



DAFTAR PUSTAKA

- Abdel-Fattah G, Asrar A, Al-Amri S, and Abdel-Salam E. 2014. Influence of arbuscular mycorrhiza and phosphorus fertilization on the gas exchange, growth and phosphatase activity of soybean (*Glycine max* L.) plants. *Photosynthetica* 52:581–588.
- Allen M.F. 2001. Modeling arbuscular mycorrhizal infection: is % infection an appropriate variable?. *Mycorrhiza* 10:255-258.
- Allen M.F. 2011. Linking water and nutrients through the vadose zone:a fungal interface between the soil and plant systems. *Journal of Arid Land*, 3: 155–163.
- Alori E.T., M. O. Dare, O. O. Babalola. 2017. Microbial inoculants for soil quality and plant health. *Sustainable Agriculture Reviews*, 281–307
- Anonim. 2011. Palm Oil Green Development Campaign. Worth Growth, Arlington.
- Auge R.M. 2001. Water relation, drought, and vesicular arbuscular mycorrhizal fungi during in vitro development. *Protoplasma*, 174: 62-68.
- Bais H. P., T. L. Weir, L. G. Perry, S. Gilroy, and J. M. Vivanco. 2006. The role of root exudates in rhizosphere interactions with plant and other organisms. *The Annual Review of Plant Biology*. 57: 233-66.
- Balestrini R., E. Lumini, R. Borriello ,and V. Bianciotto, 2015. Plant-soil biota interactions. *Soil Microbiology, Ecology and Biochemistry* 311–338.
- Bécard G. and Y. Piché. 1992. Establishment of vesicular-arbuscular mycorrhiza in rootorgan culture: review and proposed methodology. In: Norris JR, Read DJ, Varma AK, editors. *Methods in microbiology Vol. 24. Techniques for the study of mycorrhiza*. London: Academic Press. 89–108.
- Berruti A., R. Borriello, A. Orgiazzi, Antonio C. Barbera, E. Lumini and V. Bianciotto. 2014. Arbuscular Mycorrhizal Fungi and their Value for Ecosystem Management. *Biodiversity - The Dynamic Balance of the Planet*.
- Berruti A., E. Lumini. R. Balestrini, and V. Bianciotto. 2016. Arbuscular mycorrhizal fungi as natural biofertilizers: let's benefit from past successes. *Frontiers in Microbiology*,
- Blal B. and Gianinazzi-Pearson V. 1990. Interest of endomycorrhizae for the production of microp propagated oil palm clones. *Agriculture, Ecosystems and Environment*, 29: 39-43.
- Blal B., Morel C., Gianinazzi-Pearson V., Fardeau J.C., and Gianinazzi S.. 1990. Influence of vesicular-arbuscular mycorrhizae on phosphate fertilizer



efficiency in two tropical acid soils planted with micropropagated oil palm (*Elaeis guineensis jacq.*). *Biology and Fertility of Soils* 9:43-48.

Brundett M., L. Peterson, L. Melville, H. Addy, T. McGonigle, and G. Schafer. 1993. Anatomy Workshop Handbook. Ninth North American Conference on Mycorrhizae. Canada.

Carter C., W. Finley, J. Fry, D. Jackson, and L. Willis. 2007. Palm oil markets and future supply. *European Journal of Lipid Science and Technology*, 109: 307–314.

Ceballos I, M. Ruiz, C. Fernández, R. Peña, A Rodríguez, and IR Sanders. 2013. The in vitro mass-produced model mycorrhizal fungus, *Rhizophagus irregularis*, significantly increases yields of the globally important food security crop cassava. *Plos One* 8: 8.

Corkidi L., E. B. Allen, D. Merhaut, M. F. Allen, J. Downer, J. Bohn, and Mike Evans. 2004. Assessing the infectivity of commercial mycorrhizal inoculants in plant nursery conditions. *The Journal of Environmental Horticulture*, 22:149–154.

Dodd, J.C., C. L. Boddington, A. Rodriguez, C.Gonzalez-Chavez, and I. Mansur. 2000. Mycelium of Arbuscular Mycorrhizal Fungi (AMF) from different genera: form, function and detection. *Plant and Soil*. 226: 131–151.

Elmes R.P., and B. Mosse. 1984. Vesicular-arbuscular endomycorrhizal inoculum production. II. Experiments with maize (*Zea mays*) and other hosts in nutrient flow culture. *Canadian Journal of Botany* 62:1531–1536.

Feldmann F, and Grotkass C. 2002. Directed inoculum production shall we be able to design AMF populations to achieve predictable symbiotic effectiveness. In: Gianinazzi S, Schüepp H, Barea JM, Haselwandter K (eds) *Mycorrhizal technology in agriculture: from genes to bioproducts*. Birkhauser, Basel. 261–279.

Felsenstein, J. 1985. Confidence limits of phylogenies: an approach using the bootstrap. *Evolution*, 39: 783-791.

Gaur A, and Varma A . 2007. Research methods in arbuscular mycorrhizal fungi. In: Varma A, Oelmüller R (eds) *Soil biology: Advanced Techniques in Soil Microbiology*. Springer, New York, 377-396.

Gianinazzi S. and M. Vosátka. 2010. Inoculum of arbuscular mycorrhizal fungi for production systems: science meets business. *Canadian Journal of Botany*, 82: 1264–1271

Gianinazzi, S., and V. Gianinazzi-Pearson. 1988. Mycorrhizae: a plant's health insurance. *Chimica Oggi*, 56–58.



Habte, M and N.W Osorio. 2001. Arbuscular Mycorrhizas: Producing & Applying Arbuscular Mycorrhizal Inoculum. University of Hawai Press. Manoa.

Habte, M. and N. W. Osorio. 2001. Arbuscular Mycorrhizas: Producing and Applying Arbuscular Mycorrhizal Inoculum. College of Tropical Agriculture and Human Resources University (CTAHR), Hawaii.

Hart M. M. and R. J. Reader. 2002. Does percent root length colonization and soil hyphal length reflect the extent of colonization for all AMF?. *Mycorrhiza*. 12:297-301.

Hung Ling-ling L. and D.M. Sylvia. 1988. Production of vesicular-arbuscular mycorrhizal fungus inoculum in aeroponic culturet. *Applied and Environmental Microbiology*, 353-357.

Ijdo M., S. Cranenbrouck, and S. Declerck. 2011. Methods for large-scale production of AM fungi: past, present, and future. *Mycorrhiza*. 21:1–16.

INVAM (International Culture Collection of (Vesicular) Arbuscular Mycorrhizal Fungi). 2013. Trap Cultures. <https://www.invam.wvu.edu>. Diakses tanggal 27 Januari 2018.

Jasper DA, LK Abbott, and AD Robson. 1989. Hyphae of a vesiculararbuscular mycorrhizal fungus maintain infectivity in dry soil, except when the soil is disturbed. *New Phytologist*, 112:101–107

Klironomos J. N. and M. M. Hart. 2002. Colonization of roots by arbuscular mycorrhizal fungi using different sources of inoculum. *Mycorrhiza*, 12:181–184.

Lee J., S. Lee, and J. P. W. Young. 2008. Improved PCR primers for the detection and identification of arbuscular mycorrhizal fungi. *FEMS Microbiology Ecology*, 62: 69-112.

Lee Y.J., and E. George . 2005. Development of a nutrient film technique culture system for arbuscular mycorrhizal plants. *HortScience*, 40:378–380.

Lubis, A.U. 2008. Kelapa Sawit (*Elaeis guineensis Jacq.*) di Indonesia. Edisi 2. Pusat Penelitian Kelapa Sawit. Sumatera Utara.

Morton J.B., Bentivenga S.P., and Wheeler W.W. 1993. Germplasm in the international collection of arbuscular and vesicular-arbuscular mycorrhizal fungi (INVAM) and procedures for culture, development, documentation and storage. *Mycotaxon*, 48:491–528.



Naher U. A., R. Othman, and Q. A. Panhwar .2013. Beneficial effects of mycorrhizal association for crop production in the tropics - A Review. International Journal Of Agriculture & Biology, 15: 1021–1028.

Nath M., D. Bhatt, R . Prasad, S.S. Gill, N.A. Anjum, N. Tuteja 2016. Reactive oxygen species generation-scavenging and signaling during plant-arbuscular mycorrhizal and *Piriformospora indica* interaction under stress condition. Frontiers in Plant Science, 7:1574

Oehl, F., Sieverding, E., Palenzuela, J., Ineichen, K & Silva, G.A. 2011. Advances in *Glomeromycetes* taxonomy and classification. International Mycological Association Fungus, 2: 191-199.

Panwar J., J.C. Tarafdar, R. S. Yadav, V. K. Saini, G. K. Aseri, dan A. Vyas. 2007. Technique for visual demonstration of germinating arbuscular mycorrhizal spores and their multiplication in pots. Journal of Plant Nutrition Soil Science, 170: 659–663.

Phosri, C., I. R. Sanders, dan P. Jeffries. 2010. The role of mycorrhizas in more sustainable oil palm cultivation. Journal Agriculture Ecosystems and Environment, 135: 187-193.

Rahayu D. 2017. Isolasi dan identifikasi jamur mikoriza arbuskular dari rizosfer tanaman kelapa sawit (*Elaeis guineensis* Jacq.). Universitas Gadjah Mada, Yogyakarta.

Ramos A.C., P.T. Lima, P.N. Dias, M.C.M. Kasuya and J.A. Feijó. 2009. A pH signaling mechanism involved in the spatial distribution of calcium and anion fluxes in ectomycorrhizal roots. New Phytologist, 181:448–462.

Redecker D, Schüßler A, Stockinger H, Stürmer SL, Morton JB, and Walker C. 2013. An evidencebased consensus for the classification of arbuscular mycorrhizal fungi (Glomeromycota). Mycorrhiza, 23: 515–531.

Republik Indonesia. 2011. Peraturan Menteri Pertanian Nomor 70/Permentan/SR.140/10/2011 tentang pupuk organik, pupuk hayati, dan pembenah tanah. Menteri Pertanian, Jakarta.

Rillig, M.C and Daniel L.M. 2006. Mycorrhizas and soil structure. New Phytologist, 171: 41-53.

Rodriguez A, and Sanders IR.2015. The role of community and population ecology in applying mycorrhizal fungi for improved food security.

Sadhana, B. 2014. Arbuscular mycorrhizal fungi (AMF) as a biofertilizer - a review. International Journal Current Microbiology and Applied Sciences, 3: 384-400.



Schultz, C., 2001. Effect of (vesicular-) Arbuscular Mycorrhiza on Survival and Post Vitro Development of Micropropagated Oil Palms (*Elaeis guineensis Jacq.*). Dissertation. Göttingen.

Schüßler A. and C. Walker 2010. The Glomeromycota: a species list with new families. The Royal Botanic Garden Edinburgh, The Royal Botanic Garden Kew, Botanische Staatssammlung Munich, and Oregon State University.

Schüßler T. R. , I. R. Sanders1, C. Keel, and J. R. van der Meer. 2010. Characterisation of microbial communities colonising the hyphal surface of arbuscular mycorrhizal fungi. The ISME Journal, 1: 751-763.

Selvakumar G., R. Krishnamoorthy, K. Kim, and T. Sa. 2016. Propagation technique of arbuscular mycorrhizal fungi isolated from coastal reclamation land. European Journal of Soil Biology, 74: 39-44.

Shamini, S., and K. Amutha. 2014. Techniques for extraction of arbuscular mycorrhizal fungi spore. International Journal of Frontiers in Sciens and Technology, 2: 1-6.

Silva F.S.B., Yano-Melo A.M., Brandão J.A.C, and Maia L.C . 2005. Sporulation of arbuscular mycorrhizal fungi using Tris-HCl buffer in addition to nutrient solutions. Brazilian Journal of Microbiology, 36: 327-332.

Simpson D. and M.J. Daft.1990. Spore production and mycorrhizal development in various tropical crop hosts infected with *Glomus clarum*. Plant and Soil, 121: 171-178.

Smith, S.E., and D.J. Read. 2008. Mycorrhizal Symbiosis 3rd. Academic Press, New York.

Souza, T. 2015. Handbook of Arbuscular Mycorrhizal Fungi. Springer International Publishing, Switzerland.

Steinkellner .S, V. Lendzemo, I. Langer, P. Schweiger, T. Khaosaad, J.P. Toussaint & H. Vierheilig. 2007. Flavonoids and strigolactones in root exudates as signals in symbiotic and pathogenic plant-fungus interactions. Molecules. 12: 1290-1306.

Struble, J.E. and H.D. Skipper. 1988. Vesicular-arbuscular mycorrhizal fungal spore production as influenced by plant species . Plant and Soil, 109: 277-280.

Symanczik, S., J. Błaszkowski, S. Koegel, T. Boller, A. Wiemken, and M.N. Al-Yahya'ei. 2014. Isolation and identification of desert habituated arbuscular mycorrhizal fungi newly reported from the Arabian Peninsula. Journal Arid Land, 6:488–497.



- Taylor, D.L., W.A. Waltersb, N.J. Lennonc, J. Bochicchioc, A. Krohnd, J.G. Caporasod, and T. Pennanene. 2016. Accurate estimation of fungal diversity and abundance through improved lineage-specific primers optimized for illumina amplicon sequencing. *Applied and Environmental Microbiology*, 82:7217-7226.
- van Bruggen, A. H. C., A. J. Termorshuizen, A. M. Semenov. 2000. Hyphal growth and colony expansion. *New Phytologist*, 146: 355–356.
- Veiga R. S. L., A. Faccio, A. Genre, C. M. J. Pieterse, P. Bonfante, And M. G. A. Van Der Heijden. 2013. Arbuscular mycorrhizal fungi reduce growth and infect roots of the non-host plant *Arabidopsis thaliana*. *Plant, Cell and Environment*, 36: 1926–1937.
- von Alten, H., B. Bla1, J.C. Dodd, F. Feldmann, and M. Vosatka. 2002. Quality control of arbuscular mycorrhizal fungi inoculum in Europe”, in Gianinazzi, S., H. Schuepp, J.M. Barea and K. Haselwandter (editor) Mycorrhizal Technology in Agriculture. Springer Science & Business Media, Switzerland.
- Widiastuti H., N. Sukarno, L. K. Darusman, D. H. Goenadi, S. Smith Dan E. Guhardja. 2005. Penggunaan spora cendawan mikoriza arbuskula sebagai inokulum untuk meningkatkan pertumbuhan dan serapan hara bibit kelapa sawit. *Menara Perkebunan*, 73;26-34.