

## DAFTAR PUSTAKA

- Abdel-Fattah, G.M., & Shabana, Y.M. (2002). Efficacy of the arbuscular mycorrhizal fungus *Glomus clarum* in protection of cowpea plants against root rot pathogen *Rhizoctonia solani*. *Journal of Plant Disease Protection*, 109, 207-215.
- Aggangan, N.S., Dell, B., & Malakezuk, N. (1998). Effect of chromium and nickel on growth of the ectomycorrhizal fungus *Pisolithus* dan formation of ectomycorrhizae on *Eucalyptus urophylla*. *Geoderma*, 84, 33–39.
- Agrios, G. N. (2005). *Plant Pathology* (5th ed.). New York: Academic Press.
- Anitha, A., & Rabeeth, M. (2009). Control of fusarium wilt of tomato by bioformulation of *Streptomyces griseus* in green house condition. *Africa Journal of Basic and Applied Science*, 1(2), 9-14.
- Auli, N. R., & Kasiamdari, R. S. (2019). Produksi Inokulum Vesikular Arbuskular Mikoriza pada Inang *Sorghum bicolor* (L.) Moench dengan Variasi Jenis Inokulum dan Pupuk NPK. *Jurnal Riset Biologi Aplikasinya*, 1(2), 80-86.
- Avola, A. C., Ochoa, J., Proano, K., & Martinez, M. C. (2019). Jasmonic acid and nitric oxide protect naranjilla (*Solanum quitoense*) against infection by *Fusarium oxysporum* f. sp. *quitoense* by eliciting plant defense responses. *Physiological and Molecular Plant Pathology*, 129-136.
- Brundrett, M., Bougher, N., Dell, B., Grove, T., & Malajczuk, N. (1996). *Working with Mycorrhizas in Forestry and Agriculture*. Canberra: ACIAR Monograph.
- Buddenhagen, I. (2009). Understanding strain diversity in *Fusarium oxysporum* f.sp. *cubense* and history of introduction of 'tropical race 4' to better manage banana production. *Act Hort.*, 828, 193–204.
- CABI. (2022). Centre for Agriculture and Biosciences International. <https://www.cabi.org/isc/datasheet/24677>. Accessed on March 1<sup>st</sup> 2022.

- Castillo, A. G., Puig, C. G., & Cumagun, C. J. R. (2019). Non-Synergistic Effect of *Trichoderma harzianum* and *Glomus* spp. in Reducing Infection of Fusarium Wilt in Banana. *Pathogens*, 8(43), 1–8.
- Couteaudier, Y., & Alabouvette, C. (1990). Survival and inoculum potential of conidia and chlamydospores of *Fusarium oxysporum* f. sp. lini in soil. *Can. J. Microbiol.*, 36, 551-556.
- Devo, L. Y., Andari, Y., Wihastuti, L., & Haribowo, R. K. (Year not provided). Model Sosial-EKonomi dan Ketahanan Pangan Rumah Tangga di Indonesia. *Jurnal Ekonomi dan Pembangunan*, 28(2), 103-117.
- Dita, M., Barquero, M., Heck, D., Mizubuti, E. S. G., & Staver, C. P. (2018-10-19). Fusarium Wilt of Banana: Current Knowledge on Epidemiology and Research Needs Toward Sustainable Disease Management. *Frontiers in Plant Science*, 9, 146.
- Djakirana, G., & Sijabata, P. H. (2022). Pengaruh Media Tanama Terhadap Pertumbuhan Bibit Tanaman Cabai (*Capsicum annum* L.) dan Intensitas Serangan Layu Fusarium (*Fusarium oxysporum* Schleth).
- Sari, W., Wiyono, S., Nurmansyah, A., Munif, A., & Poerwanto. (2017). Keanekaragaman *Fusarim* spp. Asal Beberapa Kultivar Pisang. *Jurnal Fitopatologi Indonesia*, 13(6), 216-228.
- Drenth, A., & Guest, D. I. (2016). Fungal and Oomycete Diseases of Tropical Tree Fruit Crops. *Annual Review of Phytopathology*, 54(1), 373–395.
- Dwivany, F. M., Esyanti, R. R., Pratiwi, A. S., & Zaskia, H. (2016). Expression Study of Banana Pathogenic Resistance Genes. *HAYATI Journal of Bioscience*, pages 196-199.
- Effendy, M., & Wijayani, B. W. (2011). Estimation of Available Phosphorus in Soil Using the Population of Arbuscular Mycorrhizal Fungi Spores. *J. Rop. Soils*, 16(3), 225-232.
- FAO. (2018). Banana facts and figures. FAOSTAT EST: Banana Facts. [<http://www.fao.org/economic/est/est->

commodities/bananas/bananafacts/en/#.W--  
IHTgzbIU%0A](<http://www.fao.org/economic/est/est-commodities/bananas/bananafacts/en/#.W--IHTgzbIU%0A>)

FAOSTAT. (2013). Food and Agriculture Organization Statistics.  
<http://faostat.fao.org/> Accessed on March 20<sup>th</sup> 2022.

Fifendy, Mades, Irwan Muas, & Sari, Rosefla Puspita. (2010). "Pengaruh efikasi beberapa jenis fungi mikoriza arbuskula terhadap pertumbuhan bibit Pisang Ambon Hijau (*Musa Paradisiaca* L.)". Prosiding: Peran Mipa dalam Pemanfaatan Sumber Daya Alam untuk meningkatkan Kualitas Hidup Manusia. Universitas Riau.

Furrazola, E., Arias, T. A., Herrera-Peraza, R. A., Fors, R. O., Gonzales, S., Goto, B. T., & Berbara, R. L. L. (2020). "Arbuscular mycorrhizal fungi in the rhizosphere of *Musa* spp. in western Cuba". *Journal of Fungal Biology*, 10(1), 176-185.

Gao, H., Beckman, C. H., & Muller, W. C. (1994). "The rate of vascular colonization as a measure of the genotype interaction between various cultivars of tomato and various formae or races of *Fusarium oxysporum*". *Physiological and Molecular Plant Pathology*, 46(1), 29–43.

GBIF (Global Biodiversity Information Facility). (2023). *Rhizophagus aggregatus* (N.C.Schenck & G.S.Sm.) C.Walker.  
<https://www.gbif.org/species/7779583> Accessed on December 20th, 2023.

Giovannetti, M., & Mosse, B. (1980). "An Evaluation of Techniques for Measuring Vesicular-Arbuscular Infection in Roots". *New Phytologist*, 84, 489–500.

Gordon T. R. (2017). *Fusarium oxysporum* and the Fusarium Wilt Syndrome. *Annu Rev Phytopathol*, 4(55), 23–39.

Gupta, S., Sharma, D., & Gupta, M. (2018). "Climate change impact on plant diseases: opinion, trends and mitigation strategies". *Microbes and Climate Resilient Agriculture*, 41-56.

- Hajoeningtjas, O. D. (2009). "Ketergantungan Tanaman Terhadap Mikoriza Sebagai Kajian Potensi Pupuk Hayati Mikoriza Pada Budidaya Tanaman Berkelanjutan". *Agritech*, 11(2), 125-136.
- Harrier, L. A., & Watson, C. A. (2004). "The potential role of Arbuscular Mycorrhizal (AM) fungi in the bioprotection of plants against soil-borne pathogens in organic and/or other sustainable farming systems". *Pest Management Science*, 60, 149-157.
- Hasanah, U., Purnomowati, & Dwiputranto, U. (2017). "Pengaruh Inokulasi Mikoriza Vesikula Arbuskula (MVA) Campuran terhadap Kemunculan Penyakit Layu Fusarium pada Tanaman Tomat (*Solanum lycopersicum*)". *Jurnal Scripta Biologica*, 4(1), 31-35.
- Imron, M., Suryanti, & Sulandari, S. (2015). "Peranan Jamur Mikoriza Arbuskular terhadap Perkembangan Penyakit Daun Keriting Kuning Cabai". *Jurnal Perlindungan Tanaman Indonesia*, 19(2), 94-98.
- Iqbal, M., Linda, R., & Mukarlina. (2020). "Pengaruh Kotoran Ayam Dan Mikoriza *Rhizophagus aggregatus* Terhadap Pertumbuhan Kedelai (*Glycine Max*) Pada Tanah Gambut". *Protobiont*, 9(1), 56-64.
- Islam, W. (2018). "Plant disease epidemiology: disease triangle and forecasting mechanisms in highlights". *Hosts and Viruses*, 5, 7–11.
- ITIS. (2022). Integrated Taxonomic Information System. [www.itis.gov](http://www.itis.gov). Accessed on 01 March 2022.
- Jefwa, J., Vanlauwe, B., Coyne, D., Asten, P. V., Gaidashoca, S., Rurangwa, E., Mwashasha, M., & Elsen, A. (2010). "Benefits and potential use of Arbuscular Mycorrhizal Fungi (AMF) in banana and plantain (*Musa* spp.) systems in Africa". *Proc. IC on Banana & Plantain in Africa*, 479-487.
- Karamura, D., Karamura, E., & Blomme, G. (2001). "General Plant Morphology of Musa". *Banana Breeding: Progress and Challenges*, 1-20.

- Kaur, R., Singh, A., & Kang, J. S. (2014). "Influence of Different Types of Mycorrhiza Fungi on Crop Productivity". *Current Agriculture Research Journal*, 2(1), 51-54.
- Kemendagri. (2022). "273 Juta Penduduk Indonesia Terupdate Versi Kemendagri". <https://dukcapil.kemendagri.go.id/berita/baca/1032/273-juta-penduduk-indonesia-terupdate-versi-kemendagri> Accessed on 06 March 2022.
- Khaosaad, T., J. M. Garcia-Garrido, S. Steinkellner, & H. Vierheilig. (2007). "Take-all disease is systemically reduced in roots of mycorrhizal barley plants". *Soil Biology and Biochemistry*, 39, 727-734.
- Kusmana, C., & Hikmat, A. (2015). "Keanekaragaman hayati flora di Indonesia". *Journal of Resource Management and Environment*, 5(2), 187-198.
- Leskona, D., Riza, L., & Mukarlina. (2013). "Pertumbuhan Jagung (*Zea mays* L.) dengan Pemberian *Rhizophagus aggregatus* dan Biofertilizer Pada Tanah Bekas Penambangan Emas". *Jurnal Protobiont*, 2(3), 176-180.
- Leslie, J. F., & Summerell, B. A. (2006). *The Fusarium Laboratory Manual* (1st ed.). Oxford: Blackwell.
- Malhotra, H., Vandana, S. Sharma, R., & Pandey, R. (2018). "Phosphorus Nutrition: Plant Growth in Response to Deficiency and Excess". In *Plant Nutrients and Abiotic Stress Tolerance* (Eds. Hasanuzzaman, M., Fujita, M., Oku, H., Nahar Kamrun., Nowak, B.). Indian Agricultural Research Institute, India, 171-190.
- Maryani, N. (2018). *A complex relationship: Banana and Fusarium wilt in Indonesia*. Thesis dissertation, Wageningen University and Research (WUR), The Netherlands.
- Maryani, N., Lombard, L., Poerba, Y. S., Subandiyah, S., Crous, P. W., & Kema, G. H. J. (2019). "Phylogeny and genetic diversity of the banana Fusarium wilt pathogen *Fusarium oxysporum* f. sp. *cubense* in the Indonesian centre of origin". *Studies in Mycology*, 92, 155-194.

- Matsubara, Y., N. Ohba, & H. Fukui. (2001). "Effect of arbuscular mycorrhizal fungus infection on the incidence of Fusarium root rot in asparagus seedlings". *Journal of Japanese Society for Horticultural Science*, 70, 202-206.
- Muis, R., M. Ghulamahdi, M. Melati, Purwono, & I. Mansur. (2016). "Diversity of Arbuscular Mycorrhiza Fungi from Trapping Using Different Host Plants". *International Journal of Sciences: Basic and Applied Research*, 27(2).
- Nainggolan, K. (2008). Ketahanan dan Stabilitas Pasokan, Permintaan, dan Harga Komoditas Pangan. *Analisis Kebijakan Pertanian*, 6(2), 114–139.
- Okungbowa, F. I., & H. O. Shittu. (2016). "Fusarium Wilts: An Overview". *Environmental Research Journal*, 6(2), 83-102.
- Plassard, C., & Dell, B. (2010). "Phosphorus nutrition of mycorrhizal trees". *Tree Physiology*, 30(9), 1129–1139.
- Ploetz, R. C. (2006). "Fusarium-induced diseases of tropical, perennial crops". *Journal of Phytopathology*, 96, 648-652.
- Ploetz, R. C. (2015). "Management of Fusarium wilt of Banana: A Review with special reference to tropical race 4". *Crop Protection*, 7-15.
- Prihastuti. (2007). "Isolasi dan karakterisasi mikoriza vesikular-arbuskular di lahan kering masam, Lampung Tengah". *Berita Penelitian Hayati*, 12, 99-106.
- Purwanto, E. H., A. Mazid, & Nurhayati. (2013). "Infeksi *Fusarium* sp. Penyebab Penyakit Lapuk Batang dan Cabang pada Enam Klon Karet". *Majalah Ilmiah Sriwijaya*, 25(18), 32-39.
- Semangun, H. (2004). *Penyakit-Penyakit Tanaman Hortikultura di Indonesia*. Gadjah Mada University Press. Yogyakarta.
- Siaga, E., Hasbi, S. M., Bernas, R., Lisda, K., Kartika, I., Laily, I., Widuri, Meihana, & B. Lakitan. (2017). "Pertumbuhan dan Hasil Tanaman Cabai

(*Capsicum annum* L.) pada Sistem Budidaya Terapung". *Prosiding Seminar Nasional Lahan Suboptimal*, 286-294.

- Sivan, A., & Chet, I. (1986). "Biological control of *Fusarium* spp. in cotton, wheat and muskmelon by *Trichoderma harzianum*". *Journal of Phytopathology*, 116, 39-47.
- Smith, S. E., & Read, D. (2008). *Mycorrhizal Symbiosis*, 3rd Ed. San Diego: Academic Press.
- Suherman, Rahim, I., Akib, A. (2012). "Aplikasi Mikoriza Vesikular Arbuskular Terhadap Pertumbuhan Dan Produksi Tanaman Kedelai (*Glycine max* L. Merrill)". *Jurnal Galung Tropika*, 1(1), 1-6.
- Sulyanti, E., Habazar, T., Husin, E. F., Nasir, N. Dharma, A. (2011). "Penapisan Isolat Fungi Mikoriza Arbuskular Indigenus Rizosfir Pisang Sebagai Induser Ketahanan Tanaman Pisang Cavendish Terhadap Layu Fusarium (*Fusarium oxysporum* f.sp. *cubense*)". *Jurnal Agrotropika*, 16(1), 14-20.
- Sulyanti. (2006). "Potensi Cendawan Mikoriza Arbuskula (CMA) Dalam Meningkatkan Ketahanan Tanaman Pisang Terhadap Infeksi *Fusarium oxysporum* f.sp *cubense* Ras 4". *Seminar Nasional Hasil Penelitian Dosen Muda*. Jakarta.
- Susanna, A., Ulim, Junaidi. (2009). "Pemanfaatan Kascing untuk Menghambat Perkembangan *Fusarium oxysporum* pada Tanaman Tomat". *Agristra*, 13(3), 173-143.
- Suswati, Habazar, T., Nasir, N., & Putra, D. P. (2011). "Peningkatan aktifitas enzim polifenoloksidase (PPO) tanaman pisang dengan introduksi FMA-PU10 terhadap penyakit darah bakteri (*Ralstonia solanacearum* Phylotype IV)". *Jurnal Natur Indonesia*, 13(3), 1-7
- Suswati, Indrawaty, S., & Friardi. (2015). "Aktivitas Enzim Peroksidase Pisang Kepok Dengan Aplikasi *Glomus* Tipe 1". *Jurnal Hortikultura*, 15(2), 141-151.



- Suswati, Nasir, & Azwana. (2013). "Peningkatan Ketahanan Tanaman Pisang Barangan Terhadap Blood Disease Bacterium (Bdb) Dengan Aplikasi Fungi Mikoriza Arbuskular Indigenus". *J. HPT Tropika*, 13(1), 96-104.
- Taiz, L., Zeiger, E., Moller, I. M., & Murphy, A. (2015). *Plant Physiology and Development* (6th Ed). Sinauer Associates, Sunderland, 697p.
- Taufiq, A. (2014). *Identifikasi Masalah Keharaan Tanaman Kedelai*. Malang: Balitkabi. ISBN 978-602-95497-6-8.
- Tennant, D. (1975). "A Test of A Modified Line Intersect Method of Estimating Root Length". *Journal Ecology*, 63(3), 995-1001.
- The Economist Group. (2018). "Global Food Security Index 2018: Build resilience in the face of rising food-security risks", *The Economist Group*. [<http://foodsecurityindex.eiu.com/Country/Details#Germany>](<http://foodsecurityindex.eiu.com/Country/Details#Germany>).
- Thi, L. L., Mertens, A., Vu, D. T., Vu, T. D., Minh, P. L. A., Duc, H. N., Backer, S., Swennen, R., Vendelook, F., Panis, B., Amalfi, M., Decock, C., Gomes, S. I. F., & Merckx, V. (2022). "Diversity of *Fusarium* associated banana wilt in northern Viet Nam". *MycoKeys*, 87, 53–76.
- Toussoun, T. A., & Nelson, P. E. (1976). *Fusarium: A pictorial guide to the identification of Fusarium species according to the taxonomic system of Snyder and Hansen* (2nd ed.). Pennsylvania State University Press. University Park and London.
- Ulya, H., Darmanti, S., & Ferniah, R. S. (2020). "Pertumbuhan Daun Tanaman Cabai (*Capcisum annum* L. ) yang diinfeksi *Fusarium oxysporum* pada umur tanaman yang berbeda". *Jurnal Akademika Biologi*, 9(1), 1-6.
- Utobo, E. B., Ogbodo, E. N., & Nwogboga, A. C. (2011). "Techniques for Extraction and Quantification of Arbuscular Mycorrhizal Fungi". *Libyan Agric. Res. Cen. J. Intl.*, 2(2), 68–78.
- Varma, P. K. (2012). *Principle of Plant Pathology*. Agriculture College. Aswaraopet.



- Wardhana, V. W., Wiyono, S., Hidayat, S. H., & Widodo. (2021). "Patogenisitas *Fusarium oxysporum* Endofit asal Gulma dari Pertanaman Pisang terhadap Bibit Pisang Raja Bulu". *Jurnal Fitopatologi*, 17(1), 1-8.
- Windasari, L. P., Proborini, M. W., & Defiani, M. R. (2019). "Biokontrol Endomikoriza terhadap jamur *Curvularia* sp. Penyebab Penyakit Tanaman Jagung (*Zea mays* L.)". *Simbiosis VII (1)*, 28-36.
- Zhang, L., Yuan, T., Wang, Y., Zhang, D., Bai, T., Xu, S., Wang, Y., Tang, W., & Zheng, S. (2018). "Identification and evaluation of resistance to *Fusarium oxysporum* f. sp. *cubense* tropical race 4 in *Musa acuminata* Pahang". *Euphytica*, 214, 106.