen, D. Saravanan, K.M. Sundram, dan L. Yoga Latha. 2010. Extraction, isolation and characterization of bioactive compounds from plants extracts. *African Journal Traditional Complement Alternatif Medical*. 8(1):1-10.
- Save, S.A., R. S. Lokhande, A. S. Chowdhary. 2015. Determination of 1, 2-Benzenedicarboxylic acid, bis (2-ethylhexyl) ester from the twigs of *Thevetia peruviana* as a Colwell Biomarker. *Journal of Innovations in Pharmaceutics and Biological Sciences*. Vol 2 (3): 349-362.
- Selvaraj, S. and S.Palanisamy. 2014. Investigations on the anti-diabetic potential of novel marineseaweed *Sargassum longiotoma* against alloxan-induced diabetesmelitus: A pilot study. *Bangladesh J Pharmacol*. 9: 194-197.
- Shah, S.B., L. Sartaj, F. Ali, S.I. Ali Shah, M.T. Khan. 2018. Plant Extracts are the Potential Inhibitor of amilase: a review. *MOJ Bioequiv Availab*. 5(5):270-273.
- Sharifuddin, Y., Y.X. Chin, P. E. Lim, and S.M. Phang. Potential Bioactive Compounds from Seaweed for Diabetes Management. *Mar. Drugs* vol.13: 5447-5491.
- Shermaa, J. dan B. Fried. 1987. Chapter 2 Preparative Thin Layer Chromatography. *Journal of Chromatography Library*. Vol. 38: 105-127.
- Singh, I.P., J. Sidana, P. Bansal, W. J. Foley. 2006. Phloglucinol compounds on Therapeutic Interest: Global Patent and Technology Status. *Expert. Opin. Ther. Patents*. 19(6): 847-851.
- Song, M.K., I.K. Hwang, M.J. Rosenthal, D.M. Harris, D.T. Yamaguchi, I. Yip, V.L. Go. 2003. Ntidiabetic Actions of Arachidonic Acid and Zinc in Genetically Diabetic Goto-Kakizaki Rats. *Metabolism*. 52(1):7-12.
- Souza, P.M., P.M. Sales, L.A. Simeoni, E.C. Silva, D. Silveira, P.O. Magalhães. 2012. Inhibitory Activity of  $\alpha$ -Amylase and  $\alpha$ -Glucosidase by Plant Extracts from the Brazilian Cerrado. *Planta Med*. 78: 393–399.
- Srianta, I., Kusumawati N., Nugerahani I., Artanti N., Xu G.R. 2013. In Vitro  $\alpha$ -glucosidase Inhibitory Activity of Monacus-fermented Durian Seed Extracts. *Int. Food Res J*. 20: 533-259.

- Su, H.C., C. H. Shu, L. T. Ng. 2013. Inhibitor Potential of Fatty Acid on Key Enzymes Related to Type 2 Diabetes. International Union of Biochemistry and Molecular Biology. 39:415-421.
- Sulistyo, R. P. 2018. Isolasi dan Identifikasi Senyawa inhibitor Enzim  $\alpha$ -Glukosidase dalam Fraksi Etil Asetat dari Ekstrak Rumpun Laut *Sargassum hystrix*. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Tatiya, A. U., G.T.Ganesh, K.Sneha, J.S .Sanjay. 2011. Effect on Total Phenolics, Antioxidant and Antimicrobial properties of *Bridelia retusa* Spreng. Stem Bark Indian Journal of Natural Product and Resources. Vol. 2 (4): 442-447.
- Teng, H., dan L. Chen. 2016.  $\alpha$ -Glucosidase and  $\alpha$ -amilase inhibitors from seed oil: a review liposoluble substances to treat diabetes. Critical reviews in food science and nutrition. 1549-7852
- Unnikrishnan, P.S.,K. Suthindhiran and M.A. Jayasri. 2015. Antidiabetic potential of marine algae by inhibiting key metabolic enzymes. Journal Frontiers in Life Science Volume 8 (2): 148-159.
- Uusitupa, M. 2005. Gene-diet interaction in relation to the prevention of obesity and type 2 diabetes: Evidence from the Finnish Diabetes Prevention Study. Nutr.Metab.Cardiovasc. Dis.. 15:225–233
- Vogel, A.I., A.R. Tatchell, B.S. Furnis, A.J. Hannaford and P.W.G. Smith .1989. Vogel's Textbook of Practical Organic Chemistry: 5th ed. ISBN 978-0-582-46236-6.
- Wijaya, D. N. 2017. Ketahanan padi (*Oryza sativa* L.) berpigmen terhadap walang sangit (*Leptocorisa oratorius* F.) berbasis metabolik NMR. Universitas Gadjah Mada. [Tesis].
- Yang, X., C.M.Kang, W. K.Lee, M. S.Kang. W. W. Lee dan Y. J.Jeon. 2011. Antioxidant Activity and Cell Protective Effect of Loliode Isolated from *Sargassum ringgoldianum*. Research Article Algae. 26(2):201-208.
- Yao, Y., W. Sang, M.Zhou, G.Ren. 2010. Antioxidant and  $\alpha$ -Glucosidase Inhibitory Activity of Colored Grains in China. J. Agri Food Chem. 27(58): 4-770.
- Yende, S. R., U. N. Harle, B. B. Chaugule. 2014. Therapeutic potential and health benefits of *Sargassum* species. Pharmacognosy Reviews. 8 (15): 1-7.
- Yoon, J.Y., H.Choi, H.S. Jun. 2017. The Effect of Phloroglucinol, A Component of *Ecklonia cava* Extract on Hepatic Glucose. Mar. Drugs. 15(106): 1-10.
- Zhang, J., S.Zhao, P. Yin, L. Yan. 2015.  $\alpha$ -GLucosidase Inhibitory Activity of Polyphenols from the Burs of *Castanea mollissima* Blume. Molecules. 19: 8373-8386