

LITERATURE

- Abd-Alla, M.H., S.R. Bashandy, S. Ratering, & S. Schnell. 2010. First report of soft rot of onion bulbs in storage caused by *Pseudomonas aeruginosa* in Egypt. *Journal of Plant Interaction* (4), 229-238. <https://doi.org/10.1080/17429145.2010.535618>
- Amarezan, N., K. Kumar, J. H. Naik, K.G. Bapatla, & R. K. Mishra. 2018. Chapter 8 - *Streptomyces* in Plant Growth Promotion: Mechanisms and Role. *Actinobacteria: Diversity and Biotechnological Applications*. 125-135 <https://doi.org/10.1016/B978-0-444-63994-3.00008-4>
- Ameen, A. and S. Raza. 2017. Green Revolution: A Review. *International Journal of Advances in Scientific Research*. 3(12): 129-137. <https://doi.org/10.7439/ijasr>
- Bakker, R. L. Berendsen, J. A. Van Pelt, G. Vismans, Ke Yu, Erqin Li, Sietske Van Bentum, Sanne W.M. Poppeliers, Juan J. S. Gil, H. Zhang, P. Goossens, I. A. Stringlis, Y. Song, R. de Jonge, C. M.J. Pieterse, & A.H.M. Peter. 2020. The soil-borne identity and microbiome-assisted agriculture: looking back to the future. *Molecular Plant* 13: 1395–1402.
- Benito, P., L. Carro, R. Bacigalupe, M. Ortúzar, & M. E. Trujillo. 2022. From Roots to Leaves: The Capacity of *Micromonospora* to Colonize Different Legume Tissues. *Phtobiomes Journal*. 6(1), 35-44. <https://doi.org/10.1094/PBIOMES-02-21-0015-R>**
- Bharadwaj, A. 2020. microbial adaptation and cotreatment-enhanced biomass solubilization in lignocellulosic anaerobic digestion. dissertation, penn state university.
- Bernardip, B.R., Hadiwiyono, & Sudadi. 2014. Diversity of Fungi and Bacteria of Shallot Rizosphere Against Twisted Pathogen. *Jurnal Ilmu Tanah dan Agroklimatologi* 11 (1): 52-60.
- Blevins S.M. & M.S. Bronze. 2010. Robert Koch and the “golden age” of bacteriology. *International Journal of Infectious Diseases* 14:744-751. doi:10.1016/j.ijid.2009.12.003
- Canto, C. D. L. F., M. Simonin, E. King, L. Moulin, M. J. Bennett, G. Castrillo, & L. Laplace. 2020. An extended root phenotype: the rhizosphere, its formation and impacts on plant fitness. *The Plant Journal*. 103: 951–964. doi: 10.1111/tpj.14781
- Cerny G. 1978. Studies on the aminopeptidase test for the distinction of gram-negative from gram-positive bacteria. *Eur. J. Appl. Microbiol. Biotechnol.* 5, 113–122. 10.1007/BF00498805
- Chaparro, J.M., Badri, D.V., Bakker, M.G., Sugiyama, A., Manter, D.K. and Vivanco, J.M. (2013) Root exudation of phytochemicals in *Arabidopsis* follows specific patterns that are developmentally programmed and correlate with soil microbial functions. *PLoS ONE*, 8, e55731
- Chen, Y.L., C.C. Lee, Y.L. Lin, K.M. Yin, C.L. Ho, & T. Liu. 2015. Obtaining long 16S rDNA sequences using multiple primers and its application on dioxin-containing samples. *BMC Bioinformatics*. 16(18). doi: [10.1186/1471-2105-16-S18-S13](https://doi.org/10.1186/1471-2105-16-S18-S13)
- Crandall SG, Gold KM, Jime'nez-Gasco MdM, Filgueiras CC, Willett DS (2020) A multiomics approach to solving problems in plant disease ecology. *PLoS ONE* 15(9): e0237975. <https://doi.org/10.1371/journal.pone.0237975>.

Cordovez, V., S.Schop, K. Hordijk, H.D. de Boulois, F. Coppens, I. Hanssen, J.M. Raaijmakers, & V.J. Carrion. 2019. Priming of Plant Growth Promotion by Volatiles of Root-Associated *Microbacterium* spp. [Appl Environ Microbiol.](#) 84(22): e01865-18. doi: 10.1128/AEM.01865-18.

Daims, H. & M. Wagner. 2011. Research on Nitrification and Related Processes, Part B. [Methods in Enzymology](#)

Danaatmadja, Y., S. Subandiyah, T. Joko, % C. U. Sari. Isolation and characterization of *Ralstonia syzygii*. Jurnal Perlindungan Tanaman Indonesia 15(1), 7-12.

De Wilde-Duyfjes, B. E. E. 1973. Typification of 23 Allium Species Described by Linnaeus and Possibly Occurring in Africa. Taxon, 22 (1): 57-91.

Directorate General of Plantations. 2021. Jenis-Jenis Metode Pembuatan Kompos

<https://ditjenbun.pertanian.go.id/jenis-jenis-metode-pembuatan-kompos/>

Dubey, A., M. A. Malla, F. Khan, K. Chowdhary, S. Yadav, A. Kumar, S. Sharma, P. K. Khare and M. L. Khan. 2019. Soil microbiome: a key player for conservation of soil health under changing climate. <https://doi.org/10.1007/s10531-019-01760-5>

Duczek, L.J. 1997. Biological control of common root rot in barley by *Idriella bolleyi*. *Canadian Journal of Plant Pathology* 19, 402-405. <https://doi.org/10.1080/0706069709501067>

Effendi, Y., A. Pambudi, & A. Pancoro. 2019. Metagenomic analysis of Fusarium oxysporum f.sp. cubense-infected soil in banana plantation, Sukabumi, Indonesia. Biodiversitas. 20 (7): 1939-1945.

El-Mehalawy, A.A. 2004. The Rhizosphere Yeast Fungi as Biocontrol Agents for Wilt Disease of Kidney Bean caused by Fusarium oxysporum. international journal of agriculture & biology. 6 (2), 308-316.

Gerritsen, J. 2015. The genus Romboutsia : genomic and functional characterization of novel bacteria dedicated to life in the intestinal tract. PhD thesis, Wageningen University.

Gagelidze, N.A., L.L. Amiranashvili, T.A. Sadunishvili, G.L. Kvesitadze, T. F. Urushadze, & T.O. Kvirivishvili. 2018. Bacterial composition of different types of soils of Georgia. Annals of Agrarian Science 16, 17-21.

Gleason, F.H., B. Pilgaard, L.E. Henderson and L. Lange. 2019. The key ecological role and biology of Rhizophlyctis rosea, a zoosporic, early lineage fungus in soil ecosystems. Current trend in Microbiology, 1-14.

González-Mendoza, D., R. Argumedo-Delira , A. Morales-Trejo , A. Pulido-Herrera , L. Cervantes-Díaz , O. Grimaldo-Juarez and A. Alarcón. 2010. A rapid method for isolation of total DNA from pathogenic filamentous plant fungi. Genetics and Molecular Research. 9 (1): 162-166.

Gotelli, N.J. & R.K. Colwell. 2011. Estimating species richness. Oxford University Press.

Haldar, S. & S. Sengupta. 2015. Plant-microbe Cross-talk in the Rhizosphere: Insight and Biotechnological Potential. *The Open Microbiology Journal.* 9: 1-71.

Ham, S.H. , A R. Yoon, H. E. Oh & Y. G. Park. 2022. Plant Growth-Promoting Microorganism Pseudarthrobacter sp. Enhances the Growth and Flavonoid Content of Geum aleppicum. Microorganisms. 10 (1241): 1-10.

Hartmann, A. M. Rothballer & Michael Schmid .2008. Lorenz Hiltner, a pioneer in rhizosphere microbial ecology and soil bacteriology research. *Plant Soil*. 312: 7–14. DOI 10.1007/s11104-007-9514-z

Hartmann, A. M. Schmid, D. Van Tuinen, & G. Berg. 2009. Plant-driven selection of microbes. *Plant Soil*. 321: 235–257.

Hasan, F., D.H. Darwanto, Masyhruri, & W. Adiyoga. 2016. Risk management strategy on shallot farming in Bantul and Nganjuk regency. *Ilmu Pertanian* 1 (2):080-087. DOI: doi.org/10.22146/ipas.12534

Hassine, M., Aydi-Ben-Abdallah, R., Jabnoun-Khireddine, H. *et al.* Soil-borne and compost-borne *Penicillium* sp. and *Gliocladium* spp. as potential microbial biocontrol agents for the suppression of anthracnose-induced decay on tomato fruits. *Egypt J Biol Pest Control* **32**, 20 (2022). <https://doi.org/10.1186/s41938-022-00519-5>

Hastuti, R.D. & R.C.B. Ginting. 2007. Metode Analisis Biologi Tanah:: enumerasi bakteri, cendawan, dan aktinomisetes. Balai Besar Litbang Sumberdaya Lahan Pertanian, Departemen Pertanian, Bogor.

Hay, F., S. Stricker, B.D. Gossen, M.R. McDonald, D. Heck, C. Hoepting, S. Sharma, & S. Pethybridge. 2021. Stemphylium Leaf Blight: A Re-Emerging Threat to Onion Production in Eastern North America. *American Phytopathological society*. 105 (12). <https://doi.org/10.1094/PDIS-05-21-0903-FE>

Herlina, L., B. Istiaji, & S. Wiyono. 2021. The Causal Agent of Fusarium Disease Infested Shallots in Java Islands of Indonesia. *E3S Web of Conferences* 232, 1-10. <https://doi.org/10.1051/e3sconf/202123203003>

Hossain, [F. Sultana](#), [M.Kubota](#), [H. Koyama](#), & [M. Hyakumachi](#). 2007. The Plant Growth-Promoting Fungus *Penicillium simplicissimum* GP17-2 Induces Resistance in *Arabidopsis thaliana* by Activation of Multiple Defense Signals. *Plant and Cell Physiology*, 48 (12): 1724–1736. <https://doi.org/10.1093/pcp/pcm144>

Husen, E. 2007. Metode Analisis Biologi Tanah: pengambilan contoh tanah untuk analisis mikroba. Balai Besar Litbang Sumberdaya Lahan Pertanian, Departemen Pertanian, Bogor.

Jamil, F.N., A. M. Hashim, M. T. Yusof & N. B. Saidi. 2022. Analysis of soil bacterial communities and physicochemical properties associated with Fusarium wilt disease of banana in Malaysia . *Nature portfolio, Scientific Reports* | (2022) 12:999. <https://doi.org/10.1038/s41598-022-04886-9>

Kastono, D. 2012. Application of Integrated Land Manipulation Model, Effort of Increasing Sustainable Horticulture Production in Coastal Sandy Land. *Jurnal Ilmu-ilmu Pertanian*. 3 (2):112-123.

Kazerooni EA, Maharachchikumbura SSN, Rethinasamy V, Al-Mahrouqi H and Al-Sadi AM (2017) Fungal Diversity in Tomato Rhizosphere Soil under Conventional and Desert Farming Systems. *Front. Microbiol*. 8:1462. doi: 10.3389/fmicb.2017.01462

Khaeruni, A. & Rahman, A. (2012) Penggunaan bakteri kitinolitik sebagai agens biokontrol penyakit busuk batang oleh *Rhizoctonia solani* pada tanaman kedelai. *Jurnal Fitopatologi*, 8 (2), 37–43. doi: 10.1007/978-3-642-30433-0.

Khotimah, K., E. Sulistyaningsih, & A. Wibowo. 2017. In Vitro Induced Resistance of Fusarium Wilt Disease (*Fusarium oxysporum* f.sp. *cepae*) by Salicylic Acid in Shallot CV 'Bima Brebes'. *Jurnal Ilmu Pertanian*. 2(1):1-8. DOI: [10.22146/ipas.12840](https://doi.org/10.22146/ipas.12840)

- Ko, W.H., C.H. Yang, L.M. Ju, C. Y. Chen, & J. Y. Tsu. 2011. *Humicola phialophoroides* sp. nov. from soil with potential for biological control of plant diseases. *Botanical studies*, 52(2), 197-202.
- Kurtzman, C.P. 2011. Chapter 80 - *Wickerhamomyces* Kurtzman, Robnett & Basehoar-Powers. The Yeasts (Fifth Edition). Pp 899-917. <https://www.sciencedirect.com/science/article/pii/B978044452149100080X>
- Lakshmanan, V., Ray, P., and Craven, K. D. (2017). Toward a Resilient, Functional Microbiome: Drought Tolerance-Alleviating Microbes for Sustainable Agriculture. *Plant Stress Tolerance* 163, 69–84. doi: 10.1007/978-1- 4939-7136-7_4
- Le, Dung, K. Audenaert & G. Haesaert. 2021. *Fusarium* basal rot: profile of an increasingly important disease in *Allium* spp. *Tropical Plant Pathology*. 46:241–253.
- Lemanceau, P., M. Barret, S. Mazurier, S. Mondy, B. Pivato, T. Fort, & C. Vacher. 2017. Plant communication with associated microbiota in the spermosphere, rhizosphere and phyllosphere. In : *Advances in Botanical Research* 82 (ed). Elsevier Academic Press.
- Lestiyani, A., A. Wibowo, S. Subandiyah, C. Gambley, S. Ito and S. Harper. 2016. Identification of *Fusarium* spp., the causal agent of twisted disease of shallot. *Acta Hortic*. 1128. ISHS 2016. DOI 10.17660/ActaHortic.2016.1128.22 155-160.
- Li, Y., Tremblay, J., Bainard, L. D., Cade-Menun, B., and Hamel, C. (2020b). Long-term effects of nitrogen and phosphorus fertilization on soil microbial community structure and function under continuous wheat production. *Environ. Microbiol.* 22, 1066–1088. doi: 10.1111/1462-2920.1482
- Lihtfouse, E. 2015. *Sustainable Agriculture Reviews: Volume 15*. Springer publisher. DOI: [10.1007/978-3-319-09132-7](https://doi.org/10.1007/978-3-319-09132-7)
- Lisboa, B.B., C. Bayer, L. M. P. Passaglia, F. A. de Oliveira Camargo, A. Beneduzi, A. Ambrosini & L. K. Vargas. (2015). Soil fungistasis against *Fusarium graminearum* under different crop management systems. *R. Bras. Ci. Solo*, 39:69-77. <https://doi.org/10.1590/01000683rbc20150683>
- Liu H, Brettell LE, Qiu Z, Singh BK. 2020. Microbiome-mediated stress resistance in plants. *Trends in Plant Science*. <https://www.biorxiv.org/content/biorxiv/early/2022/05/11/2022.05.11.491565.full.pdf>
- Lopez-Diaz, C., V. Rahjoo, M. Sulyok, V. Ghionna, A. Martin-Vicente, J. Capilla, A. Di Pietro & M. S. Lopez-Berges. 2018. Fusaric acid contributes to virulence of *Fusarium oxysporum* on plant and mammalian hosts. *MOLECULAR PLANT PATHOLOGY*. 19 (2): 440–453. DOI: 10.1111/mpp.12536
- López-González, J.A., M.C. Vargas-García, M.J. López, F. Suárez-Estrella, M. MarJurado, & J. Moreno. 2015. Biodiversity and succession of mycobiota associated to agricultural lignocellulosic waste-based composting. *Bioresource Technology*, 187, 305-313.
- Lyons R, Stiller J, Powell J, Rusu A, Manners JM, Kazan K. 2015. *Fusarium oxysporum* Triggers Tissue-Specific Transcriptional Reprogramming in *Arabidopsis thaliana*. *PLoS ONE* 10(4): e0121902. doi:10.1371/journal.pone.0121902
- Mankvuld, G.P. 2017. Chapter 4: *Fusarium* Species and Their Associated Mycotoxins. DOI 10.1007/978-1-4939-6707-0_4,
- Manurung, M. 2019. *Buletin konsumsi pangan: Bawang merah*. 56-62 p.

- Masenya, K., M.F. Adegboye & O.O. Babalola. 2013. Identification of native rhizosphere community composition of bacteria in Mahikeng soil, South Africa. *The Asian International Journal of Life Sciences* . Asia life science supplement 9: 129-147.
- Masetti, R., A. [Prodi](#), [A. Liberatore](#), [F. Carfagnini](#), [E. Cappelletti](#), [D. Leardini](#), [A. Pession](#), [E. D. Carolis](#), & [Monica Cricca](#). 2017. Occurrence of *Albifimbria verrucaria* in the Blood of a Female Child With Neuroblastoma. [Front Med \(Lausanne\)](#). 7 (13), 1-6. doi: [10.3389/fmed.2020.00013](https://doi.org/10.3389/fmed.2020.00013)
- Matson, P. A., W. J. Parton, A. G. Power, & M. J. Swift. 1997. Agricultural Intensification and Ecosystem Properties. *SCIENCE*. 277:504-506.
- Maude RB 1998. Onion diseases. In: Jones DG (ed) *The epidemiology of plant diseases*. Springer, Dordrecht, 404–422 p.
- Miao, Cui-Ping ., Qi-Li Mi, Xin-Guo Qiao , You-Kun Zheng , You-Wei Chen ,Li-Hua Xu , Hui-Lin Guan and Li-Xing Zhao. 2015. Rhizospheric fungi of *Panax notoginseng*: diversity and antagonism to host phytopathogens. [J Ginseng Res](#) 40 : 127-134.
- Moaledj K. 1986. Comparison of Gram-staining and alternate methods, KOH test and aminopeptidase activity in aquatic bacteria: their application to numerical taxonomy. *J. Microbiol. Methods* 5, 303–310. [10.1016/0167-7012\(86\)90056-4](https://doi.org/10.1016/0167-7012(86)90056-4)
- Morita, R.Y., & C. L. Moyer. 2001. *Encyclopedia of Biodiversity* (2nd edition).
- Munkvold, G. P. 2017. Mycotoxigenic fungi: Chapter 4. *Fusarium* Species and Their Associated Mycotoxins. Springer Science. DOI [10.1007/978-1-4939-6707-0_4](https://doi.org/10.1007/978-1-4939-6707-0_4)
- Mustika, A.M., P. Suryani, & T. Aulawi. 2019. Analysis of Chemical and Organoleptic Qualities of Organic Fertilizer of Oil Palm Empty Bunch With Different EM-4 Doses. *Jurnal Agroteknologi*, 9 (2), 13 – 20
- Naghooni, A. , G. Emtiazi, M. A. Amoozegar, Z. Etemadifar, & S. A. S. Fazeli. 2016. REP-PCR Analysis to Study Prokaryotic Biodiversity from Lake Meyghan. *International Letters of Natural Sciences*. 61, 69-84. doi:[10.18052/www.scipress.com/ILNS.61.69](https://doi.org/10.18052/www.scipress.com/ILNS.61.69)
- Odelade, K. A. and O.O. Babola. 2019. Bacteria, Fungi and Archaea Domains in Rhizospheric Soil and Their Effects in Enhancing Agricultural Productivity. *Int. J. Environ. Res. Public Health Vol* (16); 3873. <https://doi.org/10.3390/ijerph16203873>
- Ogorek, R. & E. Plaskowska. 2011. *Epicoccum nigrum* for biocontrol agents in vitro of plant fungal pathogens. *Communication Agricultural Application Biological Science* 76 (4):691-700.
- Ons, L. D. Bylemans, K. Thevissen & B. P. A. Cammue. 2020. Combining biocontrol agents with chemical fungicides for integrated plant fungal disease control. *Microorganisms Journal*. 8 (1930): 1-19. doi:[10.3390/microorganisms8121930](https://doi.org/10.3390/microorganisms8121930).
- Op De Beeck M, Lievens B, Busschaert P, Declerck S, Vangronsveld J, et al. (2014) Comparison and Validation of Some ITS Primer Pairs Useful for Fungal Metabarcoding Studies. *PLoS ONE* 9(6): e97629. doi:[10.1371/journal.pone.0097629](https://doi.org/10.1371/journal.pone.0097629)
- Ozimek, E. & A. Hanaka. 2020. *Mortierella* Species as the Plant Growth-Promoting Fungi Present in the Agricultural Soils. *Agriculture*, 11 (1), 1-18.doi [10.3390/agriculture11010007](https://doi.org/10.3390/agriculture11010007)

Puspitasari, A. M., Kiloos, Hardiyanto, & A. Sulistyaningrum. 2019. Farmer's behavior in using pesticides on shallots cultivation in Solok Highlands, West Sumatera. IOP Conf. Series: Earth and Environmental Science. 399: 1-10. [doi:10.1088/1755-1315/399/1/012116](https://doi.org/10.1088/1755-1315/399/1/012116)

Pal, A., R. Adhikary, M. Bera, R. Garanayak, & S. K. De. 2020. Soil and water quality for healthy crop: a review study. Bioscience Biotechnology Research Communications. 12 : 73-77.

Patreze, C.M., E.N. De Paulo, A.P. Martinelli, E.J.B. Cardoso, and S.M. Tsai. (2009). Characterization of fungal soil communities by F-RISA and arbuscular mycorrhizal fungi from *Araucaria angustifolia* forest soils after replanting and wildfire disturbances. SYMBIOSIS (48), 164–172. <https://doi.org/10.1007/BF03179995>

Poromarto, S.H., Supyani, Supriyadi, S.A. Indriani, & Hadiwiyono. 2021. Trichoderma and Bacillus as Combined Biocontrol Agent of Twisted Disease on Shallots. Proceedings of the International Seminar on Promoting Local Resources for Sustainable Agriculture and Development (ISPLRSAD) 2020. *Advances in Biological Sciences Research*, 13: 92-95

Preston G.M. 2004. Plant perceptions of plant growth-promoting *Pseudomonas*. Philos Trans R Soc Lond B Biol Sci. 359(1446):907-918. doi: 10.1098/rstb.2003.1384.

Prijambada, I. D., R. A. Sitompul, J. Widada & D. Widiyanto. 2012. Impact of Agricultural Intensification Practices on Bacterial Community in Agro-ecosystems of Southern Sumatra, Indonesia. International Journal Of Agriculture & Biology, 14(5), 816–820

Qaisrani, M. M., A. Zaheer, M. S. Mirza, T. Naqqash, T. B. Qaisrani, M. K. Hanif, G. Rasool, Kauser A. Malik, S. Ullah, M. S. Jamal, Z. Mirza, S. Karim and M. Rasool. 2019. A comparative study of bacterial diversity based on culturable and culture-independent techniques in the rhizosphere of maize (*Zea mays* L.). Saudi Journal of Biological Sciences. 26: 1344–1351.

Rämö, S., M. Haapalainen, & Satu Latvala. 2021. Development and Validation of a UHPLC-MS/MS Method for the Analysis of Fusarium Mycotoxins in Onion. Food Analytical Methods 14 (2), 1-13. DOI: [10.1007/s12161-021-01992-8](https://doi.org/10.1007/s12161-021-01992-8)

Ranjard, L., E. Brothier, & S. Nazaret. 2000. Sequencing bands of ribosomal intergenic spacer analysis fingerprints for characterization and microscale distribution of soil bacterium populations responding to mercury spiking. Applied And Environmental Microbiology, 66(12), 5334-5339. <https://doi.org/10.1128/AEM.66.12.5334-5339.2000>

Ranjard, L., F. Poly, J.-C. Lata, C. Mougél, J. Thioulouse, And S. Nazaret. 2001. Characterization of Bacterial and Fungal Soil Communities by Automated Ribosomal Intergenic Spacer Analysis Fingerprints: Biological and Methodological Variability. Applied And Environmental Microbiology, .4479–4487. <https://doi.org/10.1128/AEM.67.10.4479-4487.2001>

Rajiman, P. Yudono, E. Sulistyaningsih and E. Hanudin. 2008. Effect of soil conditioner on soil physics and shallot yield in coastal sandy land of Bugel. Agrin. 12 (1): 67-77.

Ray P, Lakshmanan V, Labbé JL and Craven KD (2020) Microbe to Microbiome: A Paradigm Shift in the Application of Microorganisms for Sustainable Agriculture. Front. Microbiol. 11:622926. doi: 10.3389/fmicb.2020.622926

Salunke. V.N., S. Anandhan, S. J. Gawande, R. B. Ikkar, Y. S. Bhagat, and V. Mahajan. 2017. First Report of *Colletotrichum truncatum* Causing Anthracnose of Mouse Garlic

- Sasaki, K., K. Nakahara, S. Tanaka, M. Shigyo, & S. Ito. 2015. Genetic and Pathogenic Variability of *Fusarium oxysporum* f. sp. *cepae* Isolated from Onion and Welsh Onion in Japan. 105 (4), 525-532. <https://doi.org/10.1094/PHYTO-06-14-0164-R>
- Sandle, T. 2011. History and development of microbiological culture media. The Journal (Institute of Science and Technology), Winter 2010-2011, pp10-14
- Seifert, K.A., G. Louise-Seize, R.A. Samson and T. Boekhout. 2011. Remersonia, a new genus for *Stilbella thermophila*, a thermophilic mould from compost. Canadian Journal of Botany 75 (7): 1158-1165. DOI: [10.1139/b97-828](https://doi.org/10.1139/b97-828)
- Sintayehu, A., P.K. Sakhuja, C. Fininsa, S. Ahmed. 2011. Management of fusarium basal rot (*Fusarium oxysporum* f. sp. *cepae*) on shallot through fungicidal bulb treatment. Journal of Crop Protection 30:560-565
- Siegler, V. (2004). Ribosomal Intergenic Spacer analysis (RISA). Retrived from http://www.eeescience.utoledo.edu/faculty/sigler/Von_Sigler/LEPR_Protocols_files/RISA.pdf
- Sudarma, I M., D. N. Suprpta, I M. Sudana & I G. R. M. Temaja. 2015. Aplikasi *Polymerase Chain Reaction-Ribosomal Intergenic Spacer Analysis* (PCR-RISA) untuk menentukan keragaman mikroba tanah pada habitat tanaman pisang dengan dan tanpa gejala layu *Fusarium*. Jurnal Bumi Lestari, 12 (2), 313 – 320.
- Suhardi, H.A. 1993. Anthracnose on shallot (*Allium cepa* group *aggregatum*) in Java. <https://www.cabi.org/ISC/abstract/19942303386#:~:text=Abstract,readily%20through%20rainsplashing%20of%20conidia>.
- Sutardi and H. Porwoningsih. 2018. Environment-Friendly Cultivation of Shallot on Sandy Land as Specified Location in Yogyakarta. Jurnal Sumberdaya HAYATI Vol. 4 (1): 1-6
- Tao, J., J. Wang, X. Zheng, A. Jia, M. Zou, J. Zhang, & X. Tao. 2022. Effects of Tetracycline and Copper on Water Spinach Growth and Soil Bacterial Community. *Processes*. 10(6), 1135. <https://doi.org/10.3390/pr1006113>
- Trijoko, M. P. Koentjoro, S. Somowiyarjo, M. S. Rohman, A. Liana & N. Ogawa. 2012. Response of rhizobacterial communities in watermelon to infection with *cucumber green mottle mosaic virus* as revealed by cultivation dependent RISA. Archives Of Phytopathology And Plant Protection, 45(15), 1810-1818. <https://doi.org/10.1080/03235408.2012.707526>
- Vanegas-León, M. L. & M. A. Sulzbacher, A. C. Rinaldi, M. Roy, M. A. Selosse, & M. A. Neves. 2019. Are Trechisporales ectomycorrhizal or non-mycorrhizal root endophytes?. Mycological Progress, 18:1231–1240. <https://doi.org/10.1007/s11557-019-01519-w>
- Viaud, M., A. Pasquier, & Yves Brygoo. 2000. *Diversity of soil fungi studied by PCR-RFLP of ITS.*, 104(9), 1027-1032. doi:10.1017/s0953756200002835
- Wahyuningsih, E., E. Faridah, Budiadi, & A. Syahbudin. 2019. Komposisi dan keanekaragaman tumbuhan pada habitat ketak (*Lygodium circinatum* (BURM.(SW.) di Pulau Lombok, Nusa Tenggara Barat. Jurnal Hutan Tropis 7 (1), 92-105.
- Watt, B. 2018. Black mold (*Aspergillus niger*). <https://www.invasive.org/browse/detail.cfm?imgnum=5530316>

Wibowo, A., I. A. Santika, L. M. Syafitri, A. Widiastuti, & S. Subandiyah . 2022. Incidence of twisted disease and cultivation practice of shallot farmers in Bantul, Yogyakarta, Indonesia. unpublished.

Yanuarti and Afsari. 2016. Profil Komoditas Bawang Merah. Kementerian perdagangan Indonesia. Jakarta. 38 p.

Yurgel, S.N., G.M. Douglas, A.M. Comeau, M. Mammoliti, A. Dusault, D. Percival & M.G.I. Langille. 2017. Variation in Bacterial and eukaryotic communities associated with natural and managed wild blueberry habitats. *Phytobiomes*. 1: 102-113.

Zhai, Y., Jiu-xiang Zhu, T. M. Tan, J. P. Xu, A. R. Shen, X. B. Yang, J. L. Li, L. B. Zeng & Lin Wei. 2021. Isolation and characterization of antagonistic *Paenibacillus polymyxa* HX-140 and its biocontrol potential against *Fusarium* wilt of cucumber seedling. *BMC Microbiology* 21:75

Zhelezova, A., T. Chernov, D. Nikitin, A. Tkhakakhova, N. Ksenofontova, A. Zverev, O. Kutovaya, & M. Semenov. 2022. Seasonal Dynamics of Soil Bacterial Community under Long-Term Abandoned Cropland in Boreal Climate. *Agronomy*, 12, 519. <https://doi.org/10.3390/agronomy12020519>