DAFTAR PUSTAKA

Abbasi, H.N., Viliana V., Xiwu, L., 2017, "The Influence of the Ratio of Nitrate to Ammonium Nitrogen on Nitrogen Removal in the Economical Growth of Vegetation in Hybrid Constructed Wetlands", *Environments*, 4:24-36.

Abbes, C., Parent, L.E., Karam, A., Isfan, D., 1995, "Effect of NH_4^+: NO_3^- Ratios on Growth and Nitrogen Uptake by Onions", *Plant and Soil*,171: 289-296.

Ali, A., Tucker, T., Thompson, T., Salim, M., 2001, "Effects of Salinity and Mixed Ammonium and Nitrate Nutrition on The Growth and Nitrogen Utilization of Barley", *J. Agron. Crop Sci*, 186:223–228.

Barker, V.A., Mills, H.A., 1980, "Ammonium and Nitrate Nutrition of Horticultural Crops", *Hort. Rev*, 2:395-423.

Bennett, M.D., Johnston, S., Hodnett, G.l., Price, Hj., 2000, "*Allium Cepa* L. Cultivars From Four Continents Compared By Flow Cytometry Show Nuclear DNA Constancy", *Annals of Botany*, 85: 351–357.

Ben-Oliel, G., Kant, S., Naim, M., Rabinowitch, H.D., Takeoka, G.R., Buttery, R.G., et al., 2004, " Effects of Ammonium To Nitrate Ratio and Salinity On Yield and Fruit Quality Of Large and Small Tomato Fruit Hybrids", *J Plant Nutr*, 27:1795–1812.

Bindraban, P.S., Dimkpa, C., Nagarajan, L., Roy, A., Rabbinge, R., 2015, "Revisiting Fertilisers and Fertilization Strategies for Improved Nutrient Uptake by Plants", *Biol. Fertil. Soils*, 51:897–911.

Bower, N.I., Johnston, I.A., 2010, "Targeted Rapid Amplification of cDNA Ends (T-RACE) An Improved RACE Reaction Through Degradation of Non-target Sequences", *Nucleic Acids Research*, 38 (21):1-9.

Britto, D.T., Glass, A.D.M., Kronzucker, H.J., Yaeesh, S.M., 2001, " Cytosolic Concentrations and Transmembrane Fluxes of NH_4^+/NH_3: An Evaluation Of Recent Proposals", *Plant Physiol*, 125:523–536.

Britto, D.T., Kronzucker, H.J., 2002, "NH_4^+ Toxicity in Higher Plants: A Critical Review", *Plant Physiol* ,159:567–584.

Bugarín, M.R., Baca, G.A.C., Martínez, J.H., Tirado, J.L.T., 1998, "Ammonium/Nitrate Ratio and Total Ion Concentration in The Nutrient Solution on *Chrysanthemum* Growth—II. Nutrient Uptake in Leaves", *Terra Latinoamericana*,16 :125-134.

Chen, N., Wei-Min W., Huan-Ling W., 2016, "An Efficient Full-Length cDNA Amplification Strategy Based on Bioinformatics Technology and Multiplexed PCR Methods", *Scientific Reports*, 6:194-206.

Chenchik, A., Diachenko, L., Moqadam, F., Tarabykin, V., Lukyanov, S., Siebert, P.D., 1996. "Full-Length cDNA Cloning and Determination of mRNA 5'and 3' Ends by Amplification of Adaptor-Ligated cDNA", *BioTechniques*, 21:526-534.

Corpet, F., 1988, "Multiple Sequence Alignment with Hierarchical Clustering", *Nucl. Acids Res.*, 16 (22):10881-10890.

Crawford, N.M., Glass, A.D.M., 1998, "Molecular and Physiological Aspects of Nitrate Uptake in Plants", *Trends in Plant Science*, 3 (10):1-7.

Dechorgnat, J., Nguyen, C.T., Armengaud, P., Jossier, M., Diatloff, E., Filleur, S., Daniel-Vedele F., 2011, "From The Soil to The Seeds: The Long Journey of Nitrate in Plants", *J Exp Bot*, 62: 1349–1359.

Gamiely, S., Randle, W.M., Mills, H.A., Smittle, D.A., 1991, "Onion Plant Growth, Bulb Quality, and Water Uptake following Ammonium and Nitrate Nutrition", *Hortscience*, 26(8):1061-1063.

Guo, S., Brück, H., Sattelmacher, B.,2002, "Effects of Supplied Nitrogen Form on Growth and Water Uptake of French Bean (*Phaseolus vulgaris* L.) Plants", *Plant Soil*, 239:267–275.

Hawkins H.J., George E., 2001, "Reduced N-15-Nitrogen Transport Through Arbuscular Mycorrhizal Hyphae to *Triticum aestivum* L. Supplied with Ammonium vs. Nitrate Nutrition", *Ann. Bot*, 87:303–311.

Haynes, R.J., Goh, K.M., 1978, "Ammonium and Nutrition of Plants", *Biol. Rev*, 53:465-510.

Hendrix B., Stewart, J., 2005, "Estimation of The Nuclear DNA Content of *Gossypium* Species", *Annals of Botany*, 95:789–797.

Horchani, F., R'Bia, O., Hajri, R., Aschi-Smiti, S., 2011, "Nitrogen Nutrition and Ammonium Toxicity in Higher Plants", *Int J Bot*, 7:1–16.

Jeong, B.R., Lee, E.J., 1999, "Growth of Plug Seedlings of *Capsicum annuum* as Affected by Ion Concentration and NH_4^+ and NO_3^- Ratio of Nutrient Solution", *Acta Hort*, 481:425-431.

Juan, L., Zhou, J.M., Duan, Z.Q., 2007, "Effects of Elevated CO_2 Concentration on Growth and Water Usage of Tomato Seedlings Under Different Ammonium/Nitrate Ratios", *J. Environ. Sci*, 19:1100–1107.

Kanno, Y., Hanada, A., Chiba, Y., Ichikawa, T., Nakazawa, M., Matsui, M., Koshiba, T., Kamiya, Y., Seo, M., 2012, Identification of an abscisic acid transport by functional screening using the receptor complex as a sensor. Proceedings of the National Academy of Sciences, USA 109, 9653–9658.

Kibbe, W.A., 2007, "Oligocalc: An Online Oligonucleotide Properties Calculator", *Nucleic Acids Res*, 35.

Kirkby, E.A., Knight, A.H., 1977, "Influence of The Level of Nitrate Nutrition on Ion Uptake and Assimilation, Organic Acid Accumulation and Cation-Anion Balance in Whole Tomato Plants", *Plant Physiol*, 60 349-353.

Kolota, E., Adamczewska-Sowinska, K., Uklanska-Pusz, C., 2013, "Response Of Japanese Bunching Onion (*Allium fistulosum* L.) to Nitrogen Fertilization", *Acta Sci. Pol., Hortorum Cultus*, 12(2):51-61.

Koressaar, T., Remm, M., 2007, "Enhancements and Modifications of Primer Design Program Primer3", *Bioinformatics*,23(10):1289-1291.

Kotsiras, A., Olympios, C., Passam, H., 2005, "Effects of Nitrogen Form and Concentration on Yield and Quality of Cucumbers Grown on Rockwool During Spring and Winter in Southern Greece", *J. Plant Nutr,* 28:2027–2035.

Krapp, A., Richard, B., Mathilde, O., Mercey-Boutet, S., Agnes, Y., Loren, C., Samira, E., Hilary, M., Jean-Pierre, R., Daniel-Vedele, F., 2011, "*Arabidopsis* Roots and Shoots Show Distinct Temporal Adaptation Patterns Toward Nitrogen Starvation", *Plant Physiology*, 157:1255–1282.

Krontal, Y., Kamenetsky, R., Rabinowitch, H.D., 2000,"Flowering Physiology and Some Vegetative Traits of Short-Day Shallot: A Comparison With Bulb Onion", *The Journal of Horticultural Science and Biotechnology*, 75(1):35-41.

Kusumawati, D.I., 2015, Identification of Homolog *NRT2.1* Gene On Shallot (*Allium cepa* L. Aggregatum group),Tesis:Universitas Gadjah Mada.

Lasa, B., Frechilla, S., Lamsfus, C., Aparicio-Tejo, P.M., 2001, "The Sensitivity to Ammonium Nutrition is Related to Nitrogen Accumulation", *Sci. Hort*, 9(1):143-152. Li

Liu, S., He H., Gu F., Chen Q., 2009, "Effect of Nitrogen and Sulfur Interaction On Growth and Pungency of Different Pseudostem Types of Chinese Spring Onion (*Allium fistulosum* L.)", *Scientia Horticulturae,* 121:12–18.

Livak, K.J., Schmittgen, T.D., 2001, Analysis of Relative Gene Expression Data Using Real-Time Quantitative PCR and the $2^{-\Delta\Delta Cq}$ Method, *Methods*,25: 402–408.

Menz, J., 2016, Transcriptional and Proteomic Responses Towards Early Nitrogen Depletion in *Arabidopsis thaliana*, Dissertation: Universias Hohenheim Jermany.

Nazoa, P., Widmar, J.J., Tranbargere T.J., et al. 2003. "Regulation of The Nitrate Transporter Gene *AtNRT2.1* in *Arabidopsis Thaliana*: Responses To Nitrate, Amino Acid and Developmental Stage", *Plant Mol. Biol*, 52:689–703.

Okamoto, M., Vidmar, J.J., Anthony, D.M.G., 2003, "Regulation of *NRT1* and *NRT2* Gene Families of *Arabidopsis thaliana*: Responses to Nitrate Provision", *Plant Cell Physiol*, 44(3): 304–317.

Orsel, M., Anne, K., Daniel-Vedele, F., 2002, "Analysis of the *NRT2* Nitrate Transporter Family in *Arabidopsis* Structure and Gene Expression*", Plant Physiology*, 129: 886–896.

Patterson, K., Laura, A.W., Andrew, M.C., Jocelyn, G.O., Miguel, A.R., Allan, G.R., Matthew, A.E., 2016, "Nitrate-Regulated Glutaredoxins Control *Arabidopsis* Primary Root Growth". *Plant Physiology*, 170:989-999.

Rahayu E., Berlian, N.V.A., 1999, *Bawang Merah*, Jakarta : Penebar swadaya.

Rayar, A.J., Hai, V.T., 1977, " Effect Of Ammonium On Uptake of Phosphorus, Potassium, Calcium and Magnesium by Intact Soybean Plants", *Plant Soil*, 48:81–87.

Remans, T., Nacry, P., Pervent, M., Girin, T., Tillard, P., Lepetit, M., Gojon, A., 2006, "A Central Role for the Nitrate Transporter *NRT2.1* in the Integrated Morphological and Physiological Responses of the Root System to Nitrogen Limitation in *Arabidopsis*", *Plant Physiology*, 140:909–921.

Roosta, R.H., Sajjadinia, A., Rahimi, A., Schjoerring, K.J., 2009, "Responses of Cucumber Plant to NH_4^+ and NO_3^- Nutrition: The Relative Addition Rate Technique vs. Cultivation at Constant Nitrogen Concentration", *Sci. Hort*, 121:397-403.

Ruan, J.Y., Gerendas, J., Hardter, R., Sattelmacher, B., 2007, "Effect of Nitrogen form and Root-zone pH on Growth and Nitrogen Uptake of Tea (*Camellia Sinensis*) Plants", *Annals of Botany*, 99:301-310.

Rukmana, R., 1995, *Bawang merah Budidaya Dan Pengolahan Pasca panen*, Jakarta:Kanisius.

Safitri, W., Endang, S., Benito, H.P., Stephen, H., 2017, "Shallot Growth and Yields Based on Ammonium:Nitrate Ratio on Coastal Sandy Soil", *Agricultural Science*, 2(2): 064-069.

Schramm G., Bruchhaus I., Roeder T., 2000, "A simple and Reliable 5'-RACE Approach", *Nucleic acids research*, 28(22):1-4.

Sembiring A., 2017, Determinant Factors for Brebes Shallot Farmers in Selecting Shallot Varieties (Case Study in Brebes, Central Java Indonesia), *IOP Conf. Ser.: Earth Environ. Sci*, 58 : 12-22.

Seminar Nasional Perhimpunan Hortikultura Indonesia, Institut Pertanian Bogor, 2015, Proceeding of Seminar Nasional Perhimpunan Hortikultura Indonesia, Bahrudin dan Ansar, M., Bogor:Pusat Kajian Hortikultura Tropika (PKHT).

Serna, M., Borras, R., Legaz, F., Primo-Millo, E., 1992, " The Influence of Nitrogen Concentration and Ammonium/Nitrate Ratio on N-Uptake, Mineral Composition and Yield of Citrus", *Plant Soil*, 147:13–23.

Smith, I.B., Bennett, M. D., 1975, "DNA Variation In The Genus *Ranunculus*", *Heredity*, 35 (2):231-239.

Stephen, F., Altschul, Thomas, L., Madden, Alejandro, A., Schäffer, Jinghui Z., Zheng, Z., Webb, M., David, J., Lipman, 1997, "Gapped BLAST and PSI-BLAST: A New Generation of Protein Database Search Programs", *Nucleic Acids Res*, 25:3389-3402.

Sudirja, 2007, *Pedoman Bertanam Bawang*, Jakarta:Kanisius.

Tabatabaei, S.J., Fatemib, L.S., Fallahi, E., 2006, "Effect Of Ammonium: Nitrate Ratio on Yield, Calcium Concentration and Photosynthesis Rate in Strawberry", *Plant Nutr*, 29:1273-1285.

Tamura, K., Stecher, G., Peterson, D., Filipski, A., Kumar, S., 2013, "MEGA 6: Molecular Evolutionary Genetics Analysis version 6.0", *Mol. Biol. Evol*, 30, 2725–2729.

Touraine, B., Glass, A.D.M., 1997, "NO_3^- and CLO_3^- Fluxes and The chl1-5 Mutant of *Arabidopsis thaliana*", *Plant Physiol*,114:137-144.

Tsay, Y.F., Chiu, C.C., Tsai, C.B., Ho, C.H., Hsu, P.K., 2007, "Nitrate Transporters and Peptide Transporters",*FEBS Lett*, 581: 2290–2300.

Tuan, P.A., Park I.N., Kim, H.H., Park, S.U., 2010, "Molecular Cloning and Characterization of cDNA Encoding Farnesyl Diphosphate Synthase in Garlic (*Allium sativum*)", *Journal of Agricultural Science*, 37(3): 367-371.

Tylova-Munzarova, E., Lorenzen, B., Brix, H., Votrubova, O., 2005, "The Effects of NH_4^+ and NO_3^- On Growth, Resource Allocation and Nitrogen Uptake Kinetics of Phragmites Australis and *Glyceria maxima*", *Aquat. Bot*, 81:326–342.

Untergasser, A., Cutcutache, I., Koressaar ,T., Ye, J., Faircloth, B.C., Remm, M., Rozen, S.G., 2012, "Primer3 - New Capabilities and Interfaces, *Nucleic Acids Research*, 40(15):1-15.

Vojtíšková, L., Munzarová, E., Votrubová, O., ˇ Rihová, A., Juˇricová, B.,2004, " Growth and Biomass Allocation of Sweet Flag (*Acorus calamus* L.) Under Different Nutrient Conditions", Hydrobiologia, 518:9–22.

Wang, Ya-Yun, Po-Kai H., Yi-Fang T., 2012, "Uptake, Allocation and Signaling of Nitrate", *Trends in Plant Science*,17 (8):1-10.

Wibowo, S. 1999. "Budidaya Bawang Putih, Bawang Putih, Bawang Bombay". Penebar Swadaya. Jakarta.

Widiez, T., Kafafi, E.I., ES., Girin, T., et al., 2011, HIGH NITROGEN INSENSITIVE 9 (HNI9)-mediated systemic repression of root NO3 – uptake is associated with changes in histone methylation. Proceedings of the National Academy of Sciences, USA 108, 13329–13334.

www.ncbi.nlm.nih.gov/

Yeku, O., Frohman, M.A.,2011. "Rapid Amplification of cDNA Ends (RACE)", *Methods Mol Biol*,703:107-122.

Zhang, C., Zhang, H.I., Zhan, Z., Liu, B., Chen, Z., Liang, 2016, "Transcriptome Analysis of Sucrose Metabolism during Bulb Swelling and Development in Onion (*Allium cepa* L.)", *Front. Plant Sci*, 7:14-25.

Zhuo, D.G., Okamoto, M., Vidmar, J.J., Glass, A.D.M., 1999, "Regulation of A Putative High Affinity Nitrate Transporter (*AtNRT2;1*) in Roots of *Arabidopsis thaliana*", *The Plant Journal*,17:563–568.