

DAFTAR PUSTAKA

- Agamy, R.A., Hafez, E.E., and Taha, T.H. (2013). Acquired resistant motivated by salicylic acid applications on salt stressed tomato (*Lycopersicon esculentum* Mill.). *American-Eurasian J. of Agric. and Environ. Sci.* 13 (01), 50–57.
- Ahmad, P., Alyemeni, M. N., Ahanger, M. A., Egamberdieva, D., Wijaya, L., and Alam, P. (2018). Salicylic Acid (SA) Induced Alterations in Growth, Biochemical Attributes and Antioxidant Enzyme Activity in Faba Bean (*Vicia faba* L.) Seedlings under NaCl Toxicity. *Russian Journal of Plant Physiology*, 65(1):104–114. doi: 10.1134/S1021443718010132.
- Alyemeni, M. N., Hayat, Q., and Wijaya, L. (2014). Effect of salicylic acid on the growth, photosynthetic efficiency and enzyme activities of leguminous plant under cadmium stress. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 42(2):440–445. doi: 10.1583/nbha4229447.
- Amornrit, W., & Santiyanont, R. (2016). Neuroprotective effect of *Amaranthus lividus* and *Amaranthus tricolor* and their effects on gene expression of RAGE during oxidative stress in SH-SY5Y cells. *Genetics and Molecular Research*, 15(2), 1–14. <https://doi.org/10.4238/gmr.15027562>.
- Ariami, P., Farida and Jubair (2018). Potensi Teh Daun Bayam Merah (*Amaranthus Tricolor* L) Terhadap Aktivitas Penghambatan Tahap Pembelahan Sel (anti mitosis) Sel Embrio Bulu Babi (*Diedema antillarum*). *Jurnal Analisis Mediaka Bio-Sains*, 5(2), pp. 114–124.
- Ashihara, H., A. Crozier and A. Komamine. (2011). *Plant Metabolism and Biotechnology*. A John Wiley and Sons. Ltd Publication. West Sussex.
- Asip, F, Febrianti, R, Novitasari, T. 2015. Pengaruh Konsentrasi NaOH dan Waktu Peleburan Pada Pembuatan Asam Oksalat dari Ampas Tebu. *Jurnal Teknik Kimia*. Fakultas Teknik. Universitas Sriwijaya. 3 (21).
- Astuti, Y., Umrah and Thaha, A. R. (2020). Pengamatan Pertumbuhan Tanaman Bayam (*Amaranthus Tricolor* L.) Pasca Aplikasi Biofertilizer (Bahan Aktif *Aspergillus* Sp.) Sediaan Cair. *Biocelebes*, 14(2). 199–209. doi: 10.22487/bioceb.v14i2.15272.
- Bandurska, H. (2013). “Salicylic Acid: An Update on Biosynthesis and Action in Plant Response to Water Deficit and Performance Under Drought” dalam Hayat, S., A. Ahmad, M. N. Alyemeni (Editor). *Salicylic Acid Plant Growth and Development*. Springer: London. 1 – 25: 1286-1300.
- Binenbaum, J., Weinstain, R. and Shani, E. (2018). Gibberellin Localization and Transport in Plants. *Trends in Plant Science*. 23(5): 410–421. doi: 10.1016/j.tplants.2018.02.005.
- Cai, X. *et al.* (2018). Expression analysis of oxalate metabolic pathway genes reveals oxalate regulation patterns in spinach. *Molecules*, 23(6):1286-1301 doi: 10.3390/molecules23061286.

- Cao, Y., Z. Zhang, L. Xue, J. Du, J. Shang, F. Xu, S. Yuan & H. Lin. (2009). Lack of Salicylic Acid in *Arabidopsis thaliana* Protects Plants Against Moderate Salt Stress. *Zeitschrift fur Naturforschung C*. 64 (3-4): 231 – 238.
- Chong, J., Marie-Agnes Pierrel, P. Atanassova, D. Werck-Reichhart, B. Fritig & P. Saindrenan. (2001). Free and Conjugated Benzoic Acid in Tobacco Plants and Cell Cultures. Induced Accumulation Upon Elicitation of Defense Response and Role as Salicylic Acid Precursors. *Plant Physiology*. 125 (1): 318 – 328.
- Coniwati, P, Oktarisky, dan R Wijaya. (2008). Pemanfaatan Limbah Sabut Kelapa sebagai Bahan Baku Pembuatan Asam Oksalat dengan Reaksi Oksidasi Asam Sitrat. *Jurnal Teknik Kimia*. 4 (15) : 36-46.
- Debolt S *et al.* (2007). Ascorbate as a biosynthetic precursor in plants. *Annals of Botany* 99:3–8. DOI:10.1093/aob/mcl236.
- Dempsey, D. A. *et al.* (2011). Salicylic Acid Biosynthesis and Metabolism. *The Arabidopsis Book*, 9, p. e0156. doi: 10.1199/tab.0156.
- Dias, C.V, Mendes, J.S, Dos Santos, A.C, Pirovani, C.P, da Silva Gesteira, Micheli, F, Gramacho, K.P, Hammerstone, J, Mazzafera, P, de Mattos Cascardo, J.C. (2011). Hydrogen peroxide formation in cacao tissues infected by the hemibiotrophic fungus *Moniliophthora perniciosa*. *Plant Physiol Biochem*.49 (8): 917-922.
- Ellong, E. N. *et al.* (2015). Polyphenols, Carotenoids, Vitamin C Content in Tropical Fruits and Vegetables and Impact of Processing Methods. *Food and Nutrition Sciences*, 06(03):299–313. doi: 10.4236/fns.2015.63030.
- Emamverdian, A., Ding, Y. and Mokhberdoran, F. (2020). The role of salicylic acid and gibberellin signaling in plant responses to abiotic stress with an emphasis on heavy metals. *Plant Signaling and Behavior*. 15(7): 2-10. doi: 10.1080/15592324.2020.1777372.
- EMEA. (2003). *Comitte for veterinary medicinal products oxalic Acid*. Canary Wharf. London.
- Farahbakhsh, H. and Saiid, M. S. (2011). Effects of foliar application of salicylic acid on vegetative growth of maize under saline conditions. *Plant Science*, 5(10): 575–578.
- Fariduddin, Q., Hayat, S., and Ahmad, A. (2003). Salicylic acid influences net photosynthetic rate, carboxylation efficiency, nitrate reductase activity and seed yield in *Brassica juncea*. *Photosynthetica*. 41: 281-284
- Fenech, M. *et al.* (2019). Vitamin C content in fruits: Biosynthesis and regulation', *Frontiers in Plant Science*, 9:1–21. doi: 10.3389/fpls.2018.02006.
- Fitriani, H., Nurlailah, N. and Rakhmina, D. (2016) 'Kandungan Asam Oksalat Sayur Bayam', *Medical Laboratory Technology Journal*, 2(2): 51-55. doi: 10.31964/mltj.v2i2.95.

- Fowler, R.M, Bright, H.A, Vogel, A. (1935). Method for Direct Colorimetric Determination of Oxalic Acid, *Anal. Chem.* 27 (6): 1014-1015.
- Franceschi, V.R and H.T Horner. (1980). *Calcium Oxalate Crystal in Plant*. The Botanical Review. *Springer*. New York. 380-381
- Franchesi, V.R., and Nakata, P.A. (2005). Calcium oxalate in plants: formation and functions. *Annual Review of Plant Biology*. 56:41-71.
- Gardner, F. P., Pearce, R. B. and Mitchell, R. L. (1991). Fisiologi tanaman budidaya (Diterjemahkan oleh: Herawati Susilo). Universitas Indonesia Press. Jakarta.
- Ghai, N., Setia, R.C., and Setia, N. (2002). Effects of paclobutrazol and salicylic acid on chlorophyll content, hill activity and yield components in *Brassica napus* L. (cv. GSL-1). *Phytomorphology*. 52: 83-87.
- Gondor, O. K. *et al.* (2016). Salicylic acid induction of flavonoid biosynthesis pathways in wheat varies by treatment. *Frontiers in Plant Science*, 7(9): 1–12. doi: 10.3389/fpls.2016.01447.
- Gupta, Dharmendra K., J. M. Palma. (2015). *Reactive Oxygen Spesies and Oxidative Damage in Plants Under Stress*. Springer International Publishing: Switzerland.pp. 1 – 82.
- Hakim, N., Nyakpa, M. Y., Lubis A. M., Nugroho S. G., Diha, M. A., Hong, G.B. dan Bailey H. H. (1986). *Dasar-dasar Ilmu Tanah*. Universitas Lampung.
- Handayani, T, Sopha, G.A, Murtiningsih, R, Setiawati, W. (2017). *Petunjuk teknis budidaya tanaman sayuran*. Balai Penelitian Tanaman Sayuran Pusat Penelitian dan Pengembangan Hortikultura Badan Penelitian dan Pengembangan Pertanian.
- Hao, J. H., X. L. Wang, C. J. Dong, Z. G. Zhang & Q. M. Shang. (2010). Salicylic Acid Induces Stomatal Closure by Modulating Endogenous Hormone Leves in Cucumber Cotyledons. *Russian Journal of Plant Physiology*. 58 (5): 906 – 913.
- Harijati, N.E., L. Arumingtyas dan R. Handayani. (2011). Pengaruh Pemberian Kalsium terhadap ukuran dan Kerapatan Kristal Kalsium Oksalat pada porang (*Amorophallus muelleri* Blume). *Jurnal Pembangunan dan Alam Lestari*. 1: 72-139.
- Harjadi S.S. 2009. *Zat Pengatur Tumbuh*. PT. Gramedia. Jakarta.
- Haryadi, J. (2013). *Fakta buah dan sayur yang berbahaya*. Cetakan ke I. Niaga Swadaya. Jakarta.
- Hayat, S., A. Ahmad, dan M. N. Alyemeni. (2013). *Salicylic Acid: Plant Growth and Development*. Springer. Dodrecht, pp. 10, 46.
- He Yuehui., Hirotada Fukushige., David, F. Hildebrand., and Susheng Ga. (2002). Evidence supporting a role of jasmonic acid in Arabidopsis leaf senescence. *Plant Physiology*, 128(3): 876–884. doi: 10.1104/pp.010843.

- H. M. Mahbubur Rahman, A., & Iffat Ara Gulshana, M. (2014). Taxonomy and Medicinal Uses on Amaranthaceae Family of Rajshahi, Bangladesh. *Applied Ecology and Environmental Sciences*. 2(2): 54–59. <https://doi.org/10.12691/aees-2-2-3>.
- Hussain, E.A., Z. Sadiq and M. Zia-Ul-Haq. (2018). Betalains: Biomolecular Aspect. *Springer*. Cham. 20.
- Hussain, S., Nanda, S., Zhang, J., Rehmani, M. I. A., Suleman, M., Li, G., & Hou, H. (2021). Auxin and cytokinin interplay during leaf morphogenesis and phyllotaxy. *Plants*, 10(8): 1–14.
- Hu, W. Sabrina, F., Lorenzo, K., Yanjun Li., Wei Li., Yingnan Chen., Xiaomin, W., Ziniu, D., and Shenxi Xie. (2017). Endogenous auxin and its manipulation influence in vitro shoot organogenesis of citrus epicotyl explants. *Horticulture Research*, 4. doi: 10.1038/hortres.2017.71.
- Ismail, A. *et al.* (2020) ‘Effect of salicylic acid on carotenoids and chlorophyll content in mas cotek (*Ficus deltoidea* Jack Var. *trengganuensis*) leaves and its retinol activity equivalents (RAE)’, *Journal of Pharmacy and Nutrition Sciences*, 10(1), pp. 25–33. doi: 10.29169/1927-5951.2020.10.01.5.
- ITIS. (2018). *Taxonomic of Amaranthus tricolor* L. *Taxonomic Serial No.:* 181927 (*Integrated Taxonomic Information System*). www.itis.gov. diakses pada 25 Agustus 2021 pukul 20.00.
- Janda, T., Szalai, G. and Pál, M. (2020). Salicylic acid signalling in plants. *International Journal of Molecular Sciences*, 21(7): 2655-2661 doi: 10.3390/ijms21072655.
- Jangde, B, Asati, B.S, Tripathy, B, Bairwa, P.L. 2018. Evaluation of Quantitative and Qualitative Characters in *Amaranthus* (*Amaranthus tricolor* L.) Genotypes under Chhattisgarh Plains. *Int.J.Curr.Microbiol.App.Sci. Special*. 7: 708-715.
- Javanmardi, J. and N. Akbari (2016). Salicylic acid at different plant growth stages affects secondary metabolites and physico-chemical parameters of greenhouse tomato. *Advances Horticultural Science*. 30(3):151-157.
- Jayakannan, M., Bose, J., Babourina, O., Rengel, Z., & Shabala, S. (2013). Salicylic acid improves salinity tolerance in *Arabidopsis* by restoring membrane potential and preventing salt-induced K⁺ loss via a GORK channel. *Journal of Experimental Botany*, 64(8): 2255-2268, 2255–2268. <https://doi.org/10.1093/jxb/ert085>.

- Jung, H. C. 1997. Spontaneous Conversion of L-Dehydroascorbic Acid to L-Ascorbic Acid and L-Erythroascorbic acid. *Biochemistry & Biophysic.* 355(1): 9-14.
- Junmatong, C. *et al.* (2015). Cold storage in salicylic acid increases enzymatic and non-enzymatic antioxidants of Nam Dok Mai No. 4 mango fruit. *Science Asia*, 41(1):12–21. doi: 10.2306/scienceasia1513-1874.2015.41.012.
- Kallner, A. (1986). *Annals of the New York. Academy of Sciences.* Pp: 418-423.
- Khandaker, L., Ali, M. B. and Oba, S. (2009). Influence of cultivar and growth stage on pigments and processing factors on betacyanins in Red Amaranth (*Amaranthus tricolor* L.). *Food Science and Technology International*, 15(3): 259–265. doi: 10.1177/1082013209341119.
- Khan W, Balakrishnan P and Smith DL. (2003). Photosynthetic responses of corn and soybean to foliar application of salicylates. *Journal of Plant Physiol.* 160 (5): 485 - 492.
- Khan, N. A., S. Syeed, A. Masood, R. Nazar & N. Iqbal. (2010). Application of Salicylic Acid Increase Contents of Nutrients and Antioxidative Metabolism in Mungbean and Alleviates Adverse Effect of Salinity Stress. *International Journal of Plant Biology.* 1 (1): 1 – 8.
- Khan, T.A., M. Mazid, F. Mohamma. (2011). Role of ascorbic acid against pathogenesis in plants. *Journal of Stress Physiology & Biochemistry.* 7(3): 222-234.
- Kieber, J. J. and Schaller, G. E. (2014). Cytokinins. *The Arabidopsis Book.* 1-36 p. e0168. doi: 10.1199/tab.0168.
- Kirk, R.E, and Orthmer D.F. 2007. *Encyclopedia of Chemical Technology.* 5th ed.
- Koo, Y. M., Heo, A. Y. and Choi, H. W. (2020). Salicylic acid as a safe plant protector and growth regulator. *Plant Pathology Journal*, 36(1):1–10. doi: 10.5423/PPJ.RW.12.2019.0295.
- Kostman, T. A., N. M. Tarlyn, F. A. Loewus, dan V. R. Franceschi. (2001). Biosynthesis of L-Ascorbic Acid and conversion of Carbons 1 and 2 of Ascorbic Acid to Oxalic Acid occurs within individual Calcium Oxalate crystal idioblasts. *Plant Physiology.* 125:634-640.
- Larque-Saavedra, A and Martin-Mex, R. 2007. Effects of salicylic acid on bioproductivity of plants. In: Hayat S, Ahmad A (Eds) *Salicylic acid: a plant hormone.* Springer, Dordrecht. pp. 15-23.
- Leong, L. P. and Shui, G. (2002). An investigation of antioxidant capacity of fruits in Singapore markets. *Food Chemistry*, 76(1): 69–75. doi: 10.1016/S0308-8146(01)00251-5.
- Leslie, C. A., & Romani, R. J. (1988). Inhibition of Ethylene Biosynthesis by Salicylic Acid. *Plant Physiology*, 88(3): 833–837. <https://doi.org/10.1104/pp.88.3.833>.

- Lestari, E.G.(2006). Hubungan antara Kerapatan Stomata dengan Ketahanan Kekeringan pada Somaklon Padi Gajahmungkur, Towuti, dan IR 64. *Jurnal Biodiversitas*. 7(1): 44-48.
- Liu, S., Y. Dong, X. J. Kong. (2014). Effects of Foliar Application of Nitric Oxide and Salicylic Acid on Salt-Induced Changes in Photosynthesis and Antioxidative Metabolism of Cotton Seedlings. *Plant Growth Regulator*. 73 (1): 67 – 78.
- Maksimov, I.V.,Surina, O.B., Sakhabutdinova, A.R., Troshina, N.B., and Shakirova, F.M. 2015. Changes in the phytohormone levels in wheat calli as affected by salicylic acid and infection with *Tilletia caries*, a bunt pathogenic agent. *Russian Journal of Plant Physiol.* 51:228–233. DOI:10.1023/B:RUPP.0000019219.83823.49.
- Maljeti, M., Mapanawang, A. L. and Korompis, M. (2017). The Effect Of Spinach Capsules (*Amaranthus Tricolor L*) To Increase The Level Of Hemoglobin (Hb) In Pregnant Women In Mahia Village, Central Tobelo Sub-District, North Halmahera Regency. *International Journal Of Health Medicine and Current Research*, 2(03), pp. 558–562. doi: 10.22301/IJHMCR.2528-3189.558.
- Marantika, M., Hiariej, A., & Sahertian, D. E. (2021). Kerapatan dan Distribusi Stomata Daun Spesies Mangrove di Desa Negeri Lama Kota Ambon. *Jurnal Ilmu Alam Dan Lingkungan*, 12(1), 1–6.
- Marschner, H. 1995. *Mineral Nutrition of Higher Plants*. 2nd ed. San Diego: Academic Press. 229-265.
- Matysiak, K. *et al.* (2020). Effect of foliar applied acetylsalicylic acid on wheat (*Triticum aestivum l.*) under field conditions. *Agronomy*, 10(12): 1918-1936. doi: 10.3390/agronomy10121918.
- McAdam, S. A. M. and Brodribb, T. J. (2018). Mesophyll cells are the main site of abscisic acid biosynthesis in water-stressed leaves. *Plant Physiology*, 177(3): 911–917. doi: 10.1104/pp.17.01829.
- Miura, K. and Tada, Y. (2014). Regulation of water, salinity, and cold stress responses by salicylic acid. *Frontiers in Plant Science*, 5(4): 1–12. doi: 10.3389/fpls.2014.00004.
- National Center for Biotechnology Information. 2018. *Oxalic Acid*. https://pubchem.ncbi.nlm.nih.gov/compound/oxalic_acid#section=Information-Source. Diakses pada 06 Mei 2022.
- National Center for Biotechnology Information. (2018). *Salicylic Acid*. <https://pubchem.ncbi.nlm.nih.gov/compound/338#section=Top>. Diakses pada 06 Mei 2020.
- Nugroho, H., Purnomo, dan I. Sumardi. 2012. Struktur dan Perkembangan Tumbuhan. Penebar Swadaya. Jakarta, hlm. 72-73.

- Olowoboko, T. *et al.* (2017). Growth and Uptake in Maize as Influenced by NPK Fertilizer in Green House Experiment. *International Journal of Plant & Soil Science*, 17(3): 1–10. doi: 10.9734/ijpss/2017/34399.
- Pacheco, A.C., Cabral, C. S., Fermino, E., da Silva, S., and Aleman, C. C. 2013. Salicylic Acid-Induced Changes to Growth, Flowering and Flavonoids Production in Marigold Plants. *Global Sci. Research J.* 1(1): 95-100.
- Pebrianti, C., Ainurrasyid, R. B., Purnamaningsih, L., Leaf, R., & Merah, B. (2015). Uji Kadar Antosianin Dan Hasil Enam Varietas Tanaman Bayam Merah (*Alternanthera Amoena Voss*) Pada Musim Hujan. *Jurnal Produksi Tanaman*, 3(1), 27–33.
- Pérez-Llorca, M., Munoz Paula., Muller Maren., and Munne Bosh Sergi. (2019). Biosynthesis, metabolism and function of auxin, salicylic acid and melatonin in climacteric and non-climacteric fruits', *Frontiers in Plant Science*, 10(2): 1–10. doi: 10.3389/fpls.2019.00136.
- Pye, M. F., F. Hakuno, J. D. MacDonald, R. M. Bostock. (2013). Induced Resistance in Tomato by SAR Activators during Predisposing Salinity Stress. *Frontiers Research*. 4 (116): 1-9.
- Rahayu, S. T., Asgar, A., Hidayat, I. M., & Djuariah, D. (2013). Quality Evaluation of Some Genotype of Spinach (*Amaranthus sp.*) Cultivated in West Java. *Berita Biologi* 12(2): 153–160.
- Ramadan, M., & Shalaby, O. (2018). Effect of Salicylic Acid and Mannitol on White Cabbage Plants under Saline Conditions. *Journal of Plant Production*, 9(4): 397–402. <https://doi.org/10.21608/jpp.2018.35766>.
- Rasyid, M., Irawati, M. H. and Saptasari, M. (2017). Anatomi Daun *Ficus Racemosa* L. (Biraeng) Dan Potensinya Di Taman Nasional Bantimurung Bulusaraung. *Jurnal Pendidikan*, 2(6): 861–866.
- Rengku, P.M., A. Ridhay dan Prismawiryanti. (2017). Ekstraksi dan Uji Stabilitas Betasianin dalam Ekstrak Buah Kaktus (*Opuntia elatior* Mill.). *Jurnal Kovalen*. 3 (2): 142-149.
- Rivas-San Vicente, M. and Plasencia, J. (2011). Salicylic acid beyond defence: Its role in plant growth and development. *Journal of Experimental Botany*, 62(10): 3321–3338. doi: 10.1093/jxb/err031.
- Rodrigues-Brandão, I., Moraes Kleinowski, A., Millech Einhardt, A., Lima Luciano, C., Amarante Jose, D., and Peters Eugina, A. (2014). Salicylic acid on antioxidant activity and betacyanin in production from leaves of *Alternanthera tenella*. *Ciencia Rural*, 44(10): 1893–1898. doi: 10.1590/0103-8478cr20130873.
- Sah, S. K., K. R. Reddy & J. Li. 2016. Abscisic Acid and Abiotic Stress Tolerance in Crop Plants. *Frontiers in Plant Science*. 7: 571-591.

- Salazar-Cerezo, S. *et al.* (2018). Gibberellin biosynthesis and metabolism: A convergent route for plants, fungi and bacteria. *Microbiological Research*. Elsevier, 208: 85–98. doi: 10.1016/j.micres.2018.01.010.
- Sambamurthy, A.V.S.S. (2005). *Taxonomy of Angiospermae*. International Pvt. New Delhi.
- Schmidt, R., D. Mieulet, H. M. Hubberten, T. Obata, R. Hoefgen, A. R. Fernie, J. Fisahn, B. S. Segundo, E. Guiderdoni, J. H. M. Schippers & B. Mueller-Roeber. (2013). Salt-Responsive ERF1 Regulates Reactive Oxygen Species-Dependent Signaling During the Initial Response to Salt Stress in Rice. *Plant Cell*. 25 (6):2115 – 2131.
- Senaratna, T., Touchell, D., Bunn, E., and Dixo, K. (2000). Acetyl salicylic acid (Aspirin) and salicylic acid induce multiple stress tolerance in bean and tomato plants. *Plant Growth Regulation*, 30(2): 157–161. doi: 10.1023/A:1006386800974.
- Shaheen, M. R. *et al.* (2019). Salicylic acid improved the heat tolerance by enhancing growth, gas exchange attributes and chlorophyll contents of tomato. *Acta Horticulturae*, 1257(11): 161–168. doi: 10.17660/ActaHortic.2019.1257.23.
- Shakirova, F. M., A. R. Sakhabutdinova, M. V. Bezrukova, R. A. Fatkhutdinova, D. R. Fatkhutdinova. (2003). Changes in the Hormonal Status of Wheat Seedlings Induce by Salicylic Acid and Salinity. *Plant Science*. 164 (3): 37 – 322.
- Sharma, P. *et al.* (2012). Reactive Oxygen Species, Oxidative Damage, and Antioxidative Defense Mechanism in Plants under Stressful Conditions. *Journal of Botany*. 1–26. doi: 10.1155/2012/217037.
- Shyfa, C. B. A. and Dewi, K. (2021). Growth, oxalate and vitamin c content of red amaranth (*Amaranthus tricolor* L.) treated with salicylic acid. *Journal of Biosciences*, 28(1): 23–30. doi: 10.4308/hjb.28.1.23.
- Srivastava, R. (2017). An updated review on phyto-pharmacological and pharmacognostical profile of *Amaranthus tricolor*: A herb of nutraceutical potentials. *The Pharma Innovation Journal*, 6(6): 124–129.
- Stenis, C. G. G. J. 1978. *Flora: Untuk Sekolah di Indonesia*. Pradnya Paramita. Jakarta, hlm.185-188.
- Sutedjo, M. M. 2010. *Pengantar Ilmu Tanah Terbentuknya Tanah dan Tanah Pertanian*. Rineka Cipta. Jakarta.
- Tang, Y. *et al.* (2011). The Use of HPLC in Determination of Endogenous Hormones in Anthers of Bitter Melon. *Journal of Life Sciences*, 5: 139–142.
- Tooulakou G., A. Giannopoulos, D. Nikolopoulos, P. Bresta, E. Dotsika, M. G. Orkoula, C. G. Kontoyannis, C. Fasseas, G. Liakopoulos, M. I. Klapa, G. Karabourniotis. (2016). Alarm photosynthesis: Calcium Oxalate crystals as

an internal CO₂ source in plants. *Plant Physiology*. 171:2577–2585

- Torun, H. and Novák, O. (2020). Timing - dependent effects of salicylic acid treatment on phytohormonal changes , ROS regulation , and antioxidant defense in salinized barley (*Hordeum vulgare* L .). *Scientific Reports*. Nature Publishing Group UK. 1–17. doi: 10.1038/s41598-020-70807-3.
- Tounekti, T., I. Hernández & S. Munné-Bosch. (2013). “Salicylic Acid Biosynthesis and Role in Modulating Terpenoid and Flavonoid Metabolism in Plant Responses to Abiotic Stress” dalam Hayat, S., A. Ahmad, M. N. Alyemeni (Editor). *Salicylic Acid Plant Growth And Development*. Springer. London. pp. 141 –154.
- Tsai, J., J. Huang, T. T. Wu, dan Y. H. Lee. (2005). Comparison of Oxalate content in foods and beverages in Taiwan. *JTUA*. 16(3): 93-98
- USDA SR23b (U.S. Department of Agriculture, Agricultural Research Service). (2010). USDA National Nutrient Database for Standard Reference, Release 23. *Basic Report nutrient data for 11457 spinach raw*. [http://ndb.nal.usda.gov/ndb/ foods/show/3151](http://ndb.nal.usda.gov/ndb/foods/show/3151). 05 Mei 2020 pukul 14.50.
- Wani, A. B. *et al.* (2017). Salicylic acid to decrease plant stress. *Environmental Chemistry Letters*. Springer International Publishing, 15(1): 101–123. doi: 10.1007/s10311-016-0584-0.
- Watanabe, S., Y. Ohtani, W. Aoki, Y. Uno, Y. Sukekiyo, and S. Kubokawa. (2018). Detection of betacyanin in red-tube spinach (*Spinacia oleracea*) and its biofortification by strategic hydroponics. *PLoS ONE*. 13(9): e0203656. <https://doi.org/10.1371/journal.pone.0203656>
- Xiong, L. and Zhu, J.-K. (2003). Update on abscisic acid biosynthesis. *Plant Physiology*, 133: 29–36. doi: 10.1104/pp.103.025395.mutant.
- Xiong, J., Y. Yang, G. Fu, and L. Tao. (2015). Novel roles of hydrogen peroxide(H₂O₂) in regulating pectin synthesis and demethylesterification in the cell wall of rice (*Oryza sativa*) root tips. *New Phytologist*. 206:118-126
- Xu, J. and Zhang, S. (2015). Ethylene Biosynthesis and Regulation in Plants. *Ethylene in Plants*, pp. 1–25. doi: 10.1007/978-94-017-9484-8.
- Yarullina, L. G. *et al.* (2015). The effect of salicylic and jasmonic acids on the activity and range of protective proteins during the infection of wheat by the septoriosi pathogen. *Biology Bulletin*, 42(1): 27–33. doi: 10.1134/S1062359014050124.
- Yu, L., Jiang, J., Zhang, C., Jiang, L., Ye, N., Lu, Y., Yang, G., and Liu, E. (2010). Glyoxylate rather than ascorbate is an efficient precursor for oxalate biosynthesis in rice. *Journal of Experimental Botany*, 61(6): 1625–1634. doi: 10.1093/jxb/erq028.

- Zamaninejad, M., Khavari., Khorasani, S., Jami, M.M., Heidarian, A.R. 2013. Effect of salicylic acid on morphological characteristics, yield and yield components of corn (*Zea mays* L.) under drought condition. *Europ. J. of Exp. Biol.* 3(2): 153-161.
- Zhao, Y. (2014). Auxin Biosynthesis. *The Arabidopsis Book*, 12, p. e0173. doi: 10.1199/tab.0173.