# DAFTAR PUSTAKA


Adryan, A., Widyastuti, R., & Djajakirana. (2017). Isolasi Dan Identifikasi Mikroba Tanah Pendegradasi Selulosa Dan Pektin Dari Rhizosfer Aquilaria Malaccensis. *Buletin Tanah Dan Lahan,* , *1*(1), 58–64.

Af'idzatuttama, Nawangsih, A. A., & Mutaqin, K. H. (2022). The Potentials Of Cabbage Phyllospheric Bacteria As Biocontrol Agents Of Soft Rot Disease Caused By *Pectobacterium* Carotovorum On Chinese Cabbage. *Jurnal Fitopatologi Indonesia*, 18(3), 115–124. Https://Doi.Org/10.14692/Jfi.18.3.115-124

Agustina, D., Triasih, U., Dwiastuti, E., Rudi, D., Wicaksono, C., Penelitian, B., Jeruk, T., & Subtropika, B. (2019). Potensi Jamur Antagonis Dalam Menghambat Pertumbuhan Jamur *Botryodiplodia Theobromae* Penyebab Penyakit Busuk Batang Pada Tanaman Jeruk Potential Of Antagonistic Fungi In Inhibiting The Growth Of *Botryodiplodia Theobromae* Fungi Causes Stem Rot Disease In Citrus. *In Jurnal Agronida* Issn , 5(1).

Alfizar, M., & Susanti, D. F. (2013). Kemampuan Antagonis *Trichoderma* Sp. Terhadap Beberapa Jamur Patogen In Vitro. *J. Floratek*, 8, 45–51.

Amaria, W., Harni, R., & Samsudin. (2015). Evaluasi Jamur Antagonis Dalam Menghambat Pertumbuhan Rigidoporus Microporus Penyebab Penyakit Jamur Akar Putih Pada Tanaman Karet Evaluation Of Antagonistic Fungi In Inhibiting The Growth Of Rigidoporus Microporus Causing White Root Disease In Rubber Plants. *In J. Tidp*. 2, (1).

Amaria, W., Taufiq, E., & Harni, R. (2013). Seleksi Dan Identifikasi Jamur Antagonis Sebagai Agens Hayati Jamur Akar Putih (*Rigidoporus Lignosus*) Pada Tanaman Karet. *Buletin Ristri*. 4(1), 1-8.

Anggraeni, W. E. R. P. W. R. (2019). Isolasi Dan Identifikasi Jamur Pada Buah Cabai Rawit *(Capsicum Frutescens* L.). *Jurnal Probiont*, 8 (2), 94–100.

Arie, T. (2019). *Fusarium* Diseases Of Cultivated Plants, Control, Diagnosis, And Molecular And Genetic Studies. *Journal Of Pesticide Science*, 44(4), 275–281.

Arimbawa , I Made. G. N. A. S. W. M. S. & I. Made W. (2019). Isolasi Dan Seleksi Bakteri Antagonis Untuk Pengendalian Penyakit Busuk Batang Vanili (*Vanilla Planifolia Andrews*) Secara In Vitro. *Jurnal Agroekoteknologi Tropika*, *8*(2), 182. Https://Ojs.Unud.Ac.Id/Index.Php/Jat

Arsi, A., Octariati, N., Shk, S., Gunawan, B., Herlinda, S., Pujiastuti, Y., Suwandi, S., Irsan, C., Hamidson, H., Anwar Efendi, R., & Budiarti, L. (2020). Pengaruh Teknik Budidaya Terhadap Serangan Penyakit Pada Tanaman Cabai Rawit (*Capsicum Frutescens* L.) Di Kecamatan Lempuing, Kabupaten Ogan Komering Ilir: Effect Of Cultural Technique On Disease Of Cayenne Pepper (*Capsicum Frutescens* L.) In Sub District Lempuing, Distict Ogan Komering Ilir. *J-Plantasimbiosa*, *2*(2), 41-52. Https://Doi.Org/10.25181/Jplantasimbiosa.V2i2.1741

Aung Kyaw, Jiang Yanjuan, He Sheng Yang. (2018). Peran Air Dalam Interaksi Tanaman-Mikroba. *The Plant Journal*. 93(4), 771–780. Doi: 10.1111/Tpj.13795.

Badan Pusat Statistik & Direktorat Jenderal Hortikultura. (2019). *Statistik Produksi Hortikultura Tahun 2019.* Badan Pusat Statistik Dan Direktorat Jenderal Hortikultura, Kementrian Pertanian.

Badan Pusat Statistik Provinsi Sumatra Barat. (2023). Produksi Tanaman Hortikultura Provinsi Sumatera Barat 2023. Bps Provinsi Sumatra Barat. Diakses 1 November 2024. Https://Sumbar.Bps.Go.Id/Id/Publication/2024/09/26/3474766909f50d06f360e2b6/Produksi-Tanaman-Hortikultura-Provinsi-Sumatera-Barat-2023.Html

Baker, C.J. (1991). Diversity In Biological Control. *Crop Protection.* 10, 85–95.

Bálint, M., Bartha, L., O'Hara, R. B., Olson, M. S., Otte, J., Pfenninger, M., Robertson, A. L., Tiffin, P., & Schmitt, I. (2015). Relocation, high-latitude warming and host genetic identity shape the foliar fungal microbiome of poplars. *Molecular Ecology*, *24*(1), 235–248. https://doi.org/10.1111/mec.13018

Barnett, H., and Hunter, B. (1999). *Illustrated genera of imperfect fungi (4th ed.):* St. Paul: APS.

Baroza, G. E., García, C. C., Bianchetti, L. de B., Romero, M. v., & Scaldaferro, M. (2022). Monograph of wild and cultivated chili peppers (*Capsicum* L., Solanaceae). *PhytoKeys*, *200*, 1–423. https://doi.org/10.3897/phytokeys.200.71667

Batool, F., Rehman, Y., & Hasnain, S. (2016). Phylloplane Associated Plant Bacteria Of Commercially Superior Wheat Varieties Exhibit Superior Plant Growth Promoting Abilities. *Frontiers In Life Science*, *9*(4), 313–322. Https://Doi.Org/10.1080/21553769.2016.1256842

Beattie Ga, Lindow Se. (1999). Kolonisasi Bakteri Pada Daun: Berbagai Strategi. *Fitopatologi*. 89, 353–359. Doi: 10.1094/Phyto.1999.89.5.353.

Bektas, I., & Kusek, M. (2019). Phylogenetic And Morphological Characterization Of *Fusarium Oxysporum* F. Sp. Cepae The Causal Agent Of Basal Rot On Onion Isolated From Turkey. *Fresenius Environmental Bulletin*, 28(3), 1733– 1742.

Benatar, G. V., Nurhayati, Y., & Kulsum, U. (2023). Biological Agent Trichoderma asperellum and Its in Vitro Inhibitory Activity Against Mango Fruit Rot Pathogens. *Jurnal Biologi Tropis*, *23*(3), 70–75. https://doi.org/10.29303/jbt.v23i3.4982

Benítez, T., Rincón, A. M., Limón, M. C., & Codón, A. C. (2004). Biocontrol mechanisms of Trichoderma strains. *International Microbiology : The Official Journal of the Spanish Society for Microbiology*, *7*(4), 249–260.

Bensch, K., Braun, U., Groenewald, J. Z., & Crous, P. W. (2012). The genus *cladosporium. Studies in Mycology*, 72, 1–401. https://doi.org/10.3114/sim0003

Budi Mulyani, R., Riak Asie, E., Oemar, O., Melhanah, M., & Damayanti, R. (2024). Efektivitas Seed Coating Berbahan Aktif Jamur Antagonis Mengendalikan Penyakit Rebah Kecambah Pada Bibit Cabai. *Jurnal Penelitian Pertanian Terapan*, 24(1), 67–79. Https://Doi.Org/10.25181/Jppt.V24i1.3301

Carlile, M.J., Watkinson, S.C. and Gooday, G.W. (2001). *The Fungi. London*, UK: Academic Press.

Carreras-Villaseñor, N., Sánchez-Arreguín, J. A., & Herrera-Estrella, A. H. (2012). Trichoderma: sensing the environment for survival and dispersal. *Microbiology*, *158*(1), 3–16. https://doi.org/10.1099/mic.0.052688-0

Carroll, G. (1988). Fungal Endophytes in Stems and Leaves: From Latent Pathogen to Mutualistic Symbiont. *Ecology*, 69(1), 2–9. https://doi.org/10.2307/1943154

Chakraborty, M., Mahmud, N. U., Ullah, C., Rahman, M., & Islam, T. (2021). Biological And Biorational Management Of Blast Diseases In Cereals Caused By *Magnaporthe Oryzae*. *In Critical Reviews In Biotechnology*. 41(7), 994–1022. Taylor And Francis Ltd. Https://Doi.Org/10.1080/07388551.2021.1898325

Cook, R.J. (1991). *Broad Concept And Application. Proc. Of The International Seminar On The Control Of Plant Disease And Virus Vector*. Food And Fertilizer Technology Centre For The Asian And Pacific Region, Taipei *Pp.* 1– 9.

Darliana, I., & Wilujeng, S. (2020). Isolasi dan Karakterisasi Jamur Indigenous dan Potensinya untuk Biodelignifikasi Isolation and Characterization Indigenous Fungi and its Potential for Biodelignification. *Jurnal Agrotek Indonesia*, 2(5): 1.

De Mandal, S., & Jeon, J. (2023). Phyllosphere Microbiome In Plant Health And Disease. *In Plants*. 12(19). *Multidisciplinary Digital Publishing Institute (Mdpi)*. Https://Doi.Org/10.3390/Plants12193481

Divya , Jagana, Hegde Yashoda, Lella Rajasekhar Lella. (2017) Cultural And Physiological Characterization Of Colletotrichum Musae, The Causal Agent Of Banana Anthracnose. Inter. *Jour. Of Appl. Biology And Pharmaceutical Technology,* 8(2), 22-30. Http://Dx.Doi.Org/10.21276/Ijabpt.

Djafaruddin, (2000), *Dasar-Dasar Pengendalian Penyakit Tanaman,* Bumi Aksara, Jakarta

Doni, F., Suhaimi, N. S. M., Mispan, M. S., Fathurrahman, F., Marzuki, B. M., Kusmoro, J., & Uphoff, N. (2022). Microbial Contributions For Rice Production: From Conventional Crop Management To The Use Of 'Omics' Technologies. *International Journal Of Molecular Sciences*, 23(2), 737. Https://Doi.Org/10.3390/Ijms23020737

Elkhateeb, W. A., Daba, G. M., Waill, C., Elkhateeb, A., Biomed, |, Sci, J. (2022). Insight into Secondary Metabolites of *Circinella, Mucor* and *Rhizopus* the Three Musketeers of Order Mucorales. *Article in Journal of Biomedical Science*, *41*(2). https://doi.org/10.26717/BJSTR.2022.41.006575

Eyal, Z., Scharen, A. L., Prescott, J. M., & van Ginkel, M. (1987). *The Septoria Diseases of Wheat: Concepts and Methods of Disease Management*. Mexico: CIMMYT.

Faticov, M., Abdelfattah, A., Roslin, T., Vacher, C., Hambäck, P., Blanchet, F. G., Lindahl, B. D., & Tack, A. J. M. (2021). Climate warming dominates over plant genotype in shaping the seasonal trajectory of foliar fungal communities on oak. *New Phytologist*, *231*(5), 1770–1783. https://doi.org/10.1111/nph.17434

Febbiyanti, T. R., Tistama, R., & Sarsono, Y. (2021). Karakterisasi Isolat Pestalotiopsis Pada Karet (Hevea Brasiliensis) Menggunakan Karakter Morfologi Dan Molekuler. *Jurnal Penelitian Karet*. 40(1), 151–162. https://doi.org/10.22302/ppk.jpk.v39i2.798

Fety, Khotimah, S., & Mukarlina. (2015). Uji Antagonis Jamur Rizosfer Isolat Lokal terhadap Phytophthora sp. yang Diisolasi dari Batang Langsat (*Lansium domesticum* Corr.), . *Protobiont, 4*(1), 218–225.

Frank, M. D. (2005). *The Identification of Fungi*, Minnesota: The American Phytopathological Society, pp. 107-115.

Gams, W., van der Aa, van der Plaatsniterink, Samson, R. A., & Stalpers, J. A.(1987). *Cbs Course Of Mycology*. Centralbereau Voor Schimmel Cultures, Belanda

Gandjar, I., R.A. Samson., Karin Van Der Tweel Vermulen., A. Oetari., I. Santoso. (1999). *Pengenalan Kapang Tropik Umum*. Yayasan Obor Indonesia. Jakarta

Gomes, T., Pereira, J. A., Benhadi, J., Lino-Neto, T., & Baptista, P. (2018). Endophytic and Epiphytic Phyllosphere Fungal Communities Are Shaped by Different Environmental Factors in a Mediterranean Ecosystem. *Microbial Ecology*, *76*(3), 668–679. https://doi.org/10.1007/s00248-018-1161-9

Goswami, S., Goel, N., & Majumdar, R. S. (2021). Phylloplane microbes impact host physiology: a review. *Journal of Plant Protection Research*, *61*(3), 213–221. https://doi.org/10.24425/jppr.2021.137949

Guzmán-Guzmán, P., Kumar, A., de los Santos-Villalobos, S., Parra-Cota, F. I., Orozco-Mosqueda, M. del C., Fadiji, A. E., Hyder, S., Babalola, O. O., & Santoyo, G. (2023). Trichoderma Species: Our Best Fungal Allies in the Biocontrol of Plant Diseases—A Review. *In Plants*. 12(3). MDPI. https://doi.org/10.3390/plants12030432

Halwiyah, N., Ferniah, R. S., Raharjo, B., Purwantisari, S., Soedarto, J., & Semarang, T. (2019). Uji Antagonisme Jamur Patogen Fusarium Solani Penyebab Penyakit Layu Pada Tanaman Cabai Dengan Menggunakan Beauveria Bassiana Secara In Vitro. *Jurnal Akademika Biologi*, *8*(2).

Harish, S., Saravanakumar, D., Kamalakannan, A.,Vivekananthan, R., Ebenezar, E. G. And Seetharaman, K. (2007). Phylloplane Microorganisms As A Potential Biocontrol Agent Against *Helminthosporium Oryzae* Breda De Hann, The Incitant Of Rice Brown Spot. *Archives Of Phytopathology And Plant Protection,* 40 (2), 148-157.

Herlina, L., Istiaji, B., & Wiyono, S. (2021). The Causal Agent Of Fusarium Disease Infested Shallots In Java Islands Of Indonesia. *E3s Web Of Conferences*, 232, 03003. Https://Doi.Org/10.1051/E3sconf/202123 203003

Herliyana, E. N., Oktavianto, P., & Siregar, U. J. (2022). Identification And Characterization Of Pestalotiopsis Spp. Causing Leaf Spot And Leaf Blight On Jabon (Neolamarckia Spp.) In Indonesia. *Biodiversitas*, *23*(12), 6547–6556. Https://Doi.Org/10.13057/Biodiv/D231253

Huang, S., Zha, X., & Fu, G. (2023). Affecting Factors Of Plant Phyllosphere Microbial Community And Their Responses To Climatic Warming—A Review. *In Plants*. 12(16). *Multidisciplinary Digital Publishing Institute (Mdpi)*. Https://Doi.Org/10.3390/Plants12162891

Inaya, N., Meriem, S., & Masriany, M. (2022). Identifikasi Morfologi Penyakit Tanaman Cabai (*Capsicum* Sp.) Yang Disebabkan Oleh Patogen Dan Serangan Hama Lingkup Kampus Uin Alauddin Makassar. *Filogeni: Jurnal Mahasiswa Biologi*, 2(1), 8–14. Https://Doi.Org/10.24252/Filogeni.V2i1.27092

Indrawati, A., Hartih, N. A., & Muyassara, M. (2019). Isolasi Dan Uji Potensi Fungi Endofit Kulit Batang Langsat (*Lansium domesticum* Corr.) Penghasil Antibakteri Terhadap *Staphylococcus aureus* Dan *Escherichia coli*. *Media Farmasi*, *15*(1), 36. https://doi.org/10.32382/mf.v15i1.776

Kalman, B., Abraham, D., Graph, S., Perltreves, R., Meller Harel, Y., & Degani, O. (2020). Isolation And Identification Of *Fusarium* Spp., The Causal Agents Of Onion (*Allium Cepa*) Basal Rot In Northeastern Israel. *Biology*, 9(4), 69. Https://Doi.Org/10.3390/Biology904006 9

Kirana, R., Kusmana, K., Hasyim, A., & Sutarya, R. (2016). Persilangan Cabai Merah Tahan Penyakit Antraknosa (*Colletotrichum acutatum*). *Jurnal Hortikultura*, *24*(3), 189. https://doi.org/10.21082/jhort.v24n3.2014.p189-195.

Kommula, S. K. (2017). Effect of Various Factors (Temperature, pH and Light Intensity) on Growth of Colletotrichum capsici Isolated from Infected Chilli. *International Journal of Pure & Applied Bioscience*, *5*(6), 535–543. https://doi.org/10.18782/2320-7051.3071

Kongtragoul, P, K Imamoto, & H Ishii. (2019). Resistance To Quinone-Outside Inhibition (Qol) Fungicides In *Colletotrichum* Species Isolate From Anthracnose Disease Occurring In Thailand. *Current Applied Science And Technology.* 20(1), 79–89.

Kusnadi, J., Wuri Andayani, D., & Zubaidah, E. (2019). Ekstraksi Senyawa Bioaktif Cabai Rawit (*Capsicum Frutescens* L. ) Menggunakan Metode Ekstraksi Gelombang Ultrasonik. *Jurnal Teknologi Pertanian*, 20(2). Https://Doi.Org/10.21776/Ub.Jtp.2019.020.02.1

Lagiman & Bambang, Supriyanta. (2021). *Karakterisasi Morfologi Dan Pemuliaan Tanaman Cabai*. Lppm Upn "Veteran" Yogyakarta: Yogyakarta.

Lambais, M. R., Crowley, D. E., Cury, J. C., Büll, R. C., & Rodrigues, R. R. (2006). Bacterial Diversity in Tree Canopies of the Atlantic Forest. *Science*, *312*(5782), 1917–1917. https://doi.org/10.1126/science.1124696

Laodja, Z. F., Fitriyanti, D., Prodi, A., Tanaman, P., Hpt, J., Pertanian, F., & Coresponden, U. (2025). Identifikasi Cendawan Pascapanen Pada Jagung Pakan Ternak Yang Dijual Pengecer Di Kota Banjarbaru. *Proteksi Tanaman Tropika*, 8(10).

Li, J., Jin, M.-K., Neilson, R., Hu, S.-L., Tang, Y.-J., Zhang, Z., Huang, F.-Y., Zhang, J., & Yang, X.-R. (2023). Plant identity shapes phyllosphere microbiome structure and abundance of genes involved in nutrient cycling. *Science of The Total Environment,* 865, 161245. https://doi.org/10.1016/j.scitotenv.2022.161245

Li, W. L., Dissanayake, A. J., Zhang, T., Maharachchikumbura, S. S. N., & Liu, J. K. (2022). Identification And Pathogenicity Of Pestalotiod Fungi Associated With Woody Oil Plants In Sichuan Province, China. *Journal Of Fungi*, *8*(11). Https://Doi.Org/10.3390/Jof8111175

Liu, H., Brettell, L. E., & Singh, B. (2020). Linking the Phyllosphere Microbiome to Plant Health. *Trends in Plant Science*, *25*(9), 841–844. https://doi.org/10.1016/j.tplants.2020.06.003

Lokare, P., & Fatima, S. (2021). Effect Of Different Solid Media On The Growth Of *Colletotrichum Gloeosporioides* (Penz.) Penz. & Sacc. Causing Anthracnose Disease Of Mango (*Mangifera Indica* L.). *International Journal Of Botany Studies*, 6, 611–615. Www.Botanyjournals.Com

Machenahalli, S., Nargund, V. B. & Patil, S. (2014). Quick Detection And Diagnosis Of Chilli Fruit Rot Ppatogens. *International Journal Of Plant Research*, 27(3), 1–5. Doi: 10.5958/2229-4473.2014.00087.1

Maharachchikumbura, S. S. N., Hyde, K. D., Groenewald, J. Z., Xu, J., & Crous, P. W. (2014). *Pestalotiopsis* revisited. *Studies in Mycology*, *79*(1), 121–186. https://doi.org/10.1016/j.simyco.2014.09.005

Manohara, D., Wahyuno, D., & Sukamto. (1994). Pengaruh Tepung Dan Minyak Cengkeh Terhadap *Phytophthora*, *Rigidoporus* Dan *Schlerotium*. Dalam Prosiding Seminar Hasil Penelitian Dalam Rangka Pemanfaatan Pestisida Nabati. Bogor 1-2 Desember. *Balittro, Bogor*. Hlm.19-27.

Marsuni, Y. (2020). Pencegahan Penyakit Antraknosa Pada Cabai Besar (Lokal: Lombok Ganal) Dengan Perlakuan Bibit Kombinasi Fungisida Nabati. *Prosiding Seminar Nasional Lingkungan Lahan Basah*, *5*(2), 113–116.

Mayasari, D. A., Sastrahidayat, I. R., & Djauhari, S. (2022). Eksplorasi Jamur Filoplan Pada Daun Tanaman Pedang-Pedangan (*Sansevieria Trifasciata*) Dan Uji Kemampuan Antagonismenya Terhadap Penyakit Antraksnosa (*Colletotrichum Sansevieria*). *Jurnal Hama Dan Penyakit Tumbuhan*, 10(3), 141–147. Https://Doi.Org/10.21776/Ub.Jurnalhpt.2022.010.3.4

Melotto, M., Underwood, W., & He, S. Y. (2008). Role of Stomata in Plant Innate Immunity and Foliar Bacterial Diseases. *Annual Review of Phytopathology*, *46*(1), 101–122. https://doi.org/10.1146/annurev.phyto.121107.104959

Melysa, Fajrin, N., & Astuti, M. E. D. (2013). Potensi *Trichoderma* Sp. Sebagai Agen Pengendali Fusarium Sp. Patogen Tanaman Strawberry (*Fragaria* Sp.) . *Jurnal Biotropika*, *1*(4).

Miftahussurur, A. D., Adhi, S. R., & Sugiarto, S. (2024). Identifikasi Jamur Antagonis Asal Media Limbah Jamur Merang Dan Potensinya Dalam Menekan *Rhizctonia solani* Penyebab Penyakit Penyakit Hawar Pelepah Padi (*Oryza*

*sativa* L.). *AGRORADIX : Jurnal Ilmu Pertanian*, *7*(2), 50–57. https://doi.org/10.52166/agroteknologi.v7i2.6561

Neti, N., Rianto, F., & Syahputra, E. (2024). Bakteri Filosfer Padi Dan Potensinya Sebagai Agens Hayati Terhadap Penyakit Hawar Malai Burkholderia Glumae. *Jurnal Sains Pertanian Equator*, 13(3), 933. Https://Doi.Org/10.26418/Jspe.V13i3.79681

Ngatiman, & Anggraeni, I. (2006). Penyakit Bercak Daun Pada Tanaman Ekaliptus. *Jurnal Penelitian Hutan Tanaman*, *3*(3), 183–191.

Nuangmek, W., Kumla, J., Khuna, S., Lumyong, S., & Suwannarach, N. (2023). Identification And Characterization Of *Fusarium* Species Causing Watermelon Fruit Rot In Northern Thailand. *Plants*, 12(4). Https://Doi.Org/10.3390/Plants12040956

Panjaitan, F. J., Lele, O. K., Adiputra Taopan, R., & Kurniawan, Y. (2020). Aplikasi Beberapa Jenis Dan Dosis Mikroorganisme Lokal Limbah Tomat Dan Sayuran Dalam Meningkatkan Pertumbuhan Dan Hasil Tanaman Cabai (*Capsicum annum* L.). *Jurnal Agroteknologi Dan Ilmu Pertanian*, 5(1). Https://Doi.Org/10.31289/Agr.V5i1.4479

Pari H. Sharef Mahmud, & Haider M. Hamza. (2020). Isolation And Identification Of Fungal Species In Kurdish Walnut Morphologically And Using Some Molecular Technique. *Journal Of Food And Dairy Sciences*, 11(1), 17–22. Https://Doi.Org/10.21608/Jfds.2020.77968

Polii, M. G. M., Sondakh, T. D., Raintung, J. S. M., Doodoh, B., Titah, T., Budidaya, J., Fakultas, P., Unsrat, P., Jurusan, ), & Fakultas, T. (2019). Kajian Teknik Budidaya Tanaman Cabai (*Capsicum Annuum* L.) Kabupaten Minahasa Tangerang A Study On Cultivation Techniques For Chili (*Capsicum Annuum L.*) In Southeast Minahasa Regency. *Eugenia*, 25(3).

Pratama, Sw, Sukamto, S, Asyiah, Is, & Ervina, Yv, (2013), 'Penghambatan Pertumbuhan Jamur Patogen Kakao *Phytophthora Palmivora* Oleh *Pseudomonas Fluorescens* Dan *Bacillus Subtilis', Jurnal Pelita Perkebunan*. 29(2), 120-127

Purwantisari, S., & Rini B. H. (2009). Uji Antagonisme Jamur Patogen *Phytophthora* Infestans Penyebab Penyakit Busuk Daun Dan Umbi Tanaman Kentang Dengan Menggunakan *Trichoderma* Spp. Isolat Lokal. *Bioma,* 11(1), 24-32

Ratnasari, J.D., Isnawati, & Ratnasari, E. (2014). Uji Antagonis Jamur Agens Hayati Terhadap Jamur *Cercospora Musae* Cause Disease Sigatoka By In Vitro. Lenterabio. 3(2): 129-135. http://ejournal.unesa.ac.id/index.php/lenterabio

Raya, Y.A.A, Swibawa, I.A. & Indriyati. (2014). Uji Patogenisitas *Jamur Beauveria Bassiana* Yang Diisolasi Dari *Hypothenemus* Hampei Pada Sitophilus Oryzae Di Tingkat Laboratorium. *Jurnal Agrotek Tropika*, 2(1): 115-118.

Ren, H. Y., Li, G., Qi, X. J., Fang, L., Wang, H. R., Wei, J. G., & Zhong, S. (2013). Identification And Characterization Of *Pestalotiopsis* Spp. Causing Twig Blight Disease Of Bayberry (*Myrica Rubra* Sieb. & Zucc) In China. *European Journal Of Plant Pathology*, *137*(3), 451–461. Https://Doi.Org/10.1007/S10658-013-0255-Y

Risdianto H., Setiadi, T., Suhardi, S.H., & Niloperbowo, W. (2007). Pemilihan Spesies Jamur Dan Media Imobilisasi Untuk Produksi Enzim Ligninolitik. *Prosiding Seminar Nasional Rekayasa Kimia Dan Proses*. Bandung.1 (6), 132-135

Ristiari, N. P. N., Julyasih, K. S. M., & Suryanti, I. A. P. (2018). Isolasi Dan Identifikasi Jamur Mikroskopis Pada Rizosfer Tanaman Jeruk Siam (*Citrus Nobilis Lour*.) Di Kecamatan Kintamani, Bali. *Jurnal Pendidikan Biologi Undiksha*. 6(1).

Rizali, A., & Sari, N. (2023). Daya Antagonisme *Trichoderma* Spp. Terhadap Patogen *Fusarium Oxysporum* Fo Penyebab Penyakit Layu Pada Bawang Merah. *Prosiding Seminar Nasional Lingkungan Lahan Basah*, 8(2), 204–210.

Rosfiansyah, & Sopialena. (2024). Identifikasi Dan Uji Antagonis *Trichoderma* Spp. Indigenus Beberapa Daerah Kalimantan Timur Terhadap Penyebab Penyakit Layu Tomat (*Fusarium Oxysporum*) Identification And Antagonists Testing Of Indigenous *Trichoderma* Spp. In Some Regions Of East Kalimantan Against Cause Of Tomato Wilt Disease (*Fusarium Oxysporum*). *Jurnal Agroekoteknologi Tropika Lembab*, 7(1). Https://Doi.Org/Doi.210.35941/Jatl

Safitri, N., Martina, A., & Roza, R. M. (2019). Uji Antagonis Cendawan Isolat Lokal Riau Terhadap Beberapa Cendawan Patogen Pada Tanaman Budi Daya. Al-Kauniyah: *Jurnal Biologi,* 12(2), 124–132. Https://Doi.Org/10.15408/Kauniyah.V12i2.8730

Safitri, Y., Pradana, R., Afifah Nugraheni, I., & Mindrati Fardhani, D. (2023). Uji Antagonis *Trichoderma* Spp. Terhadap *Colletotrichum* Spp. Penyebab Penyakit Antraknosa Pada Tanaman Cabai Rawit (*Capsicum Frutescens*) Secara In Vitro. *Prosiding Seminar Nasional Penelitian Dan Pengabdian Kepada Masyarakat Lppm Universitas 'Aisyiyah Yogyakarta*, 1, 491–497.

Sandy, Y. A., Djauhari, S., & Sektiono, A. W. (2015). Identifikasi Molekuler Jamur Antagonis *Trichoderma Harzianum* Diisolasi. *Journal Of The Medical Association Of Thailand*. 3(1), 1–8.

Sapitri, A., Diansari Marbun, E., & Mayasari, D. U. (2023). Penentuan Aktivitas Ekstrak Etanol Cabai Merah Dalam Menghambat Pertumbuhan Bakteri. *Jurnal Penelitian Saintek*. 79(1), 64–73.

Sari, N., & Kasiamdari, R. S. (2021). Identifikasi Dan Uji Patogenisitas *Colletotrichum Spp*. Dari Cabai Merah (*Capsicum Annuum*): Kasus Di Kricaan, Magelang, Jawa Tengah. *Jurnal Ilmu Pertanian Indonesia*, 26(2), 243–250. Https://Doi.Org/10.18343/Jipi.26.2.243

Saxena A, Raghuwanshi R, Gupta. V. K & Singh. H.B. (2016). Chili Anthracnose : The Epidemiology And Management Chilli Anthracnose : The Epidemiology And Management. *Frontiers In Microbiology.* 7, 1–18. Doi: 10.3389/Fmicb.2016.01527.

Shamsi, S. (2024). Checklist of Deuteromycetous fungi of Bangladesh – III. *Bioresearch Communications*, *10*(2), 1495–1500. https://doi.org/10.3329/brc.v10i2.74570

Shamyuktha, J., Sheela, J., Rajinimala, N., Jeberlinprabina, B. M., & Ravindran, C. (2020). Survey On Onion Basal Rot Disease Incidence And Evaluation Of Aggregatum Onion (*Allium Cepa* L. Var. Aggregatum Don.) Genotypes Against Fusarium Oxysporum F. Sp. Cepae. *International Journal Of Current Microbiology And Applied Sciences*, 9(7), 529–536. Https://Doi.Org/10.20546/Ijcmas.2020.9 07.058

Sharfuddin, C., & Mohanka, R. (2012). In vitro Antagonism of Indigenous Trichoderma Isolates Against Phytopathogen Causing Wilt of Lentil. *Int. J. Life Sci. Pharm*. Res. 2(3). L195-L202.

Shruti V, H., R Hegde, G., S Mulgund, G., & Upadhya, V. (2014). Pharmacognostic Evaluation Of Leaf And Fruit Of *Capsicum Frutescens* (Solanaceae). *Pharmacognosy Journal*, 6(3), 14–22. Https://Doi.Org/10.5530/Pj.2014.3.3

Siahaan, C. D., Sitawati., & Heddy, S. (2018). Uji Efektivitas Pupuk Hayati Pada Tanaman Cabai Rawit (*Capsicum Frutescens* L.). *Jurnal Produksi Tanaman*, 6(9), 2053–2061.

Siregar, A. B., Kasim, N. N., & Farida, N. (2020). Isolasi Dan Karakterisasi Biologi Bakteri Endofitik, Filosfer, Dan Rizosfer Dari Tanaman Sagu (*Metroxylon Sagu). Prosiding Seminar Nasional Biotik 2020*, Vol 8, No 1.

Sivakumar, N., Sathishkumar, R., Selvakumar, G., Shyamkumar, R., & Arjunekumar, K. (2020). *Phyllospheric Microbiomes: Diversity, Ecological Significance, and Biotechnological Applications* (pp. 113–172). https://doi.org/10.1007/978-3-030-38453-1_5

Solikhah. F., & J. Panggeso, (2020). “Respon Ketahanan Beberapa Varietas Cabai Rawit (*Capsicum Frutescens* L.) Terhadap Penyakit Antraknosa Yang Disebabkan Jamur *Colletotrichum Capsici*,” *Agrotekbis: Ejurnal Ilmu Pertanian*. 8(6), 1283–1290.

Sood, M., Kapoor, D., Kumar, V., Sheteiwy, M. S., Ramakrishnan, M., Landi, M., Araniti, F., & Sharma, A. (2020). *Trichoderma: The "Secrets" Of A Multitalented Biocontrol Agent. Plants*, 9. Https://Doi.Org/10.3390/Plants9060762

Sopialena, Arwita, N. N. P., & Suyadi. (2024). Antagonist Test Of *Trichoderma* Sp And *Gliocladium* Sp Againts Fungal Pathogens That Cause Diseases On Tomato Plant. *Jurnal Agroekoteknologi Tropika Lembab*, 1, 78–84.

Srinivas RP, Nigam A, Aruna J, Silva WCD, & Chikkaswanny BK. (2015). An investigation of biodiversity of endophytic fungi associated with some medical plants. *Intl J Adv Res Eng Appl Sci* 4 (2): 27-44

Stevens, V., Thijs, S., & Vangronsveld, J. (2021). Diversity And Plant Growth-Promoting Potential Of (Un) Culturable Bacteria In The Hedera Helix Phylloplane. *Bmc Microbiology,* 21 (1), 1-11.

Stone Bwg, Jackson Cr. (2021). Seasonal Patterns Contribute More Towards Phyllosphere Bacterial Community Structure Than Short-Term Perturbations. *Microbial Ecology.* 81, 146–156.

Suanda, I. W. (2019). Karakterisasi Morfologis *Trichoderma* Sp. Isolat Jb Dan Daya Hambatnya Terhadap Jamur *Fusarium* Sp. Penyebab Penyakit Layu Dan Jamur Akar Putih Pada Beberapa Tanaman. *Jurnal Widya Biologi*, *10*(02), 99–112. https://doi.org/10.32795/widyabiologi.v10i02.407

Sugiyama J., Sugiyama Y., Iizuka H., & Torii T. (1967). *Mycological studies of the Antarctic Fungi. Part 2. Mycoflora of Lake Vanda and Ice-Free Lake.* Report of the Japanese Summer Parties in Dry Valleys, Victoria Land, 1963–1965 28:23–32.

Sun, T., Lazouskaya, V., & Jin, Y. (2019). Polydimethylsiloxane Replicas Efficacy for Simulating Fresh Produce Surfaces and Application in Mechanistic Study of Colloid Retention. *Journal of Food Science*, *84*(3), 524–531. https://doi.org/10.1111/1750-3841.14479

Sutton, D. A., Timm, W. D., Morgan-Jones, G., & Rinaldi, M. G. (1999). Human Phaeohyphomycotic Osteomyelitis Caused by the Coelomycete *Phomopsis* Saccardo 1905: Criteria for Identification, Case History, and Therapy. *Journal of Clinical Microbiology*, *37*(3), 807–811. https://doi.org/10.1128/JCM.37.3.807-811.1999

Syahputra MH, Anhar A, Irdawati. (2017). Isolasi *Trichoderma* spp. dari Beberapa Rizosfer Tanaman Padi Asal Solok (Isolation *Trichoderma* spp. from Seme Rizosphere Rice Plants Solok). *Berkala Ilmiah Bidang Biologi*.1(2), 97–105

Than, P. P., Jeewon, R., Hyde, K. D., Pongsupasamit, S., Mongkolporn, O., & Taylor, P. W. J. (2008). Characterization and pathogenicity of *Colletotrichum* species associated with anthracnose on chilli ( *Capsicum* spp.) in Thailand. *Plant Pathology*, *57*(3), 562–572. https://doi.org/10.1111/j.1365-3059.2007.01782.x

Tiley, A. M. M., White, H. J., Foster, G. D., & Bailey, A. M. (2019). The ZtvelB Gene Is Required for Vegetative Growth and Sporulation in the Wheat Pathogen Zymoseptoria tritici. *Frontiers in Microbiology*, *10*. https://doi.org/10.3389/fmicb.2019.02210

Tombe, M. 2002. *Potensi Agensia Hayati Dalam Pengendalian Penyakit Tanaman Berwawasan Lingkungan Dan Peranannya Dalam Meningkatkan Sektor Agribisnis*. Hlm. 13–34. Prosiding Seminar Nasional PFI Komda Purwokerto.

Trigiano, R. N., Windham, M. T., & Windham, A. S. (2008). *Plant Pathology*. New York: Crc Press

Vebriansyah, R. 2018. *Tingkatkan Produktivitas Cabai*. Penebar Swadaya. Jakarta

Wagner, M. R., Roberts, J. H., Balint-Kurti, P., & Holland, J. B. (2020). Heterosis of leaf and rhizosphere microbiomes in field-grown maize. *New Phytologist*, *228*(3), 1055–1069. https://doi.org/10.1111/nph.16730

Wakhidah, N., Kasrina, K., & Bustamam, H. (2021). Keanekaragaman Jamur Patogen Pada Tanaman Cabai Merah (*Capsicum annuum* L.) Di Dataran Rendah. *Konservasi Hayati*, *17*(2), 63–68. https://doi.org/10.33369/hayati.v17i2.17920

Warisno; K. Dahana. (2010). *Peluang Usaha Dan Budidaya Cabai*. Pt. Gramedia Pustaka Utama. Jakarta. 124 H.

Wartono, W., Wawan, W., Susilowati, D. N., Sukamto, S., & Kosasih, J. (2023). Colletotrichum spp. Penyebab Penyakit Antraknosa Pada Tanaman Cabai Merah (Capsicum annuum) di Ciapus, Bogor, Jawa Barat. *Al-Kauniyah: Jurnal Biologi*, *17*(1), 81–90. https://doi.org/10.15408/kauniyah.v16i2.1.27460

Wei, L., Chen, W., Zhao, W., Wang, J., Wang, B., Li, F., Wei, M., Guo, J., Chen, C., Zheng, J., & Wang, K. (2020). Mutations and Overexpression of *CYP51* Associated with DMI-Resistance in *Colletotrichum gloeosporioides* from

Chili. *Plant Disease*, *104*(3), 668–676. https://doi.org/10.1094/PDIS-08-19-1628-RE

Wei, Y., Lan, G., Wu, Z., Chen, B., Quan, F., Li, M., Sun, S., & Du, H. (2022). Phyllosphere fungal communities of rubber trees exhibited biogeographical patterns, but not bacteria. *Environmental Microbiology*, *24*(8), 3777–3790. https://doi.org/10.1111/1462-2920.15894

Whipps, J. M., Hand, P., Pink, D., & Bending, G. D. (2008). Phyllosphere microbiology with special reference to diversity and plant genotype. *Journal of Applied Microbiology*, *105*(6), 1744–1755. https://doi.org/10.1111/j.1365-2672.2008.03906.x

Wibisono, Agung., Abdul , Majid, & Panimn, A.M. (2014). Efektivitas Beberapa Isolate *Pseudomonas Fluorescens* Untuk Mengendalikan Pathogen Jamur Rhizoctoniia Solani Pada Tanaman Keledai. *Berkala Ilmiah Pertanian*. 10(10).

Widiantini, F., Syahnur, F., Hidayat, Y., & Yulia, E. (2024). Isolation Of Potential Nitrogen-Fixing Phylloplane Bacteria And In Vitro Detection Of Their Ability To Inhibit The Growth *Of Colletotrichum*. *Jurnal Fitopatologi Indonesia*, 20(1), 32–44. Https://Doi.Org/10.14692/Jfi.20.1.32-44

Wu, W.-F., Li, X.-Y., Chen, S.-C., Jin, B.-J., Wu, C.-Y., Li, G., Sun, C., Zhu, Y.-G., & Lin, X.-Y. (2024). Nitrogen Fertilization Modulates Rice Phyllosphere Functional Genes And Pathogens Through Fungal Communities. Science Of *The Total Environment*, 929, 172622. Https://Doi.Org/10.1016/J.Scitotenv.2024.172622

Xie, J., Wang, X., Xu, J., Xie, H., Cai, Y., Liu, Y., & Ding, X. (2021). Strategies and Structure Feature of the Aboveground and Belowground Microbial Community Respond to Drought in Wild Rice (Oryza longistaminata). *Rice*, *14*(1), 79. https://doi.org/10.1186/s12284-021-00522-8

Yaninta Ginting, T., Warsito, K., & Sari Br Siregar, W. (2024). Pestisida Nabati Ekstrak Daun Mahoni Dan Sirsak Untuk Pengendalian Hama Spodoptera Exigua (*Lepidoptera:Noctuidiae*) Pada Tanaman Bawang Merah (*Allium Ascalonicum* L.). Penerbit Https://Tahtamedia.Co.Id/Index.Php/Issj/Article/View/1016 190 Tahta Media.

Zhao, Q., Liu, W., Li, Y., Ke, M., Qu, Q., Yuan, W., Pan, X., & Qian, H. (2020). Enantioselective Effects Of Imazethapyr Residues On Arabidopsis Thaliana Metabolic Profile And Phyllosphere Microbial Communities. *Journal Of Environmental Sciences,* 93, 57–65. Https://Doi.Org/10.1016/J.Jes.2020.03.009

Zhou, Y., Xiong, C., Wei, Z., Chen, Q., Ma, B., Zhou, S., Tan, J., Zhang, L., Cui, H., & Duan, G. (2022). Impacts of global change on the phyllosphere microbiome. *New Phytologist*, *234*(6), 1977–1986. https://doi.org/10.1111/nph.17928

Zhu, Y. G., Xiong, C., Wei, Z., Chen, Q. L., Ma, B., Zhou, S. Y. D., Tan, J., Zhang, L. M., Cui, H. L., & Duan, G. L. (2022). Impacts Of Global Change On The Phyllosphere Microbiome. In New Phytologist (Vol. 234, Issue 6, Pp. 1977–1986). *John Wiley And Sons Inc*. Https://Doi.Org/10.1111/Nph.17928

Zhu, Y.G., Xiong, C., Wei, Z., Chen, Q.L., Ma, B., Zhou, S.Y.D., Tan, J., Zhang, L.M., Cui, H.L., Duan, G.L., 2021. Impacts of global change on phyllosphere microbiome. *New Phytol* 234, 1977–1986.

Živković S, Stojanović S, Ivanović Ž, Gavrilović V, Popović T, Balaž J. 2010. Screening of antagonistic activity of microorganisms against *Colletotrichum acutatum and Colletotrichum gloeosporioides*. *Archives of Biological Sciences*. 62(3):611–623. DOI: https://doi. org/10.2298/ABS1003611Z