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KRISNANDA SURYA DHARMA, Dr. Maryani, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Adillah, A. 2016. *Pertumbuhan dan Produksi Beberapa Aksesi Hotong (**Setaria italica** (L.) Beauv.) pada Cekaman Salinitas*. Skripsi. IPB. Bogor, hal.5-6.

Ahmad, A., Hayat, S., Fariduddin, Q., Ahmad, I. 2001. Photosynthetic efficiency of plants of *Brassica juncea* treated with chlorosubstituted auxins. *Photosynthetica*, 39:565-668.

Aini, N. 2013. *Struktur Anatomi Daun Lengkeng (**Dimocarpus longan** Lour.) Kultivar Lokal, Pingpong, Itoh dan Diamond River* (Skripsi). Biologi FMIPA, Universitas Jember. hal.14-19.

Albert, S. 2009. *How to grow sweet corn*. www.harvesttotable.com. Diakses tanggal 15 Januari 2017 pukul 08.30.

Alpaslan, M., Gunes, A., Inal, A. 1996. Effect of salinity on stomatal resistans, proline and mineral composition of pepper. *Journal of Plant Nutrition*, 12(3):415-412.

Alvarado, A.D., Bradford, K.J., Hewitt, J.H. 1987. Osmotic priming of tomato seeds: Effect on germination, field emergence, seedling growth and fruit yield. *Journal of the American Society for Horticultural Science*, 112(3):427-432.

Anthraper, A. & Dubois, J.D. 2003. The effect of NaCl on growth, N_2 fixation and percentage total nitrogen in *Leucaena leucacephala* var K-8. *American Journal of Botany*, 90:683-692.

Arfan, M., Athar, H.R., Ashraf, M. 2007. Does exogenous appliaction of salicylic acid through the rooting medium modulate growth and photosynthetic capacity in two differently adapted spring wheat cultivars under salt stress? *Journal of Plant Physiology*, 164:685-694.

Arif, M., Jan, M.T., Khan, N.U., Khan, A., Khan, M.J., Munir, I. 2010. Effect of seed priming on growth parameters of soybean. *Pakistan Journal of Botany*, 42(2):2803-2812.

Ashri, K. 2006. *Akumulasi Enzim Antioksidan dan Prolin pada Beberapa Varietas Kedelai Toleran dan Peka Cekaman Kekeringan* (Tesis). Sekolah Pascasarjana IPB. Bogor, hal.17-18.

Azooz, M.M. 2009. Salt stress mitigation by seed priming with salicylic acid in two faba bean genotypes differing in salt tolerance. *International Journal of Agriculture and Biology*, 11:343–350.

Bastias, E., Gonzales-Moro, M.B., Gonzales-Munia, C. 2004. *Zea mays* L. *amylacea* from the Lluta Valley (Africa-Chile) tolerates salinity stress when high levels of boron are available. *Plant and Soil*, 267:73-84.

Bates, L.S., Waldren, R.P., Tare, I.D. 1973. Rapid determination of free proline for water-stress studies. *Plant Soil*, 39:205–207.

Beckett, B.S. 1986. *Biologi: A Modern Introduction*. OUP. Oxford, pp.53-54.

UNIVERSITAS
GADJAH MADA
PENGARUH DURASI PRIMING DENGAN ASAM SALISILAT TERHADAP PERTUMBUHAN DAN STRUKTUR ANATOMI DAUN JAGUNG MANIS (Zea mays L.) TERCEKAM SALINITAS
KRISNANDA SURYA DHARMA, Dr. Maryani, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Bernstein, N., Silk, W.K., Lauchli, A. 1993. Spatial and temporal aspects of sorghum leaf growth under conditions of NaCl stress. *Planta*, 191:433-439.

Bhandal, I.S. & Malik, C.P. 1988. Potassium estimation, uptake and its role in the physiology and metabolism of flowering plants. *International Review of Cytology*, 10:205-224.

Boudsocq, M. & Lauriere, C. 2005. Osmotic signaling in plants: multiple patways mediated by emerging kinase families. *Plant Physiology*, 38:11185-1194.

Bougne, S., Job, C., Job, D. 2000. Sugarbeet seed priming: solubilization of the basic subunit of 11-S globulin in individual seeds. *Seed Science Research*, 10:153-161.

Bradford, K.J. 1995. *Seed Development and Germination*. Marcel Dekker, Inc. New York, pp.351-396.

Brede, D. 1992. *Priming and Pre-soaking for Faster Turf Germination*. Landscape Management, p.78.

Brede, J. & Douglas, B. 1993. *Seed Priming*. Hole Notes, pp. 20 - 21.

Broucklehurst, P.A., Dearman, J., Drew, R.L. 1984. Effects of osmotic priming on seed germination and seedling growth in leek. *Scientia Horticulturae*, 24:201-210.

Bustos, R.M., Carcamo, H.J., Fernandez, F.E., Bastias, E.I. 2012. Mitigating effect of salicylic acid in the anatomy of the leaf of *Zea mays* L. Illuteno ecotype from the Lluata Valley (Arica-Chile) under NaCl stress. *IDESIA*, 30(3):55-63.

Cakmak, I. & Yazici, A.M. 2010. Magnesium: A forgotten element in crop production. *Better Crops*, 94(2):23-25.

Carcamo, H.J., Bustos, R.M., Fernandez, F.E., Bastias, E.I. 2012. Mitigating effect of salicylic acid in the anatomy of the leaf of *Zea mays* L. Iluteno ecotype from the Lluta Valley (Arica-Chile) under NaCl. *Idlesia*, 30(3):55-63.

Carlson, P.S. 1980. *The Biology of Crop Productivity*. Academic Press. New York, pp.136-137.

Chandra, A. & Bhatt, R.K. 1998. Biochemical physiological response to salicylic acid in relation to the systematic acquired resistance. *Photosynthetica* 35:255-258.

Chinnusami, V., Jagendorf, A., Zhu, J. 2005. Understanding and improving salt tolerance in plants. *Crop Science*, 45:437-448.

Chutia, J. & Borah, S.P. 2012. Water stress effects on leaf growth and chlorophyll content but not the grain yield in traditional rice (*Oryza sativa* Linn.) Genotypes of Assam, India II. protein and proline status in seedlings under PEG induced water stress. *American Journal of Plant Science*, 3:971-980.

UNIVERSITAS
GADJAH MADA
PENGARUH DURASI PRIMING DENGAN ASAM SALISILAT TERHADAP PERTUMBUHAN DAN STRUKTUR ANATOMI DAUN JAGUNG MANIS (Zea mays L.) TERCEKAM SALINITAS
KRISNANDA SURYA DHARMA, Dr. Maryani, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Dachlan, A., Kasim, N., Sari, A.K. 2013. Uji ketahanan salinitas beberapa varietas jagung (*Zea mays* L.) dengan menggunakan agen seleksi NaCl. *Biogenesis*, 1(1):9-17.

Delauney, A.J. & Verma, D.P.S. 1993. Proline biosynthesis and osmoregulation in plants. *Plant Journal*, 4:215–223.

Djukri. 2009. Cekaman Salinitas terhadap Pertumbuhan Tanaman, *dalam Prosiding Seminar Nasional Penelitian, Pendidikan dan Penerapan MIPA*. Fakultas MIPA, Universitas Negeri Yogyakarta, 16 Mei 2009.

Effendi, S. 1990. *Bercocok Tanam Jagung*. Jakarta: Yayasan Guna. hal.90-95.

Ekosari, R., Ariyanti, N.A., Widhy, P. 2011. *Priming benih sebagai usaha peningkatan performansi bibit kubis (**Brassica oleracea** var. **capitata**)*. Seminar Nasional Biologi FMIPA, hal.1-7.

El-Sheekh, M.M., 2004. Inhibition of the water splitting system by sodium chloride stress in the green alga *Chlorella vulgaris*. *Brazilian Journal of Plant Physiology*, 16: 25-29.

Farahmandfar, E., Shirvan, M.B., Sooran, S.A., Hoseinzadeh, B. 2013. Effect of seed priming on morphological and physiological paramaters of fenugreek seedlings under salt stress. *IJACS Journal*, 5(8):811-815.

Fariduddin, Q., Hayat, S., Ahmad, A. 2003. Salicylic acid influences net photosynthetic rate, carboxylation efficiency, nitrate reductase activity, and seed yield in *Brassica juncea*. *Photosynthetica*, 41:281-283.

Franklin, L.C. 2013. *The Oxford Encyclopedia of Food and Drink in America 2nd Edition*. OUP. Oxford, pp.551-558.

Freeling, M. & Virginia, W. 1994. *The Maize Handbook*. Springer-Verlag. New York, pp.17-27.

Fricke, W., Akhirova, G., Veselov, D., Kudoyarova, G. 2004. Rapid and tissue-specific changes in ABA and in growth rate in response to salinity in barley leaves. *Journal of Experimental Botany*, 55(399):1115-1123.

Ghai, N., Setia, R.C., 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.

Ginting, R. 1995. *Bertanam Jagung Manis*. Jakarta: Penebar Swadaya. hal.52-54.

Glenn, E.P. & Brown, J.J. 1999. Salt tolerance and crop potential of halophytes. *Critical Reviews in Plant Sciences*, 18:227–255.

GTAC, 2016. *Measuring Stomatal Density (Leaf Impression Method)*. Gene Technology Access Centre. Victoria, pp.1-4.

Gunes, A., Inal A., Alpaslan, M., Eraslan, F., Guneri, E., Cicek, N. 2007. Salicylic acid changes on some physiological parameters symptomatic for oxidative stress and mineral nutrition in maize (*Zea mays* L.) grown under salinity. *Journal of Plant Physiology*, 164:728-736.

UNIVERSITAS
GADJAH MADA
PENGARUH DURASI PRIMING DENGAN ASAM SALISILAT TERHADAP PERTUMBUHAN DAN STRUKTUR ANATOMI DAUN JAGUNG MANIS (Zea mays L.) TERCEKAM SALINITAS
KRISNANDA SURYA DHARMA, Dr. Maryani, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Harborne, J.B. 1998. *Phytochemical Methods: A Guide to Modern Techniques of Plant Analysis 3rd Edition*. Chapman & Hall. London, pp. 227-229.

Harris, D. 1996. The effect of manure, genotype, seed priming, depth and date of sowing on the emergence and early growth of *Sorghum bicolor* L. Moench in semi-arid Botswana. *Soil and Tillage Research*, 40:73-88.

Hayat, S. Fariduddin, Q., Ali, B., Ahmad, A. 2005. Effect of salicylic acid on growth and enzyme activities of wheat seedlings. *Acta Agronomica Hungarica*, 53:433-437.

Hayat, S., Hasan, S.A., Fariduddin, Q., Ahmad, A. 2008. Growth of tomato in response to salicylic acid under water stress. *Journal of Plant Interactions*, 3:297-304.

Helmenstine, T. 2016. *Salicylic Acid Chemical Structure*. www. chemistry.about.com. Diakses tanggal 23 Januari 2017 pukul 18.55.

Herlina, N.F.N. & Aziz, S.A. 2016. Peningkatan viabilitas benih jintan hitam (*Nigella sativa*) dengan *hidropriming* dan pemberian asam giberelat. *Buletin Penelitian Tanaman Rempah dan Obat*, 27(2):129-136.

Hernandez, J.A., Ferrer, M.A., Jimenez, A., Ros-Barcelo A., Sevilla, F. 2001. Antioxidant system and O_2-/H_2O_2 production in the apoplast of *Pisum sativum* L. leaves: its relation with NaCl-induced necrotic lessions in minor veins. *Plant Physiology*, 127:817-834.

Herrera-Vásquez, A., Salinas, P., Holuigue L. 2015. Salicylic acid and reactive oxygen species interplay in the transcriptional control of defense genes expression. *Frontiers in Plant Science*, 6:171-178.

Heuer, B. 1994. *Osmoregulatory role of proline in water stress and salt-stressed plants (Handbook of Plant and Crop Stress)*. Marcel Dekker Pub. New York, pp.363-371.

Hu, Y., Fromm, J., Schmidhalter, U. 2005. Effect of salinity on tissue architecture in expanding wheat leaves. *Planta* 220:838-848.

Hyene, K. 1987. *Tumbuhan Berguna Indonesia. Balai Penelitian dan Pengembangan Kehutanan*. Departemen Kehutana Bogor, pp.12-30.

Imran, M. 2012. *Nutrient Seed Priming Improves Abiotic Stress Tolerance in **Zea mays** L. and **Glycine max** L.* (Dissertation). Institute of Crop Science, Nutritional Crop Physiology, University of Hohenheim, pp.46-55.

Ismail, M.A. 2013. Alleviation of salinity stress in white corn (*Zea mays* L.) plant by exogenous application of salicylic acid. *American Journal of Life Sciences*, 1(6):248–55.

Jamal, Y., Shafi, M., Bakht, J. 2011. Effect of seed priming on growth and biochemical traits of wheat under saline conditions. *African Journal of Biotechnology*, 10(75):127-133.

Janda, T., Gondor, O.K., Yordanova, R., Szalai, G., Pal, M. 2004. Salicylic acid and photosynthesis: signalling and effects. *Acta Physiologiae Plantarum*, 36(10):2537-2546.

UNIVERSITAS
GADJAH MADA
PENGARUH DURASI PRIMING DENGAN ASAM SALISILAT TERHADAP PERTUMBUHAN DAN STRUKTUR ANATOMI DAUN JAGUNG MANIS (Zea mays L.) TERCEKAM SALINITAS
KRISNANDA SURYA DHARMA, Dr. Maryani, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

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):55-68.

Jumali, S.S., Said, I.M., Ismail, I., Zainal, Z. 2011. Genes induced by high concentration of salicylic acid in *Mitragyna speciosa*. *Australian Journal of Crop Science*, 5:296–303.

Kalam, A.P.J.A. 1998. *Competition Science Vision*. Pratiyogita Darpan. New Delhi, p.118.

Kalpana, Khan, A.H., Singh, A.K., Maurya, K.N., Mubeen, Yadava, R.K., Singh, U., Gautam, A.R. 2013. Effect of different seed priming treatments on germination, growth, biochemical changes and yield of wheat varieties under sodic soil. *IJSR*, 4(7):306-312.

Kandil, A.A., Sharief, A.E., Ahmed, S.R.H. 2012. Germination and seedling growth of some chickpea cultivars (*Cicer arietinum* L.) under salinity stress. *Journal of Basic and Applied Sciences*, 8:561-571.

Karp, G. 2010. *Cell and Molecular Biology: Concept and Experiments*. John Willey & Sons. USA, pp.210-212.

Katriani, M. 2013. *Analisis Morfofisiologi dan Hasil Jagung yang Diaplikasikan* ***Trichoderma*** *spp. dan NPK pada Lahan Kering* (Proposal Disertasi). Makassar: Program Pascasarjana Universitas Hasanuddin, pp.14-19.

Khan, M.I.R., Fatma, M. Per, T.S., Anjum, N.A., Khan, N.A. 2015. Salicylic acid-induced abiotic stress tolerance and underlying mechanisms in plants. *Frontiers in Plant Science*, 6:462-497.

Khodary, S.E.A. 2004. Effect of salicylic acid on the growth, photosynthesis and carbohydrate metabolism in salt stressed maize plants. *International Journal of Agriculture and Biology*, 6:5-8.

Kumar, A. 2009. *Plant Tissue Culture and Molecular Markers*. IK International Publishing House Pvt.Ltd. India, pp.641-642.

Landino, L.M., Koumas, M.T., Mason, C.E., Alston, J.A. 2007. Modification of tubulin cysteines by nitric oxide and nitroxyl donors alters tubulin polymerization activity. *Chemical Research in Toxicology*, 20(11):693-700.

Lestari, E.G. 2006. Hubungan antara kerapatan stomata dengan ketahanan kekeringan pada somaklon padi Gajah Mungkur, Towuti dan IR 64. *Biodiversitas*, 7(2):44-48.

Li, G., Peng, X., Wei, L., Kang, G. 2013. Salicylic acid increases the contents of glutathione and ascorbate and temporally regulates the related gene expression in salt-stressed wheat seedlings. *Gene.*, 529(2):1-5.

Li, N., Parsons, B.L., Liu, D.R., Mattoo, A.K. 1992. Accumulation of wound-inducible ACC synthase transcript in tomato fruit is inhibited by salicylic acid and polyamines. *Plant Molecular Biology*, 18:477-487.

UNIVERSITAS
GADJAH MADA
PENGARUH DURASI PRIMING DENGAN ASAM SALISILAT TERHADAP PERTUMBUHAN DAN STRUKTUR ANATOMI DAUN JAGUNG MANIS (Zea mays L.) TERCEKAM SALINITAS
KRISNANDA SURYA DHARMA, Dr. Maryani, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Li, T., Hu, Y., Du, X., Tang, H., Shen, C., Wu, J. 2014. Salicylic acid alleviates the adverse effects of salt stress in *Torreya grandis* cv. Merrillii seedlings by activating photosynthesis and enhancing antioxidant systems. *PLoS ONE*, 9(10): e109492.

Liming, S., Orecutt, D.M., Foster, J.G. 1992. Infulence of PEG and aeration method during imbibiton on germination and subsequent seedling growth of flatpea (*Lashyrus sylvestris*). *Seed Science and Technology*, 20:349-357.

Lubis, M.S. 2008. *Pertumbuhan dan Kandungan Protein Jagung di bawah Cekaman NaCl*. Jurusan Pendidikan Biologi UNY. Yogyakarta. hal.14-18.

Mahajan, S. & Tuteja, N. 2005. Cold, salinity and drought stresses: An overview. *Archives of Biochemistry and Biophysics*, 444:139-158.

Massa, D., Mattson, N.S., & Heinrich, J.L. 2009. Effects of saline root environment (NaCl) on nitrate and potassium uptake kinetics for rose plants: A Michaelis-Menten modelling approach. *Plant and Soil*, 318:101-115.

McDaniel, 2001. *Adaptation of C4 leaves (corn)*. www.mcdaniel.edu. Diakses tanggal 12 Januari 2017 pukul 11.40.

Mert, H.H. & Vardar, Y. 1977. Salinity, osmotic pressure and transpiration relationships of *Salicornia herbacea* in its natural habitat. *Phyton*, 18(1):71-78.

Miller, G., Suzuki, N., Ciftci-Yilmaz, S., Mittler, R. 2010. Reactive oxygen species homeostasis and signalling during drought and salinity stresses. *Plant Cell and Environment*, 33:453–467.

Morais, M.C., Panuccio, M.R., Muscolo, A., Freitas, H. 2012. Does salt stress increase the ability of the exotic legume *Acacia longifolia* to compete with native legumes in sand dune ecosystems. *Environmental and Experimental Botany*, 82:74–79.

Mozafariyan, M., Saghafi, K., Bayat, A.E., Bakhtiari, S. 2013. The effects of different sodium chloride concentrations on the growth and photosynthesis paramaters of tomato (*Lycopersicum esculentum* cv. Foria). *IJACS Journal*, 6(4):203-207.

Muhsanati, M., Syarif, A., Rahayu, S. 2006. Pengaruh beberapa takaran kompos tithonia terhadap pertumbuhan dan hasil tanaman jagung manis (*Zea mays saccharata*). *Jurnal Jerami*, 1(2):87-91.

Mukhtar, K., Afzal, I., Qasim, M., Basra, S.M.A., Shahid, M. 2013. Does priming promote germination and early stand establishment of french marigold (*Tagetes patula* L.) seeds by inducing physiological and biochemical changes? *Acta Scientiarum Polonorum Hortorum Cultus* 12(3):12-31.

Munns, R. & Tester, M. 2008. Mechanisms of salinity tolerance. *Annual Review of Plant Biology*, 59:651-681.

Nawaz, J., Hussain, M., Jabbar, A., Nadeem, G.A., Sajid, M., Subtain, M., Shabbir, I.. 2013. Seed priming a technique. *IJACS*, 6(20):1373-1381.

UNIVERSITAS
GADJAH MADA
PENGARUH DURASI PRIMING DENGAN ASAM SALISILAT TERHADAP PERTUMBUHAN DAN STRUKTUR ANATOMI DAUN JAGUNG MANIS (Zea mays L.) TERCEKAM SALINITAS
KRISNANDA SURYA DHARMA, Dr. Maryani, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Nazar, R., Umar, S., Khan, N.A. 2015. Exogenous salicylic acid improves photosynthesis and growth through increase in ascorbate-glutathione metabolism and S assimilation in mustard under salt stress. *Plant Signaling and Behavior*, 10(3):e1003751.

Neumann, P. 1997. Salinity resistance and plant growth revisited. *Plant Cell Environ*., 20:1193-1198.

Nugraheni, I., Solichatun, Anggarwulan, E. 2003. Pertumbuhan dan akumulasi prolin tanaman orok-orok (*Crotalaria juncea* L.) pada salinitas $CaCl_2$ Berbeda. *BioSMART*, 5(2):98-101.

Omoto, E., Taniguchi, M., Miyake, H. 2012. Adaptation responses in C4 photosynthesis of maize under salinity. *Journal of Plant Physiology*, 169:469-477.

Palma, F., López-Gómez, M., Tejera, N.A., Lluch, C. 2013. Salicylic acid improves the salinity tolerance of *Medicago sativa* in symbiosis with *Sinorhizobium meliloti* by preventing nitrogen fixation inhibition. *Plant Science*, 208:75-82.

Palungkun, R. & Asiani, B. 2004. *Sweet Corn-Baby Corn: Peluang Bisnis, Pembudidayaan dan Penanganan Pasca Panen*. Penebar Swadaya. Jakarta, hal.79.

Pangaribuan, N. 2001. Hardening dalam Upaya Mengatasi Efek Toksik pada Tanaman Bayam (*Amaranthus* sp.). *Jurnal Matematika, Sains dan Teknologi*, 2(1):25-29.

Parera, C.A. & Cantliffe, D.J. 1994. Presowing seed priming. *Horticultural Reviews*, 16:110-130.

Purwono, M. & Hartono, R. 2007. *Bertanam Jagung Manis*. Penebar Swadaya. Bogor, hal.68.

Putri, H.A. 2011. *Pengaruh Pemberian Beberapa Konsentrasi Pupuk Organik Cair Lengkap (POCL) Bio Sugih terhadap Pertumbuhan dan Hasil Tanaman Jagung Manis (**Zea mays saccharata** Sturt.)*. Skripsi. Universitas Andalas. Padang, hal.48.

Ramayani, Basyuni, M., Agustina, L. 2012. Pengaruh salinitas terhadap pertumbuhan dan biomassa semai dan kandungan lipida pohon non-sekresi *Ceriops tagal. Peronema Forestry Science Journal*, 1(1):1-9.

Reddy, L.V., Ching, T.M., Metzer, R.J. 1984. Alpha-amylase activity in wheat kernels matured and germinated under different temperature conditions. *Cereal Chem.*, 61:228-231.

Rehman, H., Farooq, M., Basra, S.M.A., Afzal, I. 2011. Hormonal priming with salicylic acid improves the emergence and early seedling growth in cucumber. *Journal of Agriculture and Social Science*, 7:109-113.

Romero-Aranda, R., Soria, T., Cuartero, J. 2001. Tomato plant-water uptake and plant-water relationship under saline growth conditions. *Plant Science*, 160:265-272.

UNIVERSITAS
GADJAH MADA
PENGARUH DURASI PRIMING DENGAN ASAM SALISILAT TERHADAP PERTUMBUHAN DAN STRUKTUR ANATOMI DAUN JAGUNG MANIS (Zea mays L.) TERCEKAM SALINITAS
KRISNANDA SURYA DHARMA, Dr. Maryani, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Schidlowski, M., Golubic, S., Kimberley, M.M., McKirdy, D.M., Trudinger, P.A. 1988. *Early Organic Evolution: Implications for Mineral and Energy Resources*. Springer-Verlag. Berlin, pp.490-492.

Sedghi, M., Bahman, A.B., Javad, B. 2014. Physiological enhancement of medicinal pumpkin seeds (*Cucurbita pepo* var. *styriaca*) with differend priming methods. *Iranian Journal of Plant Physiology*, 5(1):1209-1215.

Shah, Y. 2017. *Isobilateral (monocotyledonous) leaf*. www.scientopia.net. Diakses tanggal 24 Januari 2017 pukul 09.21.

Shakirova, F.M., Sakhabutdinova, A.R., Bezrukova, M.V., Fatkhutdinova, R.A., Fatkhutdinova, D.R. 2003. Changes in the hormonal status of wheat seedlings induced by salicylic acid and salinity. *Plant Science*, 164:317-322.

Sinay, H. 2015. *Pengaruh perlakuan cekaman kekeringan terhadap pertumbuhan dan kandungan prolin pada fase vegetatif beberapa kultivar jagung lokal dari pulau Kisar, Maluku di rumah kaca*. Malang: Prosiding Seminar Nasional Pedidikan Biologi 2015. pp.228-234.

Singh, B. & Usha, K. 2003. Salicylic acid induced physiological and biochemical changes in wheat seedlings under water stress. *Plant Growth Regulation*, 39:137-141.

Sinha, R.K. 2004. *Modern Plant Physiology*. Alpha Science International Ltd. UK, pp.461-462.

Subandi, I., Manwan, Blumenschein, A. 1988. *National Coordinated Program: Corn*. Central Research Institute for Food Crops. Bogor, p.83.

Sudaryanto, T., Kustiari, R., Saliem, H.P. 2010. *Analisis Sumber Daya Lahan Menuju Ketahanan Pangan Berkelanjutan*. BPP Pertanian. Jakarta, pp.1-23.

Suwignyo, R.A., Hayati, R., Mardiyanto. 2010. Toleransi tanaman jagung terhadap salinitas dengan perlakuan stress awal rendah. *Jurnal Agrivor*, 10(1):73-83.

Tester, M. & Davenport, R.J. 2003. Na^+ tolerance and Na^+ transport in higher plants. *Annals of Botany*, 91: 503–527.

USDA, 2016. *Plants Profile for Zea mays (Corn)*. www.plants.usda.gov. Diakses tanggal 15 Januari 2017 pukul 08.35.

Wang, H., Wang, S., Lu, Y., Alvarez, S., Hicks, L.M., Ge, X., Xia, Y. 2012. Proteomic analysis of early-responsive redox-sensitive proteins in *Arabidopsis*. *Journal of Proteome Research*, 11(1):412-424.

Wang, Y., Mopper, S. Hasenstein, K.H. 2001. Effects of salinity on endogenous ABA, IAA, JA and SA in *Iris hexagona*. *Journal of Chemical Ecology*, 27(2):327-342.

Wawo, A.H. 2008. Study on seed germination and seedling growth models of sandalwood (*Santalum album* L.) of several mother seed tress in Belu Regency, East Nusa Tenggara. *Biodiversitas* 9(2): 117 - 122.

UNIVERSITAS
GADJAH MADA
PENGARUH DURASI PRIMING DENGAN ASAM SALISILAT TERHADAP PERTUMBUHAN DAN STRUKTUR ANATOMI DAUN JAGUNG MANIS (Zea mays L.) TERCEKAM SALINITAS
KRISNANDA SURYA DHARMA, Dr. Maryani, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Werner, J.E. & Finkelstein, R.R. 1995. Arabidopsis mutants with reduced response to NaCl and osmotic stress. *Physiologia Plantarum*, 93:659-666.

Wu, X.X., Ding, H.D., Chen, J.L., Zhang, H.J., Zhu, W.M. 2010. Attenuation of salt-induced changes in photosynthesis by exogenous nitric oxide in tomato (*Lycopersicon esculentum* Mill. L.) seedlings. African Journal of Biotechnology, 9:7837–7846.

Xie, Z., Zhang, Z.L., Hanzlik, S., Cook, E., Shen, Q.J. 2007. Salicylic acid inhibits gibberellin-induced alpha-amylase expression and seed germination via a pathway involving an abscisic-acid-inducible WRKY gene. *Plant Molecular Biology*, 64(3):293-303

Zadehbagheri, M. 2014. Salicylic acid priming in corn (*Zea mays* L. var. Sc.704) Reinforces NaCl tolerance at germination and the seedling growth stage. *International Journal of Bioscience*, 4(5):187-197.

Zahra, S., Amin, B., Ali, V.S., Ali, Y. Mehdi, Y. 2010. The salicylic acid effect on the tomato (*Lycopersicum esculentum* Mill.) sugar, protein and proline contents under salinity stress. *Journal of Biophysics and Structural Biology*, 2(3):35-41.