

DAFTAR PUSTAKA

- Agrios, G.N. 2005. *Plant Pathology 5th Ed.* Oxford (GB):Elsevier Academic Press. Amsterdam.
- AL-Saeedi, S.S. and AL-Ani, B.M. 2014. Study of antagonistic capability of *Trichoderma harzianum* isolates against some pathogenic soil borne fungi. *Agriculture and Biology Journal of North America* 5(1): 15-23.
- Ali, A., Bordoh, P.K., Singh, A., Siddiqui, Y. and Droby, S. 2016. Post-harvest development of anthracnose in pepper (*Capsicum* spp.): Etiology and management strategies. *Elsevier: Crop Protection* 90: 132-141.
- Alvarez, J.F. and Wendel. 2003. Ribosomal ITS sequences and plant phylogenetic inference. *Molecular Phylogenetics and Evolution* 29: 417-434.
- Amatuzzi, R.F., Cardoso, N., Poltronieri, A.S., Poitevin, C.G., Dalzoto, P., Zawadeneak, M. A., and Pimentel, I.C. 2017. Potential of endophytic fungi as biocontrol agents of *Duponchelia fovealis* (Zeller) (Lepidoptera:Crambidae). *Brazilian Journal of Biology* 78(3): 429-435.
- Anand, T. and Bhaskaran, R. 2009. Exploitation of plant products and bioagents for ecofriendly management of chilli fruit rot disease. *Journal of Plant Protection Research* 49(2).
- Anith, K.N, Radhakrishnan, N.V., and Manomohandas, T.P. 2003. Screening of antagonistic bacteria for biological control of nursery wilt of black pepper (*Piper nigrum*). *Microbiological Research* 158: 91-97.
- Anonim. 2000. *Inventaris Tanaman Obat Indonesia (I)*, Jilid 1. Departemen Kesehatan RI. Jakarta, Pp. 3-4.
- Anonim. 2015. *Produksi Cabai Besar, Cabai Rawit, dan Bawang Merah Tahun 2014*. Berita Resmi Statistik: 71/08/XVIII. Jakarta (ID): Badan Pusat Statistik.
- Anonim. n.d. Badan POM RI-Direktorat Obat Asli Indonesia. *Abrus precatorius* L. Diperoleh 13 Juli 2017, dari <http://perpustakaan.pom.go.id>.
- Aramsirirujwet, Y., Gumlangmak, C., and Kitpreechavanich, V. 2016. Studies on antagonistic effect against plant pathogenic fungi from endophytic fungi isolated from *Houttuynia cordata* Thunb. and screening for siderophore and indole-3-acetic acid production. *KKU Res.j* 21(1): 55-66.
- Baldwin, B.G., Sanderson, M.J., Porter, J.M., Wojciechowski, M.F., Campbell, C.S. and Donoghue, M.J. 1995. The ITS region of nuclear ribosomal DNA:

A valuable source of evidence on angiosperms phylogeny. *Annals of the Missouri Botanical Garden* 82: 247–277.

- Begashaw, L. 2003. Utilisation of rhizosphere microflora in the biocontrol of root rot and growth enhancement of lettuce under hydroponic systems [thesis]. Pretoria: University of Pretoria. Diakses pada 18 Juli 2017 dari <http://hdl.handle.net/2263/24478>.
- Benitez, T, Rincon, A.M., Limon, M.C., and Codon, A.C. 2004. Biocontrol mechanisms of Trichoderma strains. *International Microbiology* 7(4): 249-260.
- Bhatia, M., Siddiqui and Gupta, S. 2013. *Abrus precatorius* (L): An Evaluation of Traditional Herb. *Indo American Journal of Pharmaceutical Research* 3(4).
- Brand, A. 2012. Hyphal Growth in Human Fungal Pathogens and Its Role in Virulence. *International Journal of Microbiology*. 2012: 517529.
- Canon, P.F., Bridge, P.D., Monte, E. 2000. Linking the past, present and future of *Colletotrichum* systematics. In Prusky, D., Freeman, S., Dickman, M.(Eds), *Colletotrichum: Host specificity, Pathology, and Host-pathogen Interaction*. APS Press, St. Paul, Minnesota, pp. 1-20.
- Chaisensaen, P., Mongkolthanaruk, W. and Bunyatratchata, W. 2013. Screening and potential for biological control of anthracnose disease (*Colletotrichum capsici*) on chili fruits by yeast isolates. *Journal of Life Sciences and Technologies* 4(1): 202-204.
- Chaves, N.P., Pocosangre, L. E., Elango, F., Rosales, F.E. and Sikora, R. 2009. Combining endophytic fungi and bacteria for the biocontrol of *Radopholus similis*. *Scientia Horticulturae* 122: 472-478.
- Choudhary, C.S. & Jain, C & Kumar, R & Choudhary, Jaipal. 2013. Efficacy of different fungicides, biocides and botanical extract seed treatment for controlling seed-borne *Colletotrichum* spp. in chilli (*Capsicum annum* L). *The Bioscan* 8: 123-126.
- Dabert, M. 2006. DNA Markers in The Phylogenetics of The Acari. *Biological Letters* 43(2): 97-107.
- Damm, U., Cannon, P.F. Woudenberg, J.H., and Crous, P.W. 2012. The *Colletotrichum acutatum* species complex. *Studies in Mycology* 73(1): 37-113
- Demirci, E., Dane, E. and Eken, C. 2011. In vitro antagonistic activity of fungi isolated from sclerotia on potato tubers against *Rhizoctonia solani*. *Turkish Journal of Biology* 35: 457-462.

- Diaz, G., Corcoles, A.I., Asencio, A.D. and Torres, M.P. 2013. In vitro antagonism of *Trichoderma* and naturally occurring fungi from elms against *Ophiostoma novo-ulmi*. *Forrest Pathology* 43: 51-58.
- Dingle, J. and Mc Gee, P. A. 2003. Some endophyte fungi reduce the density of pustules of *Puccinia recondi* f.sp. *tritici* in wheat. *Mycological Research* 107: 310-316.
- Dolakatabadi, H.K., Goltapeh, E.M., Mohammadi, N., Rabiey, M., Rohani, N., and Varma. 2012. Biocontrol potential of root endophytic fungi and *Trichoderma* species against *Fusarium* wilt of lentil under in vitro and greenhouse conditions. *Journal of Agricultural Science and Technology* 14: 407-420.
- Dos Santos, P.J.C., Savi, D.C., Gomes, R.R., Goulin, E.H., Senkiv, C.D., Tanaka, F.A.O., Almeida, A.M.R., Galli-Terasawa, L., Kava, V., and Glienke, C. 2016. *Diaporthe endophytica* and *D. terebinthifolii* from medicinal plants for biological control of *Phyllosticta citricarpa*. *Microbiological Research* 186-187: 153-160.
- Duffy, B., Schouten, A. and Raaijmakers, J.M. 2003. Pathogen self-defense: mechanisms to counteract microbial antagonism. *Annual Review of Phytopathology* 41: 501-538.
- Duriat, A.S., Gunaeni, N. and Wulandari, A.W. 2007. *Penyakit Penting pada Tanaman Cabai dan Pengendaliannya*. Balai Penelitian Tanaman Sayuran, Bandung, pp. 16-39.
- Edger, P.P., Tang, M., Bird, K.A., Mayfield, D.R., Conant, G., Mummenhoff, K., Koch, M.A., and Pires, J.C. 2014. Secondary Structure Analyses of the Nuclear rRNA Internal Transcribed Spacers and Assessment of Its Phylogenetic Utility across the Brassicaceae (Mustards). *Plos ONE*. 9(7): e101341.
- Elad Y and Freeman S. 2002. *Biological control of fungal plant pathogens*. In: Kempken F (ed) *The Mycota, A Comprehensive Treatise on Fungi as Experimental Systems for Basic and Applied Research*. XI. Agricultural Applications. Springer, Heidelberg, Germany, pp. 93-109.
- Oliveira Junior, E.N., Gueddari, N.E., Moerschbacher, B.M., and Franco, T.T. 2012. Growth rate inhibition of phytopathogenic fungi by characterized chitosans. *Brazilian Journal of Microbiology* 43(2): 800-809.
- Evueh, G.A. and Ogbebor, N.O. 2008. Use of phylloplane fungi as biocontrol agent against *Colletotrichum* leaf disease of rubber (*Hevea brasiliensis* Muell. Arg.). *African Journal of Biotechnology* 7(15): 2569-2572.

- Faeth, S. H. and Fagan, W. F. 2002. Fungal endophytes: Common host plant symbionts but uncommon mutualists. *Integrative and Comparative Biology* 42: 360-368.
- Fatimah (2016). *Karakteristik mekanisme induksi ketahanan cabai yang diintroduksi dengan rizobakteri indigenos terhadap penyakit antraknosa (Colletotrichum gloeosporioides)* [disertasi]. Padang: Universitas Andalas.
- Ferniah, R.S., Daryono, B.S., Kasiamdari, R.S. and Priyatmojo, A. 2014. Characterization and Pathogenicity of as the Causal Agent *Fusarium oxysporum* of Fusarium Wilt in Chili (*Capsicum annuum* L.). *Microbiology* 8(3): 121-126.
- Fitriyah, D., Jose, C., and Saryono. 2013. Skrining aktivitas antimikroba dan uji fitokimia dari kapang endofitik tanaman dahlia (*Dahlia variabilis*). *Journal of Indonesia Chimica Acta* 3(2): 50-55.
- Freeman S, and Rodriguez RJ. 1993. Genetic conversion of a fungal plant pathogen to a nonpathogenic, endophytic mutualist. *Science* 260: 75–78.
- Freeman, S., Katan, T., and Shabi, E. 1998. Characterization of *Colletotrichum* species responsible for anthracnose diseases of various fruits. *Plant Disease* 82: 596-605.
- Garg, R., Kumar, S., Kumar, R., Loganathan, M., Saha, S., Kumar, S., Rai, A.B. and Roy, B.K. 2013. Novel source of resistance and differential reactions on chilli fruit infected by *Colletotrichum capsici*. *Australasian Plant Pathology* 42: 227-233.
- Garaniya, N. and Bapodra, A. 2014. Ethnobotanical and phytopharmacological potential of *Abrus precatorius* L.: A review. *Asian Pacific Journal of Tropical Biomedicine* 4(1): 27-34.
- Gogoi, M., Sarmah, D.K., and Ali, S. 2017. Cultural and morphological variations of *Fusarium solani* (Mart.) Sacc. causing root rot of patchouli in Assam, India. *International Journal of Current Microbiology and Applied Sciences* 6(11): 1889-1901.
- Gomathi, S and Ambikapathy, V. 2011 – Antagonistic activity of fungi against *Pythium debaryanum* (Hesse) isolated from chilli field soil. *Advances in Applied Science Research* 2(4): 291-297.
- Hammerschmidt R, Nuckles EM, and Kuc J. 1982. Association of enhanced peroxidase activity with induced systemic resistance of cucumber to *Colletotrichum lagenarium*. *Physiological Plant Pathology* 20: 73-82.
- Hyde, K.D., Cai, L., Cannon, P.F., Crouch, J.A., Crous, P.W., Damm, U., Goodwin, P.H., Chen, H., Johnston, P.R., Jones, E.B.G., Liu, Z.Y., McKenzie, E.H.C., Moriwaki, J., Noireung, P., Pennycook, S.R., Pfenning,

- L.H., Prihastuti, H., Sato, T., Shivas, R.G., Tan, Y.P., Taylor, P.W.J., Weir, B.S., Yang, Y.L. and Zhang, J.Z. 2009. *Colletotrichum*–names in current use. *Fungal Diversity* 39: 147-182.
- Irawati, A.F.C., Mutaqin, K.H., Suhartono, M.T., Sastro, Y., Sulastri, and Widodo. 2017. Eksplorasi dan pengaruh cendawan endofit yang berasal dari akar tanaman cabai terhadap pertumbuhan benih cabai merah. *Jurnal Hortikultura* 27(1): 105-112.
- Istikorini, Y. 2008. Potensi fungi endofit untuk mengendalikan penyakit antraknosa pada cabai (*Capsicum annum* L.) [disertasi]. Bogor (ID): Institut Pertanian Bogor.
- Jaber L. R. and Ownley B. H. 2017. Can we use entomopathogenic fungi as endophyte for dual biological control of insect pests and plant pathogens? *Biological Control* 107: 50-59.
- Jalgaonwala, R. and Mahajan, R. 2014. A Review on microbial endophytes from Plants: A treasure search for biologically active metabolites. *Global Journal of Research on Medicinal Plants and Indigenous Medicine* 3(6): 263-277.
- Kaur, M., Sharma, O.P., and Sharma, P.N. 2006. In vitro effect of *Trichoderma* species on *Colletotrichum capsici* causing fruit rot of chilli (*Capsicum annuum* L.). *Indian Phytopathology* 59(2): 243-245.
- Kasiamdari, R.S. 2000. Binukleat *Rhizoctonia* isolate from mycorrhizal pot cultures: its morphological characteristics and pathogenicity. *Berkala Ilmiah Biologi* 2(10): 615-628.
- Kasiamdari, R.S. 2001. Interactions Between Arbuscular Mycorrhizal Fungi and Other Root Infecting Fungi. [dissertation]. Australia: The University of Adelaide.
- Keijer, J., Korsman, M.G., Dulleman, A.M., Houteman, P.M., De Bree, J., and Van Silfhout, C.H. 1997. In vitro analysis of host plant specificity in *Rhizoctonia solani*. *Plant Pathology* 46: 659-669.
- Korpi, A., Jarnberg, J., and Pasanen, P. 2009. Microbial volatile organic compounds. *Critical Reviews in Toxicology* 39: 139-193.
- Kumar, A., Abnave, P., and Ahmad, A. 2012. Cultural, morphological and molecular characterization of vinca alkaloids producing endophytic fungus *Fusarium solani* isolated from *Catharanthus roseus*. *International Journal of Botany and Research* 3(2): 1-12.
- Kusari P., Kusar, S., Spiteller, M. and Kayser, O. 2013. Endophytic fungi harbored in *Cannabis sativa* L.: diversity and potential as biocontrol agents against host plant-specific phytopathogens. *Fungal diversity* 60: 137-151.

- Kusuma, A. 2016. Induksi Ketahanan Terhadap Penyakit Busuk Pelepah (*Rhizoctonia solani*) pada Tanaman Jagung Menggunakan Jamur *Trichoderma* sp. dan *Penicillium* sp. [thesis]. Yogyakarta: Universitas Gadjah Mada.
- Kurnia, A.T., Pinem, M.I., Oemry, S. 2014. Use of endophytic fungus to control *Fusarium oxysporum* f.sp.capsici and *Alternaria solani* in vitro. *Jurnal Online Agroekoteknologi* 2(4): 1596-1606. [Indonesian]
- Landum, M.C., Felix, M.R., Alho, J., Garcia, R., Cabrita, M.J., Rei, F., and Varanda, C.M.R. 2016. Antagonistic activity of fungi of *Olea europaea* L. against *Colletotrichum acutatum*. *Microbiological Research* 183: 100-108.
- Lelyveld, L.D., S.P. Vuuren. 1988. Peroxidase activity as a marker in greening disease of Citrus for assessment of tolerance and susceptibility. *Phytopathology* 121: 357-362.
- Lv, Y. L., Zhang, F. S., Chen, J., Cui, J. L., Xing, Y. M., Li, X. D. and Guo, S. X. 2010. Diversity and antifungal activity of endophytic fungi associated with the alpine plant *Saussurea involucreata*. *Biological and Pharmaceutical Bulletin* 33: 1300-1306.
- Mahobiya, D. and Gupta, A.K. 2017. Diversity of endophytic fungi associated with some medicinal herbs and shrubs. *KAVAKA* 49: 38-44.
- Mateos, R.M., Jiménez, A., Roman, P., Romojaro, F., Bacarizo, S., Leterrier, M., Gómez, M., Sevilla, F., del Río, L., Corpas, F.J., and Palma, J.M. 2013. Antioxidant Systems from Pepper (*Capsicum annuum* L.): Involvement in the Response to Temperature Changes in Ripe Fruits. *International Journal of Molecular Sciences* 14: 9556-9580.
- Mazid, M., Khan, T.A. and Mohammad, F. 2011. Role of secondary metabolites in defense mechanisms of plants. *Biology and Medicine* 3(2): 232-249.
- Mehetre, P.B. and Deshmukh, H. 2011. Effect of antagonist on the growth of *Colletotrichum capsici* causing anthracnose of Yam (*Dioscorea alata* L.) by Dual culture technology. *International Journal of Plant Protection* 4(2): 417-418.
- Moriwaki, J., Tsukiboshi, T., and Sato, T. 2002. Grouping of *Colletotrichum* species in Japan based on rDNA sequences. *Journal of General Plant Pathology* 68: 307-320.
- Muhammad, S., and Amusa, N.A. 2005. The important food crops and medicinal plants of North-Western Nigeria. *Research journal of agriculture and biological sciences* 1(3): 254-260.

- Narisawa, Ohki and Hashiba. 2000. Supression of clubroot and verticillium yellows in chinese cabbage in the field by the root endophytic fungus, *Heteroconium chaetospora*. *Plant Pathology* 49: 141-146.
- Nilsson, R. H., Kristiansson, E., Ryberg, M., Hallenberg, N., and Larsson, K.-H. 2008. Intraspecific ITS variability in the kingdom fungi as expressed in the international sequence databases and its implications for molecular species identification. *Evolutionary Bioinformatics Online* 4: 193-201.
- Nurahmi, E., Mahmud, T. and Rossiana, S.S. 2011. Efektifitas pupuk organik terhadap pertumbuhan dan hasil cabai. *Jurnal Floratek* 6: 158-164.
- Nurzannah, S.E., Lisnawati and Bakti, D. 2014. Potensi jamur endofit asal cabai sebagai agens hayati untuk mengendalikan layu fusarium (*Fusarium oxysporum*) pada cabai dan interaksinya. *Jurnal Online Agroekoteknologi* 2(3): 1230-1238.
- O'Hanlon, K. A., Knorr, K., Jorgensen, L. N., Nicolaisen, M. and Boelt, B. 2012. Exploring the potential of symbiotic fungal endophytes in cereal diseases suppression. *Elsevier: Biological Control* 63: 69-78.
- Ojha, S. and Chatterjee, N.C. 2011. Mycoparasitism of *Trichoderma* spp. in biocontrol of fusarial wilt of tomato. *Archives of Phytopathology and Plant Protection* 44 (8): 771-782.
- Okhale, S.E. and Nwanosike, E.M. 2016. *Abrus precatorius* Linn (Fabaceae): phytochemistry, ethnomedicinal uses, ethnopharmacology and pharmacological activities. *International Journal of Pharmaceutical Science and Research* 1(6): 37-43.
- Oo. M.M., and Keun-Oh, S. 2016. Chilli anthracnose (*Colletotrichum* spp.) disease and its management approach. *Korean Journal of Agricultural Science* 43: 153-162.
- Padder, B.A and Sharma, P.N. 2011. In vitro and in vivo antagonism of biocontrol agents against *Colletotrichum lindemuthianum* causing bean anthracnose. *Archives of Phytopathology and Plant Protection* 44(10): 961-969.
- Park, J., Park, J.H., Choi, G.J., Lee, S., Jang, K.S., Choi, Y.H., Cho, Y.K., and Kim, J. 2003. Screening for antifungal endophytic fungi against six plant pathogenic fungi. *Mycobiology* 31(3): 179-182.
- Patwardhan, A., Ray, S. and Roy, A. 2014. Molecular Markers in Phylogenetic Studies – A Review. *Journal of Phylogenetics and Evolutionary Biology* 2: 131.

- Peres N. A., Timmer L. W., Adaskaveg J. E., and Correll J. C. 2005. Life cycles of *Colletotrichum acutatum*. *Plant Disease* 89: 784-796.
- Petrini, O. 1991. *Fungal Endophytes of Tree Leaves*. In: Andrews J.H., Hirano S.S. (eds) *Microbial Ecology of Leaves*. Brock/Springer Series in Contemporary Bioscience. Springer, New York, NY.s
- Phillips, J.M. and Hayman, D.S. 1970. Improved procedure for clearing roots and staining, parasitic and VAM fungi for rapid assessment of infection. *Transactions of the British Mycological Society* 55: 158-160.
- Porter, C.M. 1924. Concerning the characters of certain fungi as exhibited by their growth in the presence of other fungi. *American Journal of Botany* 11(3): 168-188.
- Premjanu, N. and Jaynthy, C. 2014-15. Identification and characterization of antimicrobial metabolite from an endophytic fungus, *Colletotrichum gloeosporioides* isolated from *Lannea coramandalica*. *International Journal of ChemTech Research* 7(1): 369-374.
- Pudjihartati, E., Ilyas, S. and Sudarsono. 2006. Oxidative burst, peroxidase activity, and lignin content of *Sclerotium rolfsii* infected peanut tissue. *Hayati Journal of Bioscience* 13(4): 166-172.
- Rabha, A.J., Naglot, A., Sharma, G.D., Gogoi, H.K. and Veer, V. 2014. In vitro evaluation of antagonism of endophytic *Colletotrichum gloeosporioides* against potent fungal pathogens of *Camellia sinensis*. *Indian Journal of Microbiology* 54(3): 302-309.
- Radji, M. 2005. Peranan bioteknologi dan mikrobial endofit dalam pengembangan obat herbal. *Majalah Ilmu Kefarmasian* 2(3): 113-126.
- Rahayu, Saryono and Nugroho, T.T. 2015. Isolasi DNA dan amplifikasi PCR daerah ITS rDNA fungi endofit umbi tanaman dahlia (*Dahlia variabilis*) LBKURCC69. *JOM FMIPA*: 2(1): 100-106.
- Rajagopal, K. and Suryanarayanan, T.S. 2000. Isolation of endophytic fungi from leaves of neem (*Azadirachta indica* A. Juss.). *Current Science* 78: 1375-1378.
- Rajput, R. B. 2011. Organic management of anthracnose of chilli caused by *Colletotrichum capsici* (Syd.) Butler and Bisby [thesis]. Dharwad: University of Agricultural Sciences.
- Ramdan, E. P. 2014. Eksplorasi fungi endofit sebagai agens pengendali hayati *Phytophthora capsici* Leonian pada cabai [thesis]. Bogor (ID): Institut Pertanian Bogor.

- Raviraja, N.S. 2005. Fungal endophyte in five medicinal plant species from Kudremukh Range, Western Ghats of India. *Journal of Basic Microbiology* 45(3): 230-235.
- Rodrigues, K.F. 1994. The foliar fungal endophytes of the Amazonian palm. *Euterpe oleracea*. *Mycologia* 86: 376-385.
- Rodriguez, R.J., White Jr. J.F., Arnold, A.E. and Redman, R.S. 2009. Fungal endophytes: diversity and functional roles. *New Phytologist* 182: 314-330.
- Rodriguez and Redman. 2008. More than 400 million years of evolution and some plants still can't make it on their own: plant stress tolerance via fungal symbiosis. *Journal of Experimental Botany* 59(5): 1109-1114.
- Rohmah, M. N. 2016. Kadar kapsaisin dan aktivitas enzim peroksidase empat kultivar cabai pada tiga lingkungan pertumbuhan [thesis]. Yogyakarta: Universitas Gadjah Mada.
- Sakayaroj, J., Preedanon, S., Supaphon, O., Jones, E.B.G., and Phongpaichit, S. 2010. Phylogenetic diversity of endophyte assemblages associated with the tropical seagrass *Enhalus acoroides* in Thailand. *Fungal Diversity* 42: 27-45.
- Saxena, A., Raghuwanshi, R., Gupta, V.K., and Singh, H.B. 2016. Chilli Anthracnose: The Epidemiology and Management. *Frontiers in Microbiology* 7: 1527.
- Schoch, C.L., Seifert, K.A., Huhndorf, S., Robert, V., Spouge, J.L., Levesque, C.A., and Chen, W. 2012. Nuclear ribosomal internal transcribed spacer (ITS) region as a universal DNA barcode marker for Fungi. *PNAS* 109(16): 6241-6246.
- Schubert, M., Fink, S., and Schwarze, F.W.M.R. 2008. In vitro screening of an antagonistic *Trichoderma* strain against wood decay fungi. *Arboricultural Journal* 31: 227-248.
- Semangun, H. 2004. *Penyakit-Penyakit Tanaman Pangan di Indonesia*. Gajah Mada University. Yogyakarta.
- Shannon, U.M., Hung, R., and Bennett, J.W. 2012. Fungal volatile organic compounds: A review with emphasis on their biotechnological potential. *Fungal Biology Reviews* 26: 73-83.
- Sharma, M. and Kulshrestha, S. 2015. *Colletotrichum gloeosporioides*: An anthracnose causing pathogen of fruits and vegetables. *Biosciences Biotechnology Research Asia* 12(2): 1233-1246.

- Shoresh, M., Harman, G. E. and Mastouri, F. 2010. Induced systemic resistance and plant response to fungal biocontrol agents. *Annual Review of Phytopathology* 48 (48): 21-43.
- Simoës, M.L.G. and Tornisielo, S.M.T. 2006. Optimization of xylanase biosynthesis by *Aspergillus japonicus* isolated from a "Caatinga" area in the Brazilian state of Bahia African. *Journal of Biotechnology* 5: 1135–1141.
- Singh, D.K., Sharma, V.K., Kumar, J., Mishra, J., Verma, S.K., Sieber, T.N. and Kharwar, R.N. 2017. Diversity of endophytic mycobiota of tropical tree *Tectona grandis* Linn.f.: Spatiotemporal and tissue type effects. *Scientific reports* 7: 3745
- Skidmore, A.M. and Dickinson, C.H. 1976. Colony interactions and hyphal interference between septoria nodorum and phylloplane fungi. *Transactions of the British Mycological Society* 66(1): 57-64.
- Sneh, B., Ichielevich-Auster, M., and Plaut, Z., 1989a. Mechanism of seedling protection induced by hypovirulent isolate of *Rhizoctonia solani*. *Canadian Journal of Botany* 67: 2135-2141.
- Sreenivasaprasad, S, and Talhinhos, P. 2005. Genotypic and phenotypic diversity in *Colletotrichum acutatum*, a cosmopolitan pathogen causing anthracnose in wide range of hosts. *Molecular plant pathology* 64: 361-378.
- Strobel, G., Daisy, B., Castillo, U. and Harper, J. 2004. Natural products from endophytic microorganism. *Journal of Natural Products* 67: 257-268.
- Sudantha, M. and Abadi, A.L. 2007. Identifikasi Jamur Endofit dan Mekanisme antagonismenya terhadap Jamur *Fusarium oxysporium* f.sp.vanillae pada Tanaman Vanili. *Agroteksos* 17: 1.
- Sun, X. and Guo, L. 2012. Endophytic fungal diversity: review of traditional and molecular techniques. *Mycology* 3(1): 65-76
- Sunil, P., Sanjay, Y. and Vinod, S. 2013. Pharmacognostical investigation and standardization of *Capsicum annuum* L. Roots. *International Journal of Pharmacognosy and Phytochemical Research* 4(1): 21-24
- Suryanarayanan, T. 2013. Endophyte research: going beyond isolation and metabolite documentation. *Fungal Ecology* 6: 561-568.
- Surzycki, S.J. 2000. Basic Techniques in Molecular Biology. Springer-Verlag Publisher, New York.
- Suwannarat, S., Steinkellner, S., Songkumarn, P. and Sangchote, S. 2017. Diversity of *Colletotrichum* spp. isolated from chili pepper fruit exhibiting symptoms of anthracnose in Thailand. *Mycological Progress* 6(7): 677-686.

- Syukur, M., Sujiprihati, S., Koswara, J., and Widodo. 2009. Ketahanan terhadap Antraknosa yang disebabkan oleh *Colletotrichum acutatum* pada beberapa Genotipe Cabai (*Capsicum annuum* L.) dan Korelasinya dengan Kandungan Kapsaicin dan Peroksidase. *Jurnal Agronomi Indonesia* 37(3): 233-239.
- Takamatsu, S., Hirata, T., dan Sato, Y. 1998. Phylogenetic analysis and predicted secondary structures of the rDNA internal transcribed spacers of the powdery mildew fungi (Erysiphaceae). *Mycoscience* 39: 441-463.
- Takeuchi, T., Kimura, T., Tanaka, H., Kaneko, S., Ichii, S., Kiuchi, M., and Suzuki, T. 2012. Analysis of volatile metabolites emitted by soil-derived fungi using head space solid-phase microextraction/gas chromatography/mass spectrometry: I. *Aspergillus fumigatus*, *Aspergillus nidulans*, *Fusarium solani* and *Penicillium paneum*. *Surface and Interface Analysis* 44(6): 694-698.
- Tanaka, A, Christensen, M.J., Takemoto, D., Park, P, and Scotta, B.2006. Reactive oxygen species play a role in regulating a fungus–perennial ryegrass mutualistic interaction. *Plant Cell* 18: 1052-1066.
- Taylor, D.L, Walters, W.A, Lennon, N.J, Bochicchio, J., Krohn, A., Caporaso, J.G., and Pennanen, T. 2016. Accurate estimation of fungal diversity and abundance through improved lineage-specific primers optimized for Illumina amplicon sequencing. *Applied Environmental Microbiology* 82: 7217-7226.
- Tayung, K., Sarkar, M., and Baruah, P. 2012. Endophytic Fungi Occurring in *Ipomoea carnea* Tissues and their Antimicrobial Potentials. *Brazilian Archives of Biology and Technology, An International Journal* 55: 653-660.
- Tenaya, I.M.N., R. Setyamiharja, N. and Natasasmita. 2001. Hubungan Kandungan Kapsaisin, Fruktosa dan Aktivitas Enzim Peroksidase dengan Penyakit Antraknos pada Persilangan Cabai Rawit X Cabai. *Zuriat* 12(2):73-83.
- Tenguria, R.K., and Khan, F.N. 2011. Distribution of Endophytic Fungi in Leaves of *Azadirachta indica* A. JUSS. (Neem) of Panchmarhi Biosphere Reserve. *Current Botany* 2: 27-29.
- Than, P.P., Prihastuti, H., Phoulivong, S., Taylor, P.W.J. and Hyde, K.D. 2008. Review: Chili anthracnose disease caused by *Colletotrichum* species. *Journal of Zhejiang University SCIENCE* 9(10): 764-778.
- Than, P.P., Jeewon, R., Hyde, K.D., Pongsupasamit, S., Mongkolporn, O. and Taylor, P.W.J. 2008b. Characterization and pathogenicity of *Colletotrichum* species associated with anthracnose on chilli (*Capsicum* spp.) in Thailand. *Plant Pathology* 57: 562-572.

- Tian, P., Nan, Z. and Li, C. 2008. Effect of the endophyte *Neotyphodium lolii* on susceptibility and host physiological response of perennial ryegrass to fungal pathogens. *European Journal of Plant Pathology* 122: 593-602.
- Ting, A.S.Y., Meon, S., Kadir, J., Radu, S., and Singh, G. 2009. Induced host resistance by non-pathogenic *Fusarium* endophyte as potensial defense mechanism in *Fusarium* wilt management of banana. *Pest Technology* 3(1): 67-72.
- Ting, A.S.Y., Mah, S. W., and Tee, C.S. 2010. Identification of volatile metabolites from fungal endophytes with biocontrol potential towards *Fusarium oxysporum* f. sp. *cubense* Race 4. *American Journal of Agricultural and Biological Sciences* 5(2): 177-182.
- Tondok, T., Sinaga, M.S., Widodo, and Suhartono, M.T. 2012. Potensi cendawan endofit sebagai agens pengendali hayati *Phytophthora palmivora* (Butl.) Butl. penyebab busuk buah kakao. *Jurnal Agronomi Indonesia* 40(2): 146-152.
- Torres, M.S., Singh, A.P., Vorsa, N., Gianfagna, T. and White, J.F.J. 2007a. Were endophytes pre-adapted for defensive mutualism? In: Popay AJ, Thom ER, eds. 6th International Symposium on Fungal Endophytes of Grasses. Christchurch, New Zealand: New Zealand Grassland Association, 63-67.
- Verma, N., MacDonald, L. and Punja, Z.K. 2006. Inoculum prevalence, host infection and biological control of *Colletotrichum acutatum*: Causal agent of blueberry anthracnose in British Columbia. *Plant Pathology* 55: 442-450.
- Voorrips, R.E., Finkers, R., Sanjaya, L., Groenwold, R., 2004. QTL mapping of anthracnose (*Colletotrichum* spp.) resistance in a cross between *Capsicum annuum* and *C. chinense*. *Theoretical and Applied Genetics* 109(6): 1275-1282.
- Waing, K.G.D., Abella, E.A., Kalaw, S.P., Waing, F.P. dan Galvez, C.T. 2015. Antagonistic interactions among different species of leaf litter fungi of Central Luzon State University. *Plant Pathology & Quarantine* 5(2): 122-130.
- Watanabe, N. 2002. *Pictorial Atlas of Soil and Seed Fungi: Morphologies of Cultured Fungi and Key to Species*. Washington, D.C. CRC Press.
- Waruwu, A.A.S., Soekarno, B.P.W., and Munif, A. 2016. Metabolit cendawan endofit tanaman padi sebagai alternatif pengendalian cendawan patogen terbawa benih padi. *Jurnal Fitopatologi Indonesia* 12(2): 53-61.
- Weir, B.S., Johnson, P.R., and Damm, U. 2012. The *Colletotrichum gloeosporioides* species complex. *Studies in Mycologia* 73: 115-180.

- White, J. F. and Torres, M. S. 2010. Is plant endophyte-mediated defensive mutualism the result of oxidative stress protection? *Physiologia Plantarum* 138: 440-446.
- White, T.J., Bruns, T., Lee, S., and Taylor, J. 1990. Amplification and direct sequencing of fungal ribosomal RNA genes for phylogenetics. PCR Protocols: A guide to methods and applications. Academic Press, Inc., pp. 315-322.
- Xiang, L., Gong, S., Yang, L., Hao, J., Xue, M.F., Zeng, F.S., Zhang, X.J., Shi, W.Q., Wang, H., and Yu, D. 2016. Biocontrol potential of endophytic fungi in medicinal plants from Wuhan Botanical Garden in China. *Biological control* 94: 47-55
- Xiao, Y., Li, H.X., Li, C., Wang, J.X., Li, J., Wang, M. H. and Ye, Y.H. 2013. Antifungal screening of endophytic fungi from *Ginkgo biloba* for discovery of potent antiphytopathogenic fungicides. *FEMS Microbiology Letters* 339(2): 130-136.
- Yan, J. F., Broughton, S. J., Yang, S. L. and Gange, A. C. 2015. Do endophytic fungi grow through their hosts systemically? *Elsevier: Fungal Ecology* 13: 53-39.
- Yan, D., Song, X., Li, H., Luo, T., Dou, G., Strobel, G., 2018. Antifungal activities of volatile secondary metabolites of four *Diaporthe* strains isolated from *Catharanthus roseus*. *Journal of Fungi* 4(2): 65.
- Zabalgogezcoa, I. 2008. Review: Fungal endophytes and their interaction with plant pathogens. *Spanish Journal of Agricultural Research* 6: 138-146.
- Zhang, Q., Wei, X., Wang, J. 2012. Phillyrin produced by *Colletotrichum gloeosporioides*, an endophytic fungus isolated from *Forsythia suspensa*. *Fitoterapia* 83(8): 1500-1505.
- Zhang, Q., Zhang, J., Yang, L., Zhang, L., Jiang, D., Chen, W. and Li, Q. 2014. Diversity and biocontrol potential of endophytic fungi in *Brassica napus*. *Elsevier: Biological Control* 72: 98-108.
- Zhang, Y., Ning, Z., Lu, C., Zhao, S., Wang, J., Lin, B., Xu, X., and Liu, Y. 2013. Triterpenoid resinous metabolites from the genus *Boswellia*: Pharmacological activities and potential species-identifying properties. *Chemistry Central Journal* 7(153): 1-16.
- Živković, S., Stojanović, S., Ivanović, Z., Trkulja, N., Dolovac, N., Aleksić, G., and Balaž, J. 2010. Morphological and molecular identification of *Colletotrichum acutatum* from tomato fruit pest. *Phytomedicine* 25(3): 231-239.

Živković, S., Stojanović, S., Ivanović, Z., Gavrilović, V., Popović, T., and Balaž, J. 2010b. Screening of antagonistic activity of microorganisms against *Colletotrichum acutatum* and *Colletotrichum gloeosporioides*. *Archives of Biological Sciences* 62(3): 611-623.