



## DAFTAR PUSTAKA

- Arai-Sanoh, Y., T. Ishimaru, A. Ohsumi and M. Kondo. 2010. Effect of soil temperature on growth and root function in rice. *Plant Production Science* 13 (3): 235 – 242.
- Aidoo, M.K., E. Bdolach, A. Fait, N. Lazarovitch. 2016. Tolerance to high soil temperature in foxtail millet (*Setaria italica* L.) is related to shoot and root growth and metabolism. *Plant Physiology and Biochemistry* 106: 73 – 81.
- Barbet-Massin, C., S. Giuliano, L. Alletto, J. Dayde, and M. Berger. 2015. Nitrogen limitation alters biomass production but enhances steviol glycoside concentration in *Stevia rebaudiana* Bertoni. *PloS ONE* 10 (7).
- Brandle, J.E. and P.G. Telmer. 2007. Steviol glycoside biosynthesis. *Phytochemistry* 68: 1855 – 1863.
- Brandle, J.E., A.N. Starratt and M. Gijzen. 1998. *Stevia rebaudiana*: Its agricultural, biological, and chemical properties. *Canadian Journal of Plant Science* 78 : 527-536.
- Ceunen, S and J. M. C. Geuns. 2013a. Influence of photoperiodism on the spatio-temporal accumulation of steviol glycosides in *Stevia rebaudiana* (Bertoni). *Plant Science* 198: 72 – 82.
- Ceunen, S and J. M. C. Geuns. 2013b. Steviol Glycosides: Chemical diversity, metabolism and function. *Journal of Natural Products* 76: 1201 – 1228.
- Chakraborty, S. \_\_\_. Production Variables for an Extraction Unit. <[www.steviashantanu.com](http://www.steviashantanu.com)>. Diakses 25 Juni 2018.
- de Abreu, I. N. and P. Mazzafera. 2005. Effect of water and temperature stress on the content of active constituents of *Hypericum brasiliense* Choisy. *Plant Physiology and Biochemistry* 43: 241 – 248.
- Devaney, V. 2017. How Does Altitude Affect Plant Life. <[www.ehow.co.uk/info\\_8399293\\_altitude-affect-plant-life.html](http://www.ehow.co.uk/info_8399293_altitude-affect-plant-life.html)>. Diakses 2 Januari 2018.
- Dewasari, S. I. 2009. Pengaruh tinggi pangkas terhadap pertumbuhan dan hasil dua kultivar stevia (*Stevia rebaudiana* Bertonii M.). Universitas Gadjah Mada. Skripsi.
- Djajadi. 2014. Pengembangan tanaman pemanis *Stevia rebaudiana* (Bertoni) di Indonesia. *Perspektif* 13: 25 – 33.
- Du, Y.C. and S. Tachibana. 1994. Effect of supraoptimal root temperature on the growth, root respiration and sugar content of cucumber plants. *Scientia Horticulturae* 58: 289 – 301.
- EFSA. 2010. EFSA Evaluates The Safety of Steviol Glycoside. <<https://www.efsa.europa.eu/en/press/news/ans100414>> . Diakses Juli 2017.



Fitter, A.H. and R.K.M. Hay. 2002. Environmental Physiology of Plants. Third Edition. Academic Press, UK.

Fukui, K. 2000. Effects of temperature on growth and dry matter accumulation in mulberry saplings. Plant Production Science 3 (4): 404 – 409.

Gardner, F.P., R.B. Pearce, R.L. Mitchell. 1991. Physiology of Crop Plants (Fisiologi Tanaman Budidaya, alih bahasa: H. Susilo). Universitas Indonesia. Jakarta.

Ghorbani,T., D. Kahrizi, M. Saeidi, and I. Arii. 2017. Effect of sucrose concentrations on *Stevia rebaudiana* Bertoni tissue culture and gene expression. Cell Mol. Biol. 8: 33 – 37. (Abstr.).

Giri, A, S. Heckathorn, S. Mishra, C. Krause. 2017. Heat stress decrease level of nutrient-uptake and assimilation proteins in tomato roots. Plants 6, DOI: 10.3390/plants6010006.

Grimstad, S.O. 1993. The effect of a daily low temperature pulse on growth and development of greenhouse cucumber and tomato plants during propagation. Scientia Horticulturae 53: 53 – 62.

Guleria,P., V. Kumar and S. K. Yadav. 2011. Effet of sucrose on steviol glycoside biosynthesis pathway in *Stevia rebaudiana*. Asian Journal of Plant Sciences 8: 401 – 407.

Hamdani, J. S., Sumadi, Y.R. Suriadinata dan L. Martins. 2016. Pengaruh naungan dan zat pengatur tumbuh terhadap pertumbuhan dan hasil tanaman kentang kultivar atlantik di dataran medium. J. Agron. Indonesia 44 (1): 33 – 39.

Hirai, G., T. Okumura, S. Takeuchi, O. Tanaka and H. Chujo. 2000. Studies on the effect of relative humidity of the atmosphere on the growth and physiology of rice plants. Plant Production Science 3(2): 129 – 133.

Jones, H.G. 2014. Plants and Microclimate : A Quantitative Approach to Environmental Plant Physiology. Cambridge University Press, New York.

Karimi, M., A. Ahmadi, J. Hashemi, A. Abbasi, S. Tavarini, A. Pompeiano, L. Guglielminetti and L.G. Angelini. 2015. The positive role of steviol glycosides in stevia (*Stevia rebaudiana* Bertoni) under drought stress condition. Plant Biosystems. DOI: 10.1080/11263504.2015.1056857.

Kumar, R., S. Sharma, K. Ramesh and B. Singh. 2013. Effects of shade regimes and planting geometry on growth, yield and quality of the natural sweetener plant stevia (*Stevia rebaudiana* Bertoni) in northwestern Himalaya. Archives of Agronomy and Soil Science 59 (7): 963 – 979.

Lafta, A.M. and J. H. Lorenzen, 1995. Effect of high temperature on plant growth and carbohydrate metabolism in potato. Plant Physiology 109: 637 – 643.

Legris, M., C. Klose, E. S. Burgie, C. Costigliolom M. Neme, A. Hiltbrunner, P. A. Wigge, E. Schäfer, R. D. Vierstam and J. Casal. 2016. Phytochrome B integrates light and temperature signals in *Arabidopsis*. Science 10.1126/science.aaf5656.



- Lemus-Mondaca, R., A. Vega-Galvez, L. Zura-Bravo, and K. Ah-Hen. 2012. *Stevia rebaudiana* Bertoni, source of a high-potency natural sweetener: A comprehensive review on the biochemical, nutritional and functional aspects. *Food Chemistry* 132: 1121 – 1132.
- Maiti, C.K., S. Sen, R. Acharya and K. Acharya. 2006. First report of *Alternaria alternata* causing leaf spot on *Stevia rebaudiana*. *New Disease Reports* 2006 14, 22.
- Mandal, S., H. Evelin, B. Giri, V. P. Singh, and R. Kapoor. 2013. Arbuscular mycorrhiza enhances the production of stevioside and rebaudioside-A in *Stevia rebaudiana* via nutritional and non-nutritional mechanisms. *Applied Soil Ecology* 72: 187 – 194.
- Martono, Y., S. Riyanto, A. Rohman and S. Martono. 2016. Improvement method of fast and isocratic RP-HPLC analysis of major glycoside from *Stevia rebaudiana* leaves. *AIP Conference Proceedings* 1755: 080001.
- Mizutani, K and O. Tanaka. 2004. Use of *Stevia rebaudiana* Sweeteners in Japan In: D. Kinghorn (ed). *Stevia: The Genus Stevia*. Taylor & Francis, London.
- Mohamed, A.A.A, S. Ceunen, J.M.C. Geuns, W.V. den Ende, M. D. Ley. 2011. UDP-dependent glycosyltransferases involved in the biosynthesis of steviol glycosides. *Journal of Plant Physiology* 168: 1136 – 1141.
- Pedai, T. 2016. Pemanfaatan jamur mikoriza arbuskular untuk mengendalikan layu fusarium pada tomat dan bercak daun alternaria pada cabai merah. Fakultas Pertanian Universitas Gadjah Mada. Tesis.
- Raini, M. dan A. Isnawati. 2011. Kajian: khasiat dan keamanan stevia sebagai pemanis pengganti gula. *Media Litbang Kesehatan* 21:145 – 156.
- Reeleder, R. 1999. Septoria leaf spot of *Stevia rebaudiana* in Canada and methods for screening for resistance. *Journal Phytopathology* 147 : 605 – 613.
- Rukmana, H. R. 2003. *Budi Daya Stevia*. Kanisius, Yogyakarta.
- Sari, C.R., P. Yudono, dan Tohari. 2015. Pengaruh takaran urea terhadap pertumbuhan dan kandungan steviosida tanaman stevia (*Stevia rebaudiana* Bertoni M.) pada berbagai umur panen di dataran rendah. *Vegetalika* 4: 56 – 69.
- Shivanna, N., M. Naika, F. Khanum and V.K. Kaul. 2013. Antioxidant, anti-diabetic and renal protective properties of *Stevia rebaudiana*. *Journal of Diabetes and Its Complications* 27: 103 – 113.
- Sitompul, S. M. dan Guritno. B. 1995. *Pertumbuhan Tanaman*. UGM Press. Yogyakarta.
- Soejarto, D. D. 2004. Botany of Stevia and *Stevia rebaudiana* In: D. Kinghorn (ed). *Stevia: The Genus Stevia*. Taylor & Francis, London.
- Stenström, A. I.S. Jónsdóttir, and M. Augner. 2002. Genetic and environmental effects on morphology in clonal sedges in the Eurasian Arctic. *American Journal of Botany* 89: 1410 – 1421.



Taiz, L. and E. Zeiger. 2010. Plant Physiology. 4th Edition. Sinauer Associates, USA.

Xu, Q., and B. Huang. 2000. Effects of differential air and soil temperature on carbohydrate metabolism in creeping bentgrass. Crop Science 40: 1368 – 1374.

Yadav, A.K., S. Singh, D. Dhyani, and P.S. Ahuja. 2011. A review on the improvement of stevia [*Stevia rebaudiana* (Bertoni)]. Canadian Journal of Plant Science 91: 1 – 27.

Yaqoob, U., and I.A. Nawchoo. 2017. Impact of habitat variability and altitude on growth dynamics and reproductive allocation in *Ferula jaeschkeana* Vatke. Journal of King Saud University - Science 29: 19 – 27.

Yonghua, L., Tiangxiang L., and Qi L. 2008. Plant height as a simple predictor of root to shoot ratio: Evidence from Alpine grasslands on the Tibetan Plateau. Journal of Vegetation Science 2: 245 – 252.

Yuliana, Soemarno, B. Yanuwiadi and A.S. Leksono. 2015. The relationship between habitat altitude, environmental factors and morphological characteristics of *Pluchea indica*, *Ageratum conyzoides* and *Elephantopus scaber*. OnLine Journal of Biological Sciences 3: 143 – 151.