

DAFTAR PUSTAKA

- Amalia, D., & Fajri, D. R. (2020). Analisis Kadar Nitrogen dalam Pupuk Urea Prill dan Granule Menggunakan Metode Kjeldahl di PT Pupuk Iskandar Muda. *Quimica Jurnal Kimia Sains Dan Terapan*, 2(1), 28–32. <https://ejournalunsam.id/index.php/JQ>
- Aprilia, I., Maharijaya, A., & Wiyono, S. (2020). Keragaman Genetik dan Ketahanan terhadap Penyakit Layu Fusarium (*Fusarium oxysporum* f.sp *cepae*) Bawang Merah (*Allium cepa* L. var. *aggregatum*) Indonesia. *Jurnal Hortikultura Indonesia*, 11(1), 32–40. <https://doi.org/10.29244/jhi.11.1.32-40>
- Armada, E., Azcón, R., López-Castillo, O. M., Calvo-Polanco, M., & Ruiz-Lozano, J. M. (2015). Autochthonous Arbuscular Mycorrhizal Fungi and *Bacillus thuringiensis* From A Degraded Mediterranean Area Can Be Used to Improve Physiological Traits and Performance of A Plant of Agronomic Interest Under Drought Conditions. *Plant Physiology and Biochemistry*, 90, 64–74. <https://doi.org/10.1016/j.plaphy.2015.03.004>
- Artanti, H., Joko, T., Somowiyarjo, S., & Suryanti, S. (2022). The Potential of *Rhizophagus intraradices* and *Trichoderma asperellum* to Induce Shallot Resistance Against Twisted Disease. *Jurnal Perlindungan Tanaman Indonesia*, 26(1), 57. <https://doi.org/10.22146/jpti.70673>
- Azizoglu, U. (2019). *Bacillus thuringiensis* as a Biofertilizer and Biostimulator: a Mini-Review of the Little-Known Plant Growth-Promoting Properties of Bt. *Current Microbiology*, 76(11), 1379–1385. <https://doi.org/10.1007/s00284-019-01705-9>
- Bandopadhyay, S. (2020). Application of Plant Growth Promoting *Bacillus thuringiensis* as Biofertilizer on *Abelmoschus esculentus* Plants Under Field Condition. *Journal of Pure and Applied Microbiology*, 14(2), 1287–1294. <https://doi.org/10.22207/JPAM.14.2.24>
- Bappeda DIY. (2023). *Aplikasi Dataku Daerah Istimewa Yogyakarta*. https://bappeda.jogjaprovo.go.id/dataku/pencarian_data/index
- Baumann, L., Okamoto, K., Unterman, B. M., & Lynch, M. J. (1984). Phenotypic Characterization of *Bacillus thuringiensis* and *Bacillus cereus*. *Jornal of Invertebrate Pathology*, 44, 329–341.
- Baxter, A. P., Van Der Westhuizen, G. C. A., & Eicker, A. (1983). Morphology and Taxonomy of South African Isolates of Colletotrichum. *S. Afr. J. Bot.*, 2(4), 259–289.
- BPS RI. (2023). *Statistik Hortikultura 2022* (R. Setiawati & T. H. Marpaung, Eds.). BPS RI.
- Brundrett, M. (2004). Diversity and Classification of Mycorrhizal Associations. *Biological Reviews of the Cambridge Philosophical Society*, 79(3), 473–495. <https://doi.org/10.1017/S1464793103006316>
- Candra, S. D., Ngatimun, & Suharsono, J. (2019). Aplikasi Bahan Silika Alami dan Frekuensi Pemberian Nano-Silika untuk Meningkatkan Kualitas Hasil dan Usahatani Padi. *Jurnal Ilmu-Ilmu Pertanian*, 13(2), 177–188.

- Chen, D., Wang, S., Yin, L., & Deng, X. (2018). How Does Silicon Mediate Plant Water Uptake and Loss Under Water Deficiency? *Frontiers in Plant Science*, 9(281). <https://doi.org/10.3389/fpls.2018.00281>
- Chitarra, W., Pagliarani, C., Maserti, B., Lumini, E., Siciliano, I., Cascone, P., Schubert, A., Gambino, G., Balestrini, R., & Guerrieri, E. (2016). Insights on The Impact of Arbuscular Mycorrhizal Symbiosis on Tomato Tolerance to Water Stress. *Plant Physiology*, 171(2), 1009–1023. <https://doi.org/10.1104/pp.16.00307>
- de la Fuente-Salcido, N. M., Casados-Vázquez, L. E., García-Pérez, A. P., Barboza-Pérez, U. E., Bideshi, D. K., Salcedo-Hernández, R., García-Almendarez, B. E., & Barboza-Corona, J. E. (2016). The Endochitinase ChiA Btt of *Bacillus thuringiensis* subsp. *tenebrionis* DSM-2803 and Its Potential Use to Control The Phytopathogen *Colletotrichum gloeosporioides*. *MicrobiologyOpen*, 5(5), 819–829. <https://doi.org/10.1002/mbo3.372>
- Deng, J., Kong, S., Wang, F., Liu, Y., Jiao, J., Lu, Y., Zhang, F., Wu, J., Wang, L., & Li, X. (2020). Identification of a New *Bacillus sonorensis* Strain KLBC GS-3 as a Biocontrol Agent for Postharvest Green Mould in Grapefruit. *Biological Control*, 151. <https://doi.org/10.1016/j.biocontrol.2020.104393>
- Dey, M., & Ghosh, S. (2022). Arbuscular Mycorrhizae in Plant Immunity and Crop Pathogen Control. *Rhizosphere*, 22. <https://doi.org/10.1016/j.rhisph.2022.100524>
- Dharmaputra, O. S., Listiyowati, S., & Nurwulansari, I. Z. (2019). Keragaman Cendawan Pascapanen pada Umbi Bawang Merah Varietas Bima Brebes. *Jurnal Fitopatologi Indonesia*, 14(5), 175. <https://doi.org/10.14692/jfi.14.5.175>
- Dowarah, B., Gill, S. S., & Agarwala, N. (2022). Arbuscular Mycorrhizal Fungi in Conferring Tolerance to Biotic Stresses in Plants. *Journal of Plant Growth Regulation*, 41(4), 1429–1444. <https://doi.org/10.1007/s00344-021-10392-5>
- Dutta, R., Jayalakshmi, K., Nadig, S. M., Manjunathagowda, D. C., Gurav, V. S., & Singh, M. (2022). Anthracnose of Onion (*Allium cepa* L.): A Twister Disease. *Pathogens*, 11(8). <https://doi.org/10.3390/pathogens11080884>
- Ebenebe, A. C. (1980). Onion Twister Disease Caused by *Glomerella cingulata* in Northern Nigeria. *Plant Disease*, 64, 1030–1032.
- Etesami, H., & Jeong, B. R. (2018). Silicon (Si): Review and Future Prospects on The Action Mechanisms in Alleviating Biotic and Abiotic Stresses in Plants. *Ecotoxicology and Environmental Safety*, 147, 881–896. <https://doi.org/10.1016/j.ecoenv.2017.09.063>
- Felix Alvarez, R. de C., Prado, R. de M., Felisberto, G., Fernandes Deus, A. C., & Lima de Oliveira, R. L. (2018). Effects of Soluble Silicate and Nanosilica Application on Rice Nutrition in an Oxisol. *Pedosphere*, 28(4), 597–606. [https://doi.org/10.1016/S1002-0160\(18\)60035-9](https://doi.org/10.1016/S1002-0160(18)60035-9)
- Fitriana, N., & Susandarini, R. (2019). Morphology and Taxonomic Relationships of Shallot (*Allium cepa* L. group aggregatum) Cultivars from Indonesia. *Biodiversitas*, 20(10), 2809–2814. <https://doi.org/10.13057/biodiv/d201005>
- Fitriani, M. L., Wiyono, S., & Sinaga, M. S. (2020). Potensi Kolonisasi Mikoriza Arbuskular dan Cendawan Endofit untuk Pengendalian Layu Fusarium pada

Bawang Merah. *Jurnal Fitopatologi Indonesia*, 15(6), 228–238.
<https://doi.org/10.14692/jfi.15.6.228-238>

- Fritsch, R. M., & Friesen, N. (2002). Evolution, Domestication and Taxonomy. In H. D. Rabinowitch & L. Currah (Eds.), *Allium Crop Science: Recent Advances* (pp. 5–27). CAB International. <https://www.researchgate.net/publication/237309729>
- Galván, G. A., Wietsma, W. A., Putrasemedja, S., Permadi, A. H., & Kik, & C. (1997). Screening for Resistance to Anthracnose (*Colletotrichum gloeosporioides* Penz.) in *Allium cepa* and Its Wild Relatives. In *Euphytica* (Vol. 95). Kluwer Academic Publishers.
- Genre, A., Lanfranco, L., Perotto, S., & Bonfante, P. (2020). Unique and Common Traits in Mycorrhizal Symbioses. In *Nature Reviews Microbiology* (Vol. 18, Issue 11, pp. 649–660). Nature Research. <https://doi.org/10.1038/s41579-020-0402-3>
- Goswami, D., Thakker, J. N., & Dhandhukia, P. C. (2016). Portraying Mechanics of Plant Growth Promoting Rhizobacteria (PGPR): A Review. *Cogent Food and Agriculture*, 2(1). <https://doi.org/10.1080/23311932.2015.1127500>
- Gow, N. A. R., Latge, J.-P., & Munro, C. A. (2017). The Fungal Cell Wall: Structure, Biosynthesis, and Function. *Microbiology Spectrum*, 5(3). <https://doi.org/10.1128/microbiolspec.funk-0035-2016>
- Guo, Q., Li, S., Lu, X., Li, B., Stummer, B., Dong, W., & Ma, P. (2012). PhoR Sequences as a Phylogenetic Marker to Differentiate The Species in The *Bacillus subtilis* Group. *Canadian Journal of Microbiology*, 58(11), 1295–1305. <https://doi.org/10.1139/w2012-106>
- Hadisutrisno, B. (1999). Peranan Faktor Lingkungan Terhadap Penyakit Antraknos Pada Bawang Merah. *Jurnal Perlindungan Tanaman Indonesia*, 5(1), 20–23.
- Harikumar, V. S., & Potty, V. P. (2009). Occurrence of Arum-and Paris-Morphological Types of Arbuscular Mycorrhizal Colonization in Sweet Potato. *Journal of Root Crops*, 35(1), 55–58. <https://www.researchgate.net/publication/228844759>
- Hartoyo. (2020). Potensi Bawang Merah Sebagai Tanaman Herbal untuk Kesehatan Masyarakat Desa Jemasih Kec. Ketanggungan Kab. Brebes. *Jurnal Ilmiah Indonesia*, 5(10), 1109–1120.
- Hekmawati, Poromarto, S. H., & Widono, S. (2020). Resistensi Beberapa Varietas Bawang Merah Terhadap *Colletotrichum gloeosporioides*. *Agrosains*, 20(2), 40–44.
- Hidayat, I. M., & Sulastrini, I. (2016). Screening for Tolerance to Anthracnose (*Colletotrichum gloeosporioides*) of Shallot (*Allium ascalonicum*) Genotypes. *Acta Horticulturae*, 1127, 89–95. <https://doi.org/10.17660/ActaHortic.2016.1127.16>
- Hu, X. F., Li, S. X., Wu, J. G., Wang, J. F., Fang, Q. Lou, & Chen, J. S. (2010). Transfer of *Bacillus mucilaginosus* and *Bacillus edaphicus* to The Genus *Paenibacillus* as *Paenibacillus mucilaginosus* comb. nov. and *Paenibacillus edaphicus* comb. nov. *International Journal of Systematic and Evolutionary Microbiology*, 60(1), 8–14. <https://doi.org/10.1099/ijs.0.008532-0>

- Janos, D. P. (1984). Methods For Vesicular-Arbuscular Mycorrhiza Research in The Lowland Wet Tropics. In E. Medina (Ed.), *Physiological Ecology of Plants of The Wet Tropics*. Dr W. Junk Publishers.
- Jayanti, R. M., & Joko, T. (2020). Plant Growth Promoting and Antagonistic Potential of Endophytic Bacteria Isolated from Melon in Indonesia. *Plant Pathology Journal*, 19(3), 200–210. <https://doi.org/10.3923/ppj.2020.200.210>
- Joko, T., Hirata, H., & Tsuyumu, S. (2007). A Sugar Transporter (MfsX) is Also Required by *Dickeya dadantii* 3937 For In Planta Fitness. *Journal of General Plant Pathology*, 73(4), 274–280. <https://doi.org/10.1007/s10327-007-0019-7>
- Jouzani, G. S., Valijanjan, E., & Sharafi, R. (2017). *Bacillus thuringiensis*: A Successful Insecticide with New Environmental Features and Tidings. *Applied Microbiology and Biotechnology*, 101(7), 2691–2711. <https://doi.org/10.1007/s00253-017-8175-y>
- Kharisun, Sisno, Budiono, M. N., Rokhminarsi, & Kurniasih, K. (2023). The Study of Silica (Si) and Salinity on the Growth and Yield of Shallot Plant (*Allium ascalonicum* L.) in an Entisol Soil. *Proceedings of the 2nd International Conference for Smart Agriculture, Food, and Environment (ICSAFE 2021)*, 18–31. https://doi.org/10.2991/978-94-6463-090-9_3
- Ko, K. S., Kim, J. W., Kim, J. M., Kim, W., Chung, S. I., Kim, I. J., & Kook, Y. H. (2004). Population Structure of The *Bacillus cereus* Group as Determined by Sequence Analysis of Six Housekeeping Genes and The plcR Gene. *Infection and Immunity*, 72(9), 5253–5261. <https://doi.org/10.1128/IAI.72.9.5253-5261.2004>
- Korlina, E., Sulastrini, I., & Waluyo, N. (2021). Response of *Trichoderma* sp and Shallot Varieties Towards Plant Growth and Disease Incidence. *IOP Conference Series: Earth and Environmental Science*, 752(1). <https://doi.org/10.1088/1755-1315/752/1/012016>
- La Duc, M. T., Satomi, M., Agata, N., & Venkateswaran, K. (2004). GyrB as A Phylogenetic Discriminator for Members of The *Bacillus anthracis-cereus-thuringiensis* Group. *Journal of Microbiological Methods*, 56(3), 383–394. <https://doi.org/10.1016/j.mimet.2003.11.004>
- Larrea-Murrell, J. A., Rojas-Badia, M. M., García-Soto, I., Romeu-Alvarez, B., Bacchetti, T., Gillis, A., Boltes-Espinola, A. K., Heydrich-Perez, M., Lugo-Moya, D., & Mahillon, J. (2018). Diversity and Enzymatic Potentialities of Bacillus sp. Strains Isolated from a Polluted Freshwater Ecosystem in Cuba. *World Journal of Microbiology and Biotechnology*, 34(2). <https://doi.org/10.1007/s11274-018-2411-1>
- Lestiyani, A., Wibowo, A., & Subandiyah, S. (2021). Pathogenicity and Detection of Phytohormone (Gibberellic Acid and Indole Acetic Acid) Produced by *Fusarium* spp. that Causes Twisted Disease in Shallot. *Jurnal Proteksi Tanaman*, 5(1), 24–33. <http://jpt.faperta.unand.ac.id/index.php/jpt>
- Liu, Y., Lai, Q., Dong, C., Sun, F., Wang, L., Li, G., & Shao, Z. (2013). Phylogenetic Diversity of The *Bacillus pumilus* Group and The Marine Ecotype Revealed by Multilocus Sequence Analysis. *PLoS ONE*, 8(11). <https://doi.org/10.1371/journal.pone.0080097>
- Liu, Y., Lai, Q., Du, J., & Shao, Z. (2016). *Bacillus zhangzhouensis* sp. nov. and *Bacillus australimaris* sp. nov. *International Journal of Systematic and*

Evolutionary Microbiology, 66(3), 1193–1199.
<https://doi.org/10.1099/ijsem.0.000856>

- Lopes, L. H. R., Boiteux, L. S., Rossato, M., Aguiar, F. M., Fonseca, M. E. N., Oliveira, V. R., & Reis, A. (2021). Diversity of *Colletotrichum* species Causing Onion Anthracnose in Brazil. *European Journal of Plant Pathology*, 159(2), 339–357. <https://doi.org/10.1007/s10658-020-02166-8>
- Luyckx, M., Hausman, J. F., Lutts, S., & Guerriero, G. (2017). Silicon and Plants: Current Knowledge and Technological Perspectives. *Frontiers in Plant Science*, 8. <https://doi.org/10.3389/fpls.2017.00411>
- Marlitasari, E., Sulistyowati, L., & Rizkyta, R. (2016). Hubungan Ketebalan Lapisan Epidermis Daun Terhadap Jamur *Alternaria porri* Penyebab Penyakit Bercak Ungu pada Empat Varietas Bawang Merah. *Jurnal HPT*, 4(1), 8–16.
- Mavrodi, D. V., Peever, T. L., Mavrodi, O. V., Parejko, J. A., Raaijmakers, J. M., Lemanceau, P., Mazurier, S., Heide, L., Blankenfeldt, W., Weller, D. M., & Thomashow, L. S. (2010). Diversity and Evolution of The Phenazine Biosynthesis Pathways. *Applied and Environmental Microbiology*, 76(3), 866–879. <https://doi.org/10.1128/AEM.02009-09>
- Milner, R. J. (1994). History of *Bacillus thuringiensis*. *Agriculture, Ecosystems and Environment*, 49, 9–13.
- Mishra, P. K., Mishra, S., Selvakumar, G., Bisht, J. K., Kundu, S., & Gupta, H. S. (2009). Coinoculation of *Bacillus thuringiensis*-KR1 with *Rhizobium leguminosarum* Enhances Plant Growth and Nodulation of Pea (*Pisum sativum* L.) and Lentil (*Lens culinaris* L.). *World Journal of Microbiology and Biotechnology*, 25(5), 753–761. <https://doi.org/10.1007/s11274-009-9963-z>
- Murtado, A., Mubarik, N. R., & Tjahjoleksono, A. (2020). Isolation and Characterization Endophytic Bacteria as Biological Control of Fungus *Colletotrichum* sp. on Onion Plants (*Allium cepa* L.). *IOP Conference Series: Earth and Environmental Science*, 457(1). <https://doi.org/10.1088/1755-1315/457/1/012043>
- Nadeem, S. M., Khan, M. Y., Waqas, M. R., Binyamin, R., Akhtar, S., & Zahir, Z. A. (2017). Arbuscular Mycorrhizas: An Overview. In *Arbuscular Mycorrhizas and Stress Tolerance of Plants* (pp. 1–24). Springer Singapore. https://doi.org/10.1007/978-981-10-4115-0_1
- Navitasari, L., Joko, T., Hari Murti, R., & Arwiyanto, T. (2020). Rhizobacterial Community Structure in Grafted Tomato Plants Infected by *Ralstonia solanacearum*. *Biodiversitas*, 21(10), 4888–4895. <https://doi.org/10.13057/biodiv/d211055>
- Öztopuz, Ö., Pekin, G., Park, R. D., & Eltem, R. (2018). Isolation and Evaluation of New Antagonist *Bacillus* Strains for the Control of Pathogenic and Mycotoxigenic Fungi of Fig Orchards. *Applied Biochemistry and Biotechnology*, 186(3), 692–711. <https://doi.org/10.1007/s12010-018-2764-9>
- Pamekas, T., Hartal, H., & Holiza, S. (2022). Induksi Pertumbuhan dan Ketahanan Tanaman Cabai Terhadap Penyakit Antraknosa dengan Aplikasi Cendawan Endofit. *Proceedings Series on Physical & Formal Sciences*, 4, 432–438. <https://doi.org/10.30595/pspfs.v4i.533>

- Panday, S. S., Alberto, R., & Labe, M. (2012). Ultrastructural Characterization of Infection and Colonization of *Colletotrichum gloeosporioides* in Onion. *Plant Pathology & Quarantine*, 2(2), 168–177. <https://doi.org/10.5943/ppq/2/2/10>
- Pareek, S., Sagar, N. A., Sharma, S., & Kumar, V. (2018). Onion (*Allium cepa* L.). In E. M. Yahia (Ed.), *Fruit and Vegetable Phytochemicals : Chemistry and Human Health: Vol. II* (2nd ed., pp. 58–116). John Wiley & Sons Ltd.
- Patil, S., Nargund, V. B., Hariprasad, K., Hegde, G., Lingaraju, S., & Benagi, V. I. (2018). Etiology of Twister Disease Complex in Onion. *International Journal of Current Microbiology and Applied Sciences*, 7(12), 3644–3657. <https://doi.org/10.20546/ijcmas.2018.712.413>
- Pozo, M. J., & Azcón-Aguilar, C. (2007). Unraveling Mycorrhiza-Induced Resistance. *Current Opinion in Plant Biology*, 10(4), 393–398. <https://doi.org/10.1016/j.pbi.2007.05.004>
- Priyadharsini, P., Muthukumar, T., & Pandey, R. R. (2012). Arbuscular Mycorrhizal and Dark Septate Fungal Associations in Shallot (*Allium cepa* L. var. *aggregatum*) Under Conventional Agriculture. *Acta Botanica Croatica*, 71(1), 159–175. <https://doi.org/10.2478/v10184-011-0058-1>
- Puteri, E. A., Nurmiaty, Y., & Agustiansyah. (2014). Pengaruh Aplikasi Fosfor dan Silika Terhadap Pertumbuhan Hasil Tanaman Kedelai (*Glycine max* [L.] Merrill.). *J. Agrotek Tropika*, 2(2), 241–245.
- Putri, F. M., Suedy, S. W. A., & Darmanti, S. (2017). Pengaruh Pupuk Nanosilika Terhadap Jumlah Stomata, Kandungan Klorofil dan Pertumbuhan Padi Hitam (*Oryza sativa* L. cv. *japonica*). *Buletin Anatomi Dan Fisiologi*, 2(1), 72–79.
- Rabinovitch, L., Vivoni, A. M., Machado, V., Knaak, N., Berlitz, D. L., Polanczyk, R. A., & Fiuza, L. M. (2017). *Bacillus thuringiensis* Characterization: Morphology, Physiology, Biochemistry, Pathotype, Cellular, and Molecular Aspects. In *Bacillus Thuringiensis and Lysinibacillus Sphaericus: Characterization and use in the Field of Biocontrol* (pp. 1–18). Springer International Publishing. https://doi.org/10.1007/978-3-319-56678-8_1
- Rabinowitch, H. D. (2021). Shallot (*Allium cepa* L. *aggregatum* Group) Breeding. In M. Al-Khayri & S. M. Jain (Eds.), *Advances in Plant Breeding Strategies: Vegetable Crops* (pp. 99–156). Springer Nature Switzerland.
- Raddadi, N., Cherif, A., Ouzari, H., Marzorati, M., Brusetti, L., Boudabous, A., & Daffonchio, D. (2007). *Bacillus thuringiensis* Beyond Insect Biocontrol: Plant Growth Promotion and Biosafety of Polyvalent Strains. *Annals of Microbiology*, 57(4), 481–494.
- Rahma, A. A., Suryanti, Somowiyarjo, S., & Joko, T. (2020). Induced Disease Resistance and Promotion of Shallot Growth by *Bacillus velezensis* B-27. *Pakistan Journal of Biological Sciences*, 23(9), 1113–1121. <https://doi.org/10.3923/pjbs.2020.1113.1121>
- Rahman, M. M., Rizalli Saidy, A., & Nisa, C. (2019). Aplikasi Mikoriza Arbuskula untuk Meningkatkan Serapan Fosfat, Pertumbuhan dan Produksi Tanaman Bawang Merah. *EnviroScienteeae*, 15(1), 59–70. <https://doi.org/10.20527/es.v15i1>

- Rasko, D. A., Altherr, M. R., Han, C. S., & Ravel, J. (2005). Genomics of the *Bacillus cereus* Group of Organisms. *FEMS Microbiology Reviews*, 29(2), 303–329. <https://doi.org/10.1016/j.femsre.2004.12.005>
- Raut, L. S., Rakh, R. R., & Hamde, V. S. (2021). In Vitro Biocontrol Scenarios of *Bacillus amyloliquefaciens* subsp. *Amyloliquefaciens* Strain rls19 in Response to *Alternaria macrospora*, An *Alternaria* Leaf Spot Phytopathogen of Bt Cotton. *Journal of Applied Biology and Biotechnology*, 9(1), 75–82. <https://doi.org/10.7324/JABB.2021.9110>
- Redecker, D., Schüßler, A., Stockinger, H., Stürmer, S. L., Morton, J. B., & Walker, C. (2013). An Evidence-Based Consensus for The Classification of Arbuscular Mycorrhizal Fungi (Glomeromycota). In *Mycorrhiza* (Vol. 23, Issue 7, pp. 515–531). <https://doi.org/10.1007/s00572-013-0486-y>
- Reecha, J., Thiruvudainambi, S., Mareeswari, P., Oviya, R., & Vellaikumar, S. (2022). Morphological Characterization of *Colletotrichum gloeosporioides* Causing Leaf Twister Blight Disease in *Allium cepa* (Onion). *The Pharma Innovation Journal*, 11(7), 26–30. www.thepharmajournal.com
- Safitri, Y. A., Hasanah, uswatun, Salamiah, Samharinto, & Pramudi, M. I. (2019). Distribution of Major Diseases of Shallot in South Kalimantan, Indonesia. *Asian Journal of Agriculture*, 3(02). <https://doi.org/10.13057/asianjagric/g030201>
- Saleh, S., Anshary, A., Made, U., Mahfudz, & Basir-Cyio, M. (2021). Application of Mycorrhizae and Beauveria in Organic Farming System Effectively Control Leafminers and Enhance Shallot Production. *Agrivita*, 43(1), 79–88. <https://doi.org/10.17503/agrivita.v1i1.2831>
- Sanjaya, A., Padmini, O. S., & Suardi. (2022). Peningkatan Hasil Tanaman Padi Melalui Pemberian Nano Silika dan Penggunaan Jumlah Bibit Per Lubang Tanam. *Agrivet*, 28(1), 18–26.
- Sari, M. P. (2016). *Mekanisme Jamur Mikoriza Arbuskular dalam Menekan Perkembangan Penyakit Bercak Ungu pada Bawang Merah*. Universitas Gadjah Mada.
- Sarianti, & Subandar, I. (2022). Insidensi dan Severitas Penyakit Antraknosa pada Tanaman Bawang Merah di Kampong Tanah Bara Kecamatan Gunung Aceh Singkil. *Jurnal Pertanian Agros*, 24(1).
- Satomi, M., La Duc, M. T., & Venkateswaran, K. (2006). *Bacillus safensis* sp.nov., Isolated from Spacecraft and Assembly-facility Surfaces. *International Journal of Systematic and Evolutionary Microbiology*, 56(8), 1735–1740. <https://doi.org/10.1099/ijs.0.64189-0>
- Setyawan, B., Berlian, I., & Prasetyo, N. E. (2016). Eksplorasi Bakteri Endofitik dan Potensinya dalam Penghambatan Jamur Akar Putih (*Rigidoporus micropus*). *Indonesian J. Nat. Rubb. Res*, 175–188.
- Shigyo, M., & Kik, C. (2008). Onion. In J. Prohens & F. Nuez (Eds.), *Vegetables II: Fabaceae, Liliaceae, Solanaceae, and Umbelliferae* (pp. 121–162). Springer Science.
- Shuab, R., Lone, R., Naidu, J., Sharma, V., Imtiyaz, S., & Koul, K. (2014). Benefits of Inoculation of Arbuscular Mycorrhizal Fungi on Growth and Development of

- Onion (*Allium cepa*) Plant. & Environ. Sci, 14(6), 474011.
<https://doi.org/10.5829/idosi.aejaes.2014.14.06.12347>
- Sieverding, E., Da Silva, G. A., Berndt, R., & Oehl, F. (2014). Rhizogloumus, A New Genus of The Glomeraceae. *Mycotaxon*, 129(2), 373–386.
<https://doi.org/10.5248/129.373>
- Simko, I., & Piepho, H. P. (2012). The Area Under The Disease Progress Stairs: Calculation, Advantage, and Application. *Phytopathology*, 102(4), 381–389.
<https://doi.org/10.1094/PHYTO-07-11-0216>
- Smith, S. E., & Read, D. J. (2008). *Mychorrizhal Symbiosis* (3rd ed.). Academic Press.
<https://doi.org/https://doi.org/10.1016/B978-0-12-370526-6.X5001-6>
- Spagnoletti, F. N., Carmona, M., Balestrasse, K., Chiocchio, V., Giacometti, R., & Lavado, R. S. (2021). The Arbuscular Mycorrhizal Fungus *Rhizopagus intraradices* Reduces The Root Rot Caused by *Fusarium pseudograminearum* in Wheat. *Rhizosphere*, 19. <https://doi.org/10.1016/j.rhisph.2021.100369>
- Spagnoletti, F. N., Cornero, M., Chiocchio, V., Lavado, R. S., & Roberts, I. N. (2020). Arbuscular Mycorrhiza Protects Soybean Plants Against *Macrophomina phaseolina* Even Under Nitrogen Fertilization. *European Journal of Plant Pathology*, 156(3), 839–849. <https://doi.org/10.1007/s10658-020-01934-w>
- Subbanna, A. R. N. S., Chandrashekar, C., Stanley, J., Mishra, K. K., Mishra, P. K., & Pattanayak, A. (2019). Bio-efficacy of Chitinolytic *Bacillus thuringiensis* Isolates Native to Northwestern Indian Himalayas and Their Synergistic Toxicity with Selected Insecticides. *Pesticide Biochemistry and Physiology*, 158, 166–174. <https://doi.org/10.1016/j.pestbp.2019.05.005>
- Sumarni, N., & Hidayat, A. (2005). *Budidaya Bawang Merah*. Balai Penelitian Tanaman Sayuran.
- Tran, C., Cock, I. E., Chen, X., & Feng, Y. (2022). Antimicrobial Bacillus: Metabolites and Their Mode of Action. *Antibiotics*, 11(1).
<https://doi.org/10.3390/antibiotics11010088>
- Vilas-Bôas, G. T., Peruca, A. P. S., & Arantes, O. M. N. (2007). Biology and Taxonomy of *Bacillus cereus*, *Bacillus anthracis*, and *Bacillus thuringiensis*. In *Canadian Journal of Microbiology* (Vol. 53, Issue 6, pp. 673–687).
<https://doi.org/10.1139/W07-029>
- Wang, L. T., Lee, F. L., Tai, C. J., & Kasai, H. (2007). Comparison of GyrB Gene Sequences, 16S rRNA Gene Sequences and DNA-DNA Hybridization in The *Bacillus subtilis* Group. *International Journal of Systematic and Evolutionary Microbiology*, 57(8), 1846–1850. <https://doi.org/10.1099/ijs.0.64685-0>
- Weir, B. S., Johnston, P. R., & Damm, U. (2012). The *Colletotrichum gloeosporioides* species complex. *Studies in Mycology*, 73, 115–180.
<https://doi.org/10.3114/sim0011>
- Widyaningsih, S., Utami, S. N. H., Joko, T., & Subandiyah, S. (2019). Plant Response and Huanglongbing Disease Development Against Heat Treatments on ‘Siam Purworejo’ (*Citrus nobilis* (Lour)) and ‘Nambangan’ (*C. maxima* (Burm.) Merr.) Under Field Condition. *Archives of Phytopathology and Plant Protection*, 52(3–4), 259–276. <https://doi.org/10.1080/03235408.2018.1544193>

- Wilson, M. K., Abergel, R. J., Raymond, K. N., Arceneaux, J. E. L., & Byers, B. R. (2006). Siderophores of *Bacillus anthracis*, *Bacillus cereus*, and *Bacillus thuringiensis*. *Biochemical and Biophysical Research Communications*, 348(1), 320–325. <https://doi.org/10.1016/j.bbrc.2006.07.055>
- Yamamoto, S., & Harayama, S. (1995). PCR Amplification and Direct Sequencing of GyrB Genes With Universal Primers and Their Application to The Detection and Taxonomic Analysis of *Pseudomonas putida* Strains. *Applied and Environmental Microbiology*, 61(3), 1104–1109. <https://doi.org/10.1128/aem.61.3.1104-1109.1995>
- Yang, G., Zhou, X., Zhou, S., Yang, D., Wang, Y., & Wang, D. (2013). *Bacillus thermotolerans* sp. nov., a Thermophilic Bacterium Capable of Reducing Humus. *International Journal of Systematic and Evolutionary Microbiology*, 63(PART10), 3672–3678. <https://doi.org/10.1099/ijs.0.048942-0>
- Yanti, Y., Hamid, H., & Nurbalis. (2021). Potensi Asam Salisilat *Bacillus* sp. untuk Menekan Perkembangan Penyakit Hawar Daun Bakteri Tanaman Bawang Merah. *Prosiding Seminar Nasional Sains Dan Teknologi Terapan*, 4(1), 513–523.
- Zainul, L. A. B., Soeparjono, S., & Setiawati, T. C. (2022). Aplikasi Pupuk Silika untuk Meningkatkan Ketahanan Tanaman Cabai Rawit (*Capsicum annum* L.) terhadap Stres Genangan. *Jurnal Agronomi Indonesia (Indonesian Journal of Agronomy)*, 50(2), 172–179. <https://doi.org/10.24831/jai.v50i2.40430>
- Zargar, S. M., Mahajan, R., Bhat, J. A., Nazir, M., & Deshmukh, R. (2019). Role of Silicon in Plant Stress Tolerance: Opportunities to Achieve A Sustainable Cropping System. *3 Biotech*, 9(3). <https://doi.org/10.1007/s13205-019-1613-z>
- Zhang, X., Cong, R., Guo, Q., Lu, X., Su, Z., Chen, X., Li, S., & Ma, P. (2023). Isolation, Identification and Evaluation of Biocontrol Bacteria against Cucumber Target Spot. *Chinese Journal of Biological Control*, 39(1), 194–203.