

DAFTAR PUSTAKA

- A. Moure, J.M. Cruz, D. Franco, J.M. Domínguez, J. Sineiro, H. Domínguez.,
M.J. Núñez, J.C. Parajo. (2001). Natural Antioxidants from Residual Sources.
Food Chem., 72 pp. 145-171
- Abdillah, D., Siswoyo, T. A., Soedradjad, R. (2015). Pengaruh Cekaman Kekeringan
terhadap Kandungan Fenolik dan Antioksidan Tumbuhan Sorgum (*Sorghum*
bicolor L. Moench) pada Fase Awal Vegetatif. *Berkala Ilmiah Pertanian* , 1(1).
- Abotaleb, M., Samuel, S. M., Varghese, E., Varghese, S., Kubatka, P., Liskova, A.,
& Büsselberg, D. (2019). Flavonoids in Cancer and Apoptosis. *Cancers*, 11(1).
- Adebooye OC, Vijayalakshmi R., Singh V. (2008). Aktivitas Peroksidase, Klorofil
dan Profil Antioksidan dari Dua Sayuran Daun (*Solanum nigrum* L. dan
Amaranthus cruentus L.) dibawah Enam Metode Pretreatment sebelum
dimasak. *Int. J. Makanan Sci. Technol*, 43, 173–178.
- Alam, Md., Roy, Suvashish., Anisuzzaman, Sharif. (2012). Antioxidant Activity of
The Ethanolic Extracts of Leaves, Stems and Fruits of *Solanum Nigrum*.
Pharmacognosy Communications, 2, 67.
- Amjad, M., Wang, Y., Han, S. (2024). Genome Wide Identification Of
Phenylalanine Ammonia-Lyase (PAL) Gene Family *Cucumis*
sativus (Cucumber) against Abiotic Stress. *BMC Genom Data*, 25, 76.
- Anggraini, Novita & Faridah, Eny & Indrioko, Sapto. (2016). Pengaruh Cekaman
Kekeringan terhadap Perilaku Fisiologis dan Pertumbuhan Bibit BlaK Locust
(*Robinia pseudoacacia*). *Jurnal Ilmu Kehutanan*. 9, 40.
- Anjum SA, Ashraf U, Zohaib A, Tanveer M, Naeem M, Ali I, Nazir U (2017) Growth
and Development Responses of Crop Plants Under Drought Stress: A Review.
Zemdirbyste 104:267–276
- Anjum, S. A., U. Ashraf, M. Tanveer, I. Khan, S.Hussain, B. Shahzad, A. Zohaib, F.
Abbas, M. F. Saleem, I. Ali, and L. C. Wang. (2017). Drought Induced Changes
in Growth, Osmolyte Accumulation and Antioxidan Metabolism of Three
Maize Hybrids. *Frontiers in Plant Science*, 69 (8).
- Annu. *Plant Rev.* 2018, pp. 21-62

- Arnell, N.W., Lowe, J.A., Challinor, A.J., Osborn, T.J., (2019). Global and Regional Impacts of Climate Change at Different Levels of Global Temperature Increase. *Clim. Change* 155 (3), 377–391.
- Arve, Louise & Torre, Sissel & Olsen, Jorunn & Tanino, Karen. (2011). Stomatal Responses to Drought Stress and Air Humidity. 10.5772/24661.
- Azizi, Maryam & Fard, Ehsan & Ghabooli, Mehdi. (2021). *Piriformospora indica* Affect Drought Tolerance by Regulation of Genes Expression and Some Morphophysiological Parameters in Tomato (*Solanum lycopersicum* L.). *Scientia Horticulturae*. 287, 110260.
- Balogh, Emőke., Hegedus, Attila., Stefanovits-Bányai, Éva. (2010). Application of and Correlation Among Antioxidant and Antiradical Assays for Characterizing Antioxidant Capacity of Berries. *Scientia Horticulturae*, 125, 332-336.
- BeKer, C.; Kläring, H.-P. (2016). CO₂ Enrichment can Produce High Red Leaf Lettuce Yield While Increasing Most Flavonoid Glycoside and Some Caffeic Acid Derivative Concentrations. *Food Chem.* , 199, 736–745.
- Beslo, Drago & Golubić, Nataša & Rastija, Vesna & Agić, Dejan & Karnaš, Maja & Šubarić, Domagoj & Lučić, Bono. (2023). Antioxidant Activity, Metabolism, and Bioavailability of Polyphenols in the Diet of Animals. *Antioxidants*, 12, 1141.
- Buchner, P.,Tausz, M., Ford, R., Leo, A., Fitzgerald, G.J., Hawkesford, M.J.,Tausz-Posch. (2015). Expression Patterns of C- and N-metabolism related Genes in Wheat are Changed during Senescence under Elevated CO₂ in Dry-land Agriculture. *Plant Sci*, 236, 239–249.
- Buchory, Gina & Anwar, Syaiful & Kristanto, Budi. (2022). Pertumbuhan, Produksi Simplisia, dan Kandungan Fenolik Total Selasih (*Ocimum basilicum* L.) pada Berbagai Taraf Cekaman Kekeringan dan Waktu Panen. *AGROTEK: Jurnal Ilmiah Ilmu Pertanian*, 5, 37-48.
- Caliskan, O., Radusiene, J., Temizel, K. E., Staunis, Z., Cirak, C., Kurt, D., & Odabas, M. S. (2017). The Effects of Salt and Drought Stress on Phenolic Accumulation in Greenhouse-Grown *Hypericum pruinatum*. *Italian Journal of Agronomy*, 12(3).

- Campisi, A., Acquaviva, R., Raciti, G., Duro, A., Rizzo, M., & Santagati, N. A. (2019). Antioxidant Activities of *Solanum Nigrum* L. Leaf Extracts Determined in *in vitro* Cellular Models. *Foods (Basel, Switzerland)*, 8(2), 63.
- Ćavar Zeljković, S., Štefelová, N., Hron, K., Doležalová, I., Tarkowski, P. (2023). Preharvest Abiotic Stress Affects The Nutritional Value of Lettuce. *Agronomy*, 13, 398.
- Chen X, Dai X, Liu Y, Yang Y, Yuan L, He X and Gong G (2022) *Solanum nigrum* Linn.: An Insight into Current Research on Traditional Uses, Phytochemistry, and Pharmacology. *Front. Pharmacol.* 13, 918071.
- Chen Z, Bertin R, Frolidi G. (2013). EC50 Estimation of Antioxidant Activity in DPPH Assay Using Several Statistical Programs. *Food Chem.* 138(1):414-20.
- Craft, AS., HB. Currier and Cp. StoKing. 1949. *Water in the Physiology of Plants*. The Chrocona Botanica Company. USA. 240p
- Dappah, D. K. , Kouamé, C. A. , Kouassi, N. K. , N'Dri, D. Y. , & Amani, G. N. (2021). Nutritional Quality of *Solanum nigrum* L. Leaves during Traditional Boiling. *American Journal of Food and Nutrition*, 9(1), 43-48.
- Davey, M.P., Bryant, D.N., Cummins, I., Ashenden, T.W., Gates, P., Baxter, R., Edwards, R. (2004). Effects of elevated CO₂ on the Vasculature and Phenolic Secondary Metabolism of *Plantago maritima*. *Phytochemistry* , 65, 2197–2204
- Davies, Kevin & Albert, NiK & Zhou, Yanfei & Schwinn, Kathy. (2018). Functions of Flavonoid and Betalain Pigments in Abiotic Stress Tolerance in Plants
- De Rezende, F.M.; de Souza, A.P.; BuKeridge, M.S.; Furlan, C.M. (2015). Is Guava Phenolic Metabolism Influenced by Elevated Atmospheric CO₂. *Environ. Pollut.* , 196, 483–488
- Deluc LG, Quilici DR, Decendit A. (2009). Water Deficit Alters Differentially Metabolic Pathways Affecting Important Flavor and Quality Traits in Grape Berries of *Cabernet sauvignon* and Chardonnay. *BMC Genomics*. 10, 212.
- Dewick, P. M. (2009). *Medicinal Natural Products A Biosynthetic Approach*. Third Edition. UK : University of Nottingham

- Díaz-Pérez, J.C., Eaton, T.E., (2015). Eggplant (*Solanum melongena* L.) Plant Growth and Fruit Yield as Affected by Drip Irrigation Rate. *HortScience* 50 (11), 1709–1714.
- E. Balogh, A. Hegedüs, E. Stefanovits-Bányai. (2010). Application of and Correlation Among Antioxidant and Antiradical Assays for Characterizing Antioxidant Capacity of Berries. *Scientia Horticul.*, 125, 332-336
- Echeverría-Londono, ~ S., Särkinen, T., Fenton, I.S., Purvis, A., Knapp, S., (2020). Dynamism and Context-Dependency in Diversification of The Megadiverse Plant Genus *Solanum* (Solanaceae). *J. Syst. Evol.* 58 (6), 767–782.
- Erb, Matthias Daniel J. Kliebenstein. (2021) Plant Secondary Metabolites as Defenses, Regulators, and Primary Metabolites: The Blurred Functional Trichotomy, *Plant Physiology*. 184(1), 39–52,
- Ermi Hikmawanti, N.P., Fatmawati, S., & Asri, A.W. (2021). The Effect of Ethanol Concentrations as The Extraction Solvent on Antioxidant Activity of Katuk (*Sauropus androgynus* (L.) Merr.) Leaves Extracts. *IOP Conference Series: Earth and Environmental Science*, 755.
- Farooq, S., Mir, S.A., Shah, M.A., & ManiKavasagan, A. 2022. Chapter 2 - Extraction techniques (S. A. Mir, A. ManiKavasagan, & M. A. B. T.-P. E. A. in the F. I. Shah (eds.), 23–37.
- Fauziah, Affrina., Sudirga, Sang Ketut., Parwanayoni, Ni Made Susun. (2021). Antioxidant Test Leunca Plant Leaf Extract (*Solanum nigrum* L.). *Metamorfosa: Journal of Biological Sciences*, 8(1), 28-34.
- Fitriyah, N. L., N. Azizah, dan E. Widaryanto. (2017). Analisis Pertumbuhan dan Hasil Tumbuhan Selada Air (*Nasturtium officinale*) pada Tingkat Pemberian Air yang Berbeda dan Dua Macam Bahan Tanam. *Jurnal Produksi Tumbuhan*. 5 (12), 2008 – 2016.
- Flores-Saavedra, Martín & Plazas, Mariola & Vilanova, Santiago & Prohens, Jaime & Gramazio, Pietro. (2023). Induction Of Water Stress in Major *Solanum* Crops: A Review on Methodologies and their Application for Identifying Drought Tolerant Materials. *Scientia Horticulturae*. 318.

- Gana LP, Etsassala NGER, Nchu F. (2022). Interactive Effects of Water Deficiency and Endophytic *Beauveria bassiana* on Plant Growth, Nutrient Uptake, Secondary Metabolite Contents, and Antioxidant Activity of *Allium cepa* L. *J Fungi*, 8(8), 874.
- Gao, S, H., Su, Z. Z., Yang, L. J., and Li, Z. Y. (2021). Chemical Components From Stems of *Solanum nigrum* by LC-MS and NMR. *Chin. Tradit. Herb. Drugs*. 52 (5), 1263–1273.
- Gardner, FP., RB. Pearce dan RL. Mitchell. 2008. *Fisiologi Tumbuhan Budidaya*. Terjemahan Herawati Susilo. UI Press. Jakarta.
- Gbadamosi, Idayat & Afolayan, Adeleye. (2016). In Vitro Anti-Radical Activities of Extracts of *Solanum nigrum* (L.) from South Africa. *Journal of Applied Biosciences*. 98, 9240.
- Gopalan, C.A., Ramasasthri, B.V. and Balasubramanian, S.C. 2011. *Nutritive value of Indian foods*. Indian Council of Medical Research.
- Halliwell B. (2001). Role of Free Radicals in The Neurodegenerative Diseases: Therapeutic Implications for Antioxidant Treatment. *Drugs Aging*. 18(9), 685-716.
- Hanani, Endang. 2015. *Analisis Fitokimia*. EGC : Jakarta
- Hardiastuti, S., 2021. The study of *Salvinia molesta* Growth with The Variation of Light Intensity. *Agrivet*, 18(1), 1-8.
- Harborne, J.B. 1984. *Phytochemical Methods: A Guide to Modern Technique of Plant Analysis*. 2nd ed. London: Chapman and Hall.
- Haridjaja O., Baskoro D. P. T., & Setianingsih M. (2013). Perbedaan Nilai Kadar Air Kapasitas Lapang Berdasarkan Metode AlhriKs, Drainase Bebas, dan Pressure Plate pada Berbagai Tekstur Tanah dan Hubungannya dengan Pertumbuhan Bunga Matahari (*Helianthus annuus* L.). *Jurnal Ilmu Tanah dan Lingkungan*, 15(2), 52-59.
- Herdiawan, Iwan & Abdullah, Liza., Sopandi, Denis. (2014). Status Nutrisi Hijauan *Indigofera zollingeriana* pada Berbagai Taraf Perlakuan Stress Kekeringan dan Interval Pemangkasan. *Jurnal Ilmu Ternak dan Veteriner*, 19, 91-103.

- Hura, T., Grzesiak, S., Hura, K., & Thiemt, E. (2008). Phenolics Accumulation and PAL Activity in Drought-resistant and Drought-sensitive Maize (*Zea mays* L.) Genotypes under Water Deficit Conditions. *Journal of Agronomy and Crop Science*, 194(2), 104-112.
- Hussain M, Farooq S, Hasan W, Ul-Allah TM, Farooq M, Nawaz A (2018). Drought Stress in Sunflower: Physiological Effects and its Management Through Breeding and Agronomic Alternatives. *Agric Water Manage*. 201, 152–166
- Iannitti T, Palmier B. (2009). Antioxidant Therapy Effectiveness: An Up to Date. *Eur Rev Med Pharmacol Sci*. 13, 245–278.
- Imadi, Sameen & Gul, Alvina & Dikilitas, Murat & Karakas, Sema & Sharma, Iti & Ahmad, Parvaiz. (2016). Water Stress: Types, Causes, and Impact on Plant Growth and Development. *J.Scienta*, 110260
- Isromarina, R., R.A. Sriwijaya. (2017). Uji Aktivitas Antioksidan Ekstrak dan Fraksi Ekstrak Metanol Daun Gaharu (*Gyrinops versteegii* (Gilg). Domke) dengan Metode DPPH. *Jurnal Ilmiah Bakti Farmasi*. 2(1), 57- 62.
- Jaafar, H. Z. E., Ibrahim, M. H. and Mohamad Fakri, N.F (2012). Impact of Soil Field Water Capacity on Secondary Metabolites, Phenylalanine Ammonia-Lyase (PAL), Maliondealdehyde (MDA) and Photosynthetic Responses of Malaysian Kacip Fatimah (*Labisia pumila* Benth). *Molecules*. 12, 7305-22.
- Jia, X., Wang, W., Chen, Z., He, Y., Liu, J. (2014). Concentrations of Secondary Metabolites in Tissues And Root Exudates of Wheat Seedlings Changed Under Elevated Atmospheric CO₂ and Cadmium-Contaminated Soils. *Environ. Exp. Bot.* , 107, 134–143.
- Kadir, A. (2011). Respons Genotipe Padi Mutan Hasil Iradiasi Sinar Gamma terhadap Cekaman Kekeringan. *Journal of Agrivigor*. 10: 235- 246.
- Krzyzanowska, J., CzubaKa, A., & Oleszek, W. (2010). Dietary Phytochemicals and Human Health. *Bio-Farms for Nutraceuticals: Functional Food and Safety Control by Biosensors*, 74-98.
- Kumdee, O., Molla, M.S.H., Kanavittaya, K., Romkaew, J., Sarobol, E., Nakasathien, S. (2023). Morpho-Physiological and Biochemical Responses of

- Maize Hybrids under Recurrent Water Stress at Early Vegetative Stage. *Agriculture*, 13, 1795.
- Kumowal, S., Fatimawali, F., & Jayanto, I. (2019). Uji Aktivitas Antibakteri Nanopartikel Ekstrak Lengkuas Putih (*Alpinia galanga* (L.) Willd) terhadap Bakteri *Klebsiella pneumoniae*. *PHARMACON*, 8(4), 781–790.
- L.M. Magalhães, M.A. Segundo, S. Reis, J.L.F.C. Lima, A.O.S.S. Rangel. (2006). Automatic Method for The Determination of Folin–Ciocalteu Reducing Capacity in Food Products. *J. Agric. Food Chem.*, 54, 5241-5246
- Latifah. (2015). Identifikasi Golongan SenyawaFlavonoid dan Uji Aktivitas Antioksidan pada Ekstrak Rimpang Kencur *Kaempfera galanga* L. dengan metode DPPH (1,1-difenil-2-pikrilhidrazil). *Tesis*. UIN Malang.
- Levitt, J. 1980. *Respons of Plants to Environmental Stress*. 2nd Edition (Vol. 2). Academic Press, Inc. New York. 607 p
- Liu Q, Luo L, Zheng L. (2018). Lignins: Biosynthesis and Biological Functions in Plants. *Int J Mol Sci*, 19(2), 335.
- Liu, M. Y., Liu, G. L., Kang, Y. X., Zhang, S., Wu, Y., & Wang, Y. (2018). Responses of leaf morphological and anatomical structure to elevation in an alpine plant *Meconopsis integrifolia*. *Chinese Journal of Ecology*, 37, 35–42.
- Lobo, V., Patil, A., Phatak, A., & Chandra, N. (2010). Free radicals, antioxidants and functional foods: Impact on human health. *Pharmacognosy reviews*, 4(8), 118–126.
- Magalhaes, Luis & Segundo, Marcela & Reis, Salette & Lima, José., Rangel, António. (2006). Automatic Method for the Determination of Folin–Ciocalteu Reducing Capacity in Food Products. *Journal of agricultural and food chemistry*. 54. 5241-6.
- Marjoni, M.R, A.D Afrinaldi, A.D Novita. (2015). Kandungan Total Fenol dan Aktivitas Antioksidan Ekstrak Air Daun Kersen (*Muntingia calabura* L.). *Jurnal Kedokteran Yarsi*. 23(3), 187-196.
- Matasyoh, L.G., S. Abel, H. Budhan, E. KloKe. (2015). Charaterization of the *Solanum nigrum* complex of Kenya by AFLP Markers. *Int. J. Agri. Sci. Tech*, 3, 62-69.

- Mensah JK, Obadoni BO, Eruotor PG, & Onome-Irieguna F. (2006). Simulated Flooding and Drought Effects on Germination, Growth, and Yield Parameters of Sesame (*Sesamum indicum* L.). *African Journal of Biotechnology*, 5 (13), 1249-1253.
- Morris, W., Taylor, M., (2017). The Solanaceous Vegetable Crops: potato, Tomato, Pepper, and Eggplant. *Encyclop. Appl. Plant Sci.* 55–58.
- Moure, A., Cruz, J. M., Franco, D., Domínguez, J. M., Sineiro, J., Domínguez, H., José Núñez, M., Parajó, J. C. (2001). Natural Antioxidants from Residual Sources. *Food Chemistry*, 72(2), 145–171.
- Mythili, K., Reddy, C.U., Chamundeeswari, D., dan Manna, P.K. (2014). Determination of Total Phenol, Alkaloid, Flavonoid and Tannin in Different Extracts of *Calanthe triplicata*. *Journal of Pharmacognosy and Phytochemistry*, 2(2).
- Nicolas-Espinosa, J., Garcia-Ibañez, P., Lopez-Zaplana, A., Yepes-Molina, L., Albaladejo-Marico, L., & Carvajal, M. (2023). Confronting Secondary Metabolites with Water Uptake and Transport in Plants under Abiotic Stress. *International Journal of Molecular Sciences*, 24(3), 2826.
- Nio, S. A., Pirade, M., & Ludong, D. P. M. (2019). Leaf Chlorophyll Content in North Sulawesi (Indonesia) Local Rice Cultivars Subjected to Polyethylene Glycol (PEG) 8000-Induced Water Deficit at The Vegetative Phase. *Biodiversitas*, 20(9), 2462–2467.
- Nadila, Dea & Sobir, Sobir & Syukur, Muhamad. (2019). Keragaman Morfologi dan Kandungan Tanin pada Tumbuhan Leunca (*Solanum nigrum* L.). *Indonesian Journal of Agronomy*, 47, 76.
- Najar, Tariq & Banerjee, Suchitra & Chauhan, Rajendra. (2022). In-Vitro Antioxidant Activity of Total Phenolic and Flavonoid Content of *Solanum nigrum* Leaf. *International Journal for Research in Applied Sciences and Biotechnology*. 9(2), 96-106.
- Nugroho, L Hartanto. 2017. *Struktur dan Produk Jaringan Sekretori Tumbuhan*. Yogyakarta: UGM Press

- Nugroho, L.H., Verpoorte, R. (2002). Secondary Metabolism in Tobacco. *Plant Cell, Tissue and Organ Culture*. 68, 105–125.
- Obidiegwu, J. E., G. J. Bryan, H. G. Jones, and A. Prashar. (2015). Coping With Drought: Stress and Adaptive Responses in Potato And Perspective for Improvement. *Frontiers in Plant Science*, 6 (1), 1 – 23.
- Okello OP, Gweyi JPO, Nawiri Mp, Musila W. (2017). Effects of Water Stress on Phenolic Contents and Antioxidant Activity of African Nightshades. *Biofarmasi J Nat Prod Biochem* 15, 74-90.
- Park YJ, Kwon DY, Koo SY, Truong TQ, Hong SC, Choi J, Moon J, Kim SM. (2023). Identification of Drought-Responsive Phenolic Compounds and their Biosynthetic Regulation under Drought Stress in *Ligularia fischeri*. *Front Plant Sci*, 3(14), 1140509.
- Patel, A., Biswas, S., Shoja, M. H., Ramalingayya, G. V., Nandakumar, K. (2014). Protective Effects of Aqueous Extract of *Solanum nigrum* Linn. Leaves in Rat Models of Oral Mucositis. *TheScientificWorldJournal*, 2014, 345939.
- Pereira, D. M., Valentão, P., Pereira, J. A., & Andrade, P. B. (2009). Phenolics: From Chemistry to Biology. *Molecules*, 14(6), 2202-2211.
- Petrov V, Hille J, Mueller-Roeber B, Gechev TS (2015) ROS-mediated Abiotic Stress-induced Programmed Cell Death in Plants. *Front Plant Sci*. 6, 69.
- Phaniendra, A., Jestadi, D. B. & Periyasamy, L., (2015). Free Radicals: Properties, Sources, Targets, and Their Implication in Various Diseases. *Indian J Clin Biochem*, 30(1), 11-26.
- Plazas, M., Nguyen, H.T., Gonzalez-Orenga, ´ S., Fita, A., Vicente, O., Prohens, J., Boscaiu, M. (2019). Comparative Analysis of The Responses to Water Stress in Eggplant (*Solanum melongena*) Cultivars. *Plant Physiol. Biochem*. 143, 72–82.
- Plazas, Mariola & González Orenga, Sara & Nguyen, Trong & Morar, Irina & Fita, Ana & Boscaiu, Monica & Prohens, Jaime & Vicente, Oscar. (2022). Growth and Antioxidant Responses Triggered by Water Stress in Wild Relatives of Eggplant. *Scientia Horticulturae*. 293. 110685.

- Pritchard JK, Stephens M, Donnelly P. (2000). Inference of Population Structure using Multilocus Genotype Data. *Genetics*. 155(2), 945-59.
- Qaderi, M., Martel, A., & Dixon, S. 2019. Environmental Faktors Influence Plant Vascular System and Water Regulation. *Plants* 8(3), 65-76
- Rahman, A., M. Albadrani, G., Ahmad Waraich, E., Hussain Awan, T., Yavaş, İ., & Hussain, S. (2023). Plant Secondary Metabolites and Abiotic Stress Tolerance: Overview and Implications. *IntechOpen*, 111696
- Ramadhan, Hafiz., Muthia, Wahyunita, Rahmi Sari., Forestryana, Dyera., Soleha, Sherly M., Lihimi. (2023). Comparison of Extraction Solvents Towards Anti-Propionibacterium acnes activity of *Alphitonia incana* (Roxb). Teijsm. & Binn. ex Kurz Leaves. *Indonesian Journal of Pharmaceutical Science and Technology*. 1(1), 10-19
- Ranti, M.A., Suryani, N.N., & Budiasa, I.K. (2017). Pengaruh Pemberian Kadar Air Berbeda terhadap Pertumbuhan dan Produksi Hijauan Tumbuhan *Indigofera zollingeriana*. *Peternakan Tropika*, 5 (1), 50 – 66.
- Rao, Junaid Muhammad., Feng, Bihong., Ahmad, Muhammad., Tahir Ul Qamar, Muhammad., Aslam, Muhammad., Khalid, Muhammad., Hussain, Sajjad., Zhong, Ruimin., Ali, Qurban., Xu, Qiang., Ma, Chongjian & Wang, Lingqiang. (2023). LC-MS/MS-based Metabolomics Approach Identified Novel Antioxidant Flavonoids Associated with Drought Tolerance in Citrus Species. *Frontiers in Plant Science*, 14. 10.3389.
- Ravi, V., T.S.M. Saleem, S.S. Patel, J. Raamamurthy, K. Gauthaman. (2009). Anti Inflammatory Effect of Methanolic Extract of *Solanum nigrum* Linn Berries. *Int. J. ARNP*, 2, 33-36.
- Rezayian, Maryam & Niknam, Vahid & Ebrahimzadeh, Hadis. (2018). Differential Responses of Phenolic Compounds of *Brassica napus* under Drought Stress. *Iranian Journal of Plant Physiology*, 8, 2417-2425.
- Ruqaya, M.A., H. Bushra, S.A Rafal. (2017). Assesments of Total Flavonoid, Antioxidant, and Antibacterial Activity of *Ficus religiosa* Metanolic Extract in Vitro. *Int. J. Pharm Science*. 45(2) : 6-10.

- Safarrudin, M., Boer, D., Hadini, H., Sadimantara, I.G.R., Muhidin, & Hisein, W.S.A. (2022). Skrining Ketahanan Beberapa Jenis Tumbuhan Tomat terhadap Cekaman Kekeringan. *Berkala Ilmu-ilmu Pertanian - Journal of Agricultural Sciences*, 2(1), 1-7.
- Sani, Saidu., Lawal, Bashir., Ejeje, Jerius & Bidemi, Aliu Tawakalitu., Onikanni, Sunday., Uchewa, Obinna., Ovoh, Joy., Ekpa, Faith., Ozoagu, Chikezie ., Akuma, Tochukwu & Onyeji, Success., Obialor, Amara & Alotaibi, Saqer., Albogami, Sarah., Waard, Michel., Batiha, Gaber., Huang, Tse., wu, Alexander. (2022). Biochemical and Tissue Physiopathological Evaluation of the Preclinical Efficacy of *Solanum torvum* Swartz Leaves for Treating Oxidative Impairment in Rats Administered a β -cell-toxicant (STZ). *Biomedicine & Pharmacotherapy*, 154, 113605.
- Sedjati, S., A. Suryono, Santosa, E. Supriyantini, A. Ridlo. (2017). Aktivitas Antioksidan dan Kandungan Senyawa Fenolik Makroalga *Sargassum* sp. *Jurnal Kelautan Tropis*. 20(2) : 117-123
- Selmar, D., & Kleinwächter, M. (2013). Influencing The Product Quality by Deliberately Applying Drought Stress During The Cultivation of Medicinal Plants. *Industrial Crops and Products*, 42, 558–566.
- Shawon, R. A., Kang, B. S., Lee, S. G., Kim, S. K., Ju Lee, H., Katrich, E., Gorinstein, S., & Ku, Y. G. (2020). Influence Of Drought Stress on Bioactive Compounds, Antioxidant Enzymes and Glucosinolate Contents of Chinese Cabbage (*Brassica rapa*). *Food Chemistry*, 308, 125657.
- Siemonsa, J.S., P.C.M. Jansen. 1994. *Solanum americanum* Miller. p. 252-255. In Siemonsa, J.S., PiluK, K (Eds.). Plant resource of South East Asia no.8. Prosea Foundation, Indonesia, INA
- Silvani, I., Kurniawan, K. and Lestari, I.T. (2023). Uji Perbandingan Aktifitas Antioksidan Ekstrak Daun Kenikir (*Cosmos kaudatus* Kunth) dan Daun Leunca (*Solanum nigrum* L) dengan Metode Dpph (2, 2-Difenil-1-Pikrilhidrazil). *Jurnal Ilmiah Global Farmasi (JIGF)*, 1(1), 27-35.

- Singh S, Gupta AK, Kaur N (2012). Influence of Drought and Sowing Time on Protein Composition, Antinutrients, and Mineral Contents of Wheat. *Sci World J*. 485751
- Singh, J.P., Kaur, A., Singh, N., Nim, L., Shevkani, K., Kaur, H., and Arora, D.S. (2016). In Vitro Antioxidant and Antimicrobial Properties of Jambolan (*Syzygium cumini*) Fruit Polyphenols. *Food Science and Technology*, 65, 1025-1030.
- Soedradjad, R., & Soeparjono, S. 2022. Respons Pertumbuhan Tumbuhan Jagung terhadap Aplikasi Biochar pada Lahan Kering dengan Dua Sistem Irigasi. *Jurnal Ilmiah Hijau Cendekia*. 7(1):26-34
- Sridhar, T.M., P. Josthana, C.V. Naidu. (2011). In Vitro Antibacterial Activity and Phytochemical Analysis of *Solanum nigrum* Linn Important Antiulcer Medicinal Plant. *J. Exp. Sci*, 2, 24-29.
- Sultana, B., Hussain, Z., Hameed, M.S., Mushtaq, M. (2013). Antioxidant Activity among Different Parts of Aubergine (*Solanum melongena* L .). *Pak. J. Bot.*, 45(4), 1443-1448
- Taiz, L. dan E. Zeiger. 2002. *Plant Physiology*. 3rd ed. Sunderland: Sinauer Associates.
- Terpinc, P., Bezjak, M., & Abramovič, H. (2009). A Kinetic Model for Evaluation of The Antioxidant Activity of Several Rosemary Extracts. *Food Chemistry*, 115, 740-744.
- Terpinc, Petra & Abramovi, Helena. (2010). A Kinetic Approach for Evaluation of The Antioxidant Activity of Selected Phenolic Acids. *Food Chemistry*. 121. 366-371.
- Terpinc, Petra & Čeh, Barbara & Ulrih, Nataša & Abramovi, Helena. (2012). Studies of the Correlation between Antioxidant Properties and The Total Phenolic Content of Different Oil Cake Extracts. *Industrial Crops and Products*. 39. 210–217.
- Todaka D, Zhao Y, Yoshida T, Kudo M, Kidokoro S, Mizoi J, Toyooka K (2017) Temporal and Spatial Changes in Gene Expression, Metabolite Accumulation

- and Phytohormone Content in Rice Seedlings Grown under Drought Stress Conditions. *Plant J*, 90:61–78
- Tong Z, He W, Fan X and Guo A (2022). Biological Function of Plant Tannin and Its Application in Animal Health. *Front. Vet. Sci.* 8:803657.
- Treml, J., & Šmejkal, K. (2016). Flavonoids as Potent Scavengers of Hydroxyl Radicals. *Comprehensive Reviews in Food Science and Food Safety*, 15(4), 720–738.
- Triesty, I., & Mahfud, M. (2017). Ekstraksi Minyak Atsiri dari Gaharu (*Aquilaria Malaccensis*) dengan menggunakan Metode Microwave Hydrodistillation dan Soxhlet Extraction. *Jurnal Teknik Its*, 6(2).
- Ullah A, Manghwar H, Shaban M, Khan AH, Akbar A, Ali U, Fahad S. (2018). Phytohormones Enhanced Drought Tolerance in Plants: A Coping Strategy. *Environ Sci Pollut Res.* 25:33103–33118
- Ülo Niinemets. (2016). Uncovering The Hidden Facets of Drought Stress: Secondary Metabolites Make The Difference. *Tree Physiology*, 36(2), 129–132.
- Verpoorte, R. and A.W. Alfermann. 2000. *Metabolic Engineering of Plant Secondary Metabolism*. Kluwer Academic Publisher. Boston, London
- Wang, Z., Li, J., Ji, Y., An, P., Zhang, S., & Li, Z. (2013). Traditional Herbal Medicine: A Review of Potential of Inhibitory Hepatocellular Carcinoma in Basic Research and Clinical Trial. *Evidence-Based Complementary and Alternative Medicine*, 2013(1), 268963.
- Wendersteyt, Novira & Wewengkang, Defny & Abdullah, Surya. (2021). Uji Aktivitas Antimikroba dari Ekstrak dan Fraksi *Ascidian herdmania momus* dari Perairan Pulau Bangka Likupang terhadap Pertumbuhan Mikroba *Staphylococcus aureus*, *Salmonella typhimurium* dan *Candida albicans*. *PHARMACON*, 10, 706.
- Winarsih, H. 2007. *Antioksidan Alami dan Radikal Bebas*. Kanisius. Yogyakarta.
- Xu, J., Su, X., Li, Y., Sun, X., Wang, D., Wang, W. (2019). Response of Bioactive Phytochemicals in Vegetables and Fruits to Environmental Faktors. *Eur. J. Nutr. Food Saf.* 9, 233–247.

- Yadav, Bindu & Jogawat, Abhimanyu & Rahman, Md & Narayan, Om. (2021). Secondary Metabolites in The Drought Stress Tolerance of Crop Plants: A Review. *Gene Reports*, 23.
- Yadav, S., Modi, P., Dave, A., Vijapura, A., Patel, D., & Patel, M. (2020). Effect of Abiotic Stress on Crops. *Intech Open*.88434.
- Yang, L., Wen, K. S., Ruan, X., Zhao, Y. X., Wei, F., & Wang, Q. (2018). Response of Plant Secondary Metabolites to Environmental Faktors. *Molecules*, 23(4), 762.
- Zaidi, S. K., Ansari, S. A., Tabrez, S., Naseer, M. I., Shahwan, M. J., Banu, N., & Al-Qahtani, M. H. (2019). Antioxidant Potential of *Solanum nigrum* Aqueous Leaves Extract in Modulating Restraint Stress-Induced Changes in Rat's Liver. *Journal Of Pharmacy & Bioallied Sciences*, 11(1), 60–68.
- Zeb, A. (2020). Concept, Mechanism, and Applications of Phenolic Antioxidants In Foods. *Journal of Food Biochemistry*.13394
- Zou K, Zhao YY, Zhang RY. (2006). A Cytotoxic Saponin from *Albizia julibrissin*. *Chem Pharm Bull*. 54:1211-1212.