

## DAFTAR PUSTAKA

- Abri, Kuswinanti, T., Sengin, E. L., & Sjahrir, R. (2015). Isolasi Cendawan Rhizozfer Penghasil Hormone Indol Acetic Acid (IAA) Pada Padi Aromatik Tanatoraja. *Prosiding Seminar Nasional Mikrobiologi Kesehatan Dan Lingkungan*, 72–78.
- Ali, H., & Nadarajah, K. (2014). Evaluating the efficacy of *Trichoderma* spp and *Bacillus subtilis* as biocontrol agents against *Magnaporthe grisea* in rice. *Australian Journal of Crop Science*, 8(9), 1324–1335. <https://doi.org/10.3316/informit.675920848997070>
- Amaria, W., Harni, R., & Samsudin. (2015). Evaluasi Jamur Antagonis dalam Menghambat Pertumbuhan *Rigidoporus microporus* Penyebab Penyakit Jamur Akar Putih pada Tanaman Karet. *Jurnal Tanaman Industri Dan Penyegar*, 2(1), 51–60. <https://doi.org/10.21082/jtidp.v2n1.2015.p51-60>
- Andriastini, D. A., Ramona, Y., & Proborini, M. W. (2018). Hambatan in Vitro Cendawan Antagonis pada *Fusarium* sp., Penyebab Penyakit pada Tanaman Buah Naga (*Hylocereus undatus* (Haw.) Britton & Rose). *J. Metamorfosa*, 2(2), 224–233.
- Anhar, A., Advinda, L., Irdawati, & Syahputra, M. H. (2018). Germination Responses of Local Lowland Rice Variety Sirandah Kuning to Application of Some *Trichoderma* Strain. *Journal of Physics: Conference Series*, 1116(5). <https://doi.org/10.1088/1742-6596/1116/5/052006>
- Anitha, U. V., Mummigatti, & Jahagirdar, Sh. (2015). Influence of Seed Priming Agents on Yield, Yield Parameters and Purple Seed Stain Disease in Soybean. *Karnataka Journal of Agricultural Sciences*, 28(1), 20–23.
- Anwar, C. P., & Yudono, P. (2019). Invigorasi Osmoconditioning dengan Kalsium Klorida untuk Perbaikan Mutu Fisiologis Benih Padi Hitam Lokal (*Oryza sativa* L.). *Vegetalika*, 8(3), 166–176. <https://doi.org/10.22146/veg.42806>
- Arief, R., & Koes, F. (2010). Invigorasi Benih. *Prosiding Pekan Serealia Nasional*, 473–477.
- Ashraf, M. A., & Foolad, M. . (2005). PreSowing Seed Treatment—A Shotgun Approach to Improve Germination, Plant Growth, and Crop Yield Under Saline and Non-Saline Conditions. *Advances in Agronomy*, 88, 223–271. [https://doi.org/10.1016/S0065-2113\(05\)88006-X](https://doi.org/10.1016/S0065-2113(05)88006-X)
- Asra, R., Samarlina, A., & Silalahi, M. (2020). *Hormone Tumbuhan*. UKI Press.
- Atugala, D. M., & Deshappriya, N. (2015). Effect of endophytic fungi on plant growth and blast disease incidence of two traditional rice varieties. *Journal of the National Science Foundation of Sri Lanka*, 43(2), 173–187.

<https://doi.org/10.4038/jnsfsr.v43i2.7945>

- Awais, M., Pervez, A., Yaqub, A., & Shah, M. M. (2010). Production of antimicrobial metabolites by *Bacillus subtilis* immobilized in polyacrylamide gel. *Pakistan Journal of Zoology*, 42(3), 267–275.
- Barnett, H. L., & Hunter, B. B. (1972). *Illustrated Genera of Imperfect Fungi* (3 rd edito).
- Basu, A., Prasad, P., Das, S. N., Kalam, S., Sayyed, R. Z., Reddy, M. S., & Enshasy, H. El. (2021). Plant Growth Promoting Rhizobacteria (PGPR) as Green Bioinoculants: Recent Developments, Constraints, and Prospects. *Sustainability (Switzerland)*, 13(3), 1–20. <https://doi.org/10.3390/su13031140>
- Budiani, A., Susanti, I., Mawardi, S., Santoso, D. A., & Siswanto. (2004). Ekspresi  $\beta$ -1,3 Glukanase dan kitinase pada Tanaman Kopi Arabika (*Coffea arabica* L.) Tahan dan Rentan Karat Daun. *Menara Perkebunan*, 72(2), 57–70. <https://doi.org/10.22302/iribb.jur.mp.v72i2.122>
- Cahya, K. D., Kawuri, R., & Wijana, I. M. S. (2022). Potensi *Bacillus* sp. Sebagai Agen Antagonis Terhadap *Athelia rolfsii* Penyebab Busuk Pangkal Batang Kedelai (*Glycine max* L.). *Metamorfosa: Journal of Biological Sciences*, 9(2), 325. <https://doi.org/10.24843/metamorfosa.2022.v09.i02.p12>
- Cai, F., Yu, G., Wang, P., Wei, Z., Fu, L., Shen, Q., & Chen, W. (2013). Harzianolide, a novel plant growth regulator and systemic resistance elicitor from *Trichoderma harzianum*. *Plant Physiology and Biochemistry*, 73, 106–113. <https://doi.org/https://doi.org/10.1016/j.plaphy.2013.08.011>.
- Castanares, J. L., & Bouzo, C. A. (2017). Effect of Priming on Germination and Initial Growth of Melon Plants Under Salt Stress. *Revista FAVE - Ciencias Agrarias*, 16(2), 7–16.
- Chakraborti, S., Bera, K., Sadhukhan, S., & Dutta, P. (2022). Bio-priming pf seeds: Plant Stress Management and is Underlying Cellular, Biochemical and Molecular Mechanism. *Plant Stress*, 3. <https://doi.org/https://doi.org/10.1016/j.stress.2021.100052>
- Chitra, P., & Jijeesh, C. M. (2021). Biopriming of Seeds With Plant Growth Promoting Bacteria *Pseudomonas fluorescens* for better germination and seedling vigour of the East Indian sandalwood. *New Forests*, 52(5), 829–841. <https://doi.org/10.1007/s11056-020-09823-0>
- Dendang, B. (2015). Uji Antagonisme *Trichoderma* spp. Terhadap *Ganoderma* sp. Yang Menyerang Tanaman Sengon Secara In-Vitro. *Penelitian Kehutanan Wallacea*, 4(2), 147–156. <https://doi.org/10.18330/jwallacea.2015.vol4iss2pp147-156>
- Deshmukh, A. J., Jaiman, R. S., Bambharolia, R. P., & Patil, V. A. (2020). Seed Biopriming– A Review. *International Journal of Economic Plants*, 7(1), 038–043. <https://doi.org/10.23910/2/2020.0359>

- Devi, K. S., Devi, P. S., Sinha, B., Singh, L., Chanu, W. T., Maibam, N., & Devi, H. C. (2019). Effects of Bio Priming of Rice Seeds With Native *Trichoderma* spp. Isolated from Rice Rhizospheric Soil. *Journal of Pharmacognosy and Phytochemistry*, 8(4), 1968–1971.
- Dewi, E. (2018). Analisis Kebijakan Swasembada Beras dalam Upaya Peningkatan Ketahanan Pangan. *Jurnal Agribis - Fakultas Pertanian, Univ. Tulungagung*, 14, 29–42. <https://repository.unita.ac.id/items/show/502>.
- Dewi, I. M., Cholil, A., & Muhibuddin, A. (2013). The Relationship Between Leaf Tissue Characteristics and The Rate of Attack of Leaf Blast Disease (*Pyricularia oryzae* cav.) in Several Rice Genotypes (*Oryza sativa* l.). *Pests of Plant Diseases*, 1(2), 10–18. <https://jurnalhpt.ub.ac.id/index.php/jhpt/article/view/13>
- Dimkpa, C., Weinand, T., & Asch, F. (2009). Plant-rhizobacteria Interactions Alleviate Abiotic Stress Conditions. *Plant, Cell and Environment*, 32(12), 1682–1694. <https://doi.org/10.1111/j.1365-3040.2009.02028.x>
- Djaenuddin, N. (2016). Interaksi Bakteri Antagonis dengan Tanaman: Ketahanan Terinduksi pada Tanaman Jagung. *Iptek Tanaman Pangan*, 11(2), 143–148.
- Doni, F., Anizan, I., Che Radziah, C. M. Z., Wan Natasya, W. A., Abidah, A., & Wan Mohtar, W. Y. (2014). Enhanced Rice Seedling Growth by *Trichoderma* sp. FCR1. *The 13th Symposium of the Malaysian Society of Applied Biology 2014*, 7(12), 11–14.
- El-Mohammedy, R. S. R., & El-Baky, M. M. H. aBD. (2008). Evaluation of Different Types of Seed Treatment on Control of Root Rot Disease, Improvement Growth and Yield Quality of Pea Plant in Nobaria Province. *Research Journal of Agriculture and Biological Sciences*, 4(6), 611–622.
- Entesari, M., Sharifzadeh, F., Ahmadzadeh, M., & Farhangfar, M. (2013). Seed Biopriming with *Trichoderma* Species and *Pseudomonas fluorescens* on Growth Parameters, Enzymes Activity and Nutritional Status of Soybean. *Int. Journal Aplikasi Teknol. Pangan*, 4(4), 89–93.
- Fritze, D. (2004). Taxonomy of The Genus *Bacillus* and Related Genera: The Aerobic Endospore-Forming Bacteria. *Phytopathology*, 94(11), 1245–1248.
- Gupta, L., Vermani, M., Kaur Ahluwalia, S., & Vijayaraghavan, P. (2021). Molecular Virulence Determinants of *Magnaporthe oryzae*: Disease Pathogenesis and Recent Interventions for Disease Management in Rice Plant. *Mycology*, 12(3), 174–187. <https://doi.org/10.1080/21501203.2020.1868594>
- Gusnawaty, H., Taufik, M., & Herman. (2014). Efektifitas *Trichoderma Indigenus* Sulawesi Tenggara sebagai Biofungisida Terhadap *Colletotrichum* Sp. Secara In- Vitro. *Jurnal Agroteknos*, 4(1), 38–43. <https://doi.org/10.56189/ja.v4i1.204>
- Gusnawaty, H., Taufik, M., Triana, L., & Asniah, D. (2014). Karakterisasi Morfologis *Trichoderma* spp. Indigenus Sulawesi Tenggara. *Jurnal Agroteknos*,



4(2), 88–94.

- Haerani, N., Nurdin, N., & Sofyan. (2021). Uji Efektivitas Teknik Biopriming dengan Cendawan *Trichoderma* pada Perbaikan Viabilitas Benih dan Produksi Mentimun. *Jurnal Agrotan*, 7(1), 42–54.
- Hanum, C. (2008). *Teknik Budidaya Tanaman*. Departemen Pendidikan Indonesia.
- Harni, R., & Amaria, W. (2012). Potensi Bakteri Kitinolitik untuk Pengendalian Penyakit Busuk Pangkal Batang Lada (*Phytophthora capsici*). *Buletin Ristri*, 3(1), 7–12.
- Harsono, N. A., Bayfurqon, F. M., & Azizah, E. (2021). Pengaruh Periode Simpan Dan Konsentrasi Ekstrak Bawang Merah (*Allium cepa* L.) Terhadap Viabilitas Dan Vigor Benih Timun Apel (*Cucumis* SP.). *Jurnal Ilmiah Wahana Pendidikan*, 7(8), 350–362. <https://doi.org/10.5281/zenodo.5769611>
- Herlina, L., Pukan, K. K., & Mustikaningtyas, D. (2017). The endophytic bacteria producing IAA (Indole Acetic Acid) in *Arachis hypogaea*. *Cell Biology and Development*, 1(1), 31–35. <https://doi.org/10.13057/cellbioldev/v010106>
- Hersanti, Safitri, N., Djaya, L., & Sianipar, M. S. (2020). Kemampuan *Bacillus subtilis* dan *Trichoderma harzianum* dalam Campuran Serat Karbon dan Silika Nano untuk Meningkatkan Ketahanan Tanaman Padi Terhadap Penyakit Blas (*Pyricularia oryzae*). *Agrikultura*, 31(3), 182–192. <https://doi.org/10.24198/agrikultura.v31i3.29483>
- Houida, S., Yakkou, L., Kaya, L. O., Bilen, S., Fadil, M., Raouane, M., Harti, A. E., & Amghar, S. (2022). Biopriming of Maize Seeds with Plant Growth-Promoting Bacteria Isolated from The Earthworm *Aporrectodea molleri*: Effect on Seed Germination and Seedling Growth. *Letters in Applied Microbiology*, 75(1), 61–69. <https://doi.org/10.1111/lam.13693>
- Ilyas, S., Asie, K. V., Sutariati, G. A. K., & Sudarsono, S. (2015). Biomatrixconditioning or Biopriming with Biofungicides or Biological Agents Applied on Hot Pepper (*Capsicum annum* L.) Seeds Reduced Seedborne *Colletotrichum capsici* and Increased Seed Quality and Yield. *Acta Horticulturae*, 1105, 89–96. <https://doi.org/10.17660/ActaHortic.2015.1105.13>
- Istiqomah, & Kusumawati, D. E. (2018). Pemanfaatan *Bacillus subtilis* dan *Pseudomonas fluorescens* dalam pengendalian hayati *Ralstonia solanacearum* penyebab penyakit layu bakteri pada tomat. *Jurnal Agro*, 5(1), 1–12. <https://doi.org/10.15575/2305>
- Jamila, & Safridar, N. (2012). Pengaruh Dosis Urea, Arang Aktif dan Zeolit Terhadap Pertumbuhan dan Hasil Padi Sawah (*Oryza sativa* L.). *Jurnal Agrista*, 16(3), 153–162.
- Johnsen, H. R., & Krause, K. (2014). Cellulase activity Screening Using Pure Carboxymethylcellulose: Application to soluble Cellulolytic Samples and to Plant Tissue Prints. *International Journal of Molecular Sciences*, 15(1), 830–

838. <https://doi.org/10.3390/ijms15010830>

- Kaseng, E. S., Muhlishah, N., & Irawan, S. (2016). Uji Daya Hambat Terhadap Pertumbuhan Bakteri Uji *Staphylococcus aureus* dan *Escherichia coli* Ekstra Etanol Daun Mangrove *Rhizophora mucronata* dan Efek Antidiabetiknya Pada Mencit Yang Diinduksi Aloksan. *Jurnal Bionature*, 17(1), 1–6. <https://doi.org/10.35580/bionature.v17i1.2587>
- Keswani, C., Mishra, S., Sarma, B. K., Singh, S. P., & Singh, H. B. (2014). Unraveling the efficient applications of secondary metabolites of various *Trichoderma* spp. *Applied Microbiology and Biotechnology*, 98, 533–544. <https://doi.org/10.1007/s00253-013-5344-5>
- Khadim, M., Mihardjo, P. A., & Majid, A. (2011). Efektivitas Beberapa Isolat *Bacillus* spp untuk Mengendalikan Patogen Jamur *Rhizoctonia solani* pada Tanaman Kedelai. *Berkah Ilmiah Pertanian*, 10(2), 1–6. <http://repository.unej.ac.id/handle/123456789/69425>
- Kim, W.-I., Kunhikrishnan, A., Kim, J.-Y., Kim, H.-S., Yoo, J.-H., Cho, N., & Hong, J.-H. (2015). *Current Mitigation Techniques for Arsenic and Cadmium Contaminated Paddy Soils and Rice Grains in Korea*. <https://api.semanticscholar.org/CorpusID:108286626>
- Korsten, L., & De Jager, E. S. (1995). Mode of action of *Bacillus subtilis* for control Avocado Postharvest Pathogens. *SAAAGA Yearbook*, 18, 124–130.
- Kurnia, T. D., Pudjihartati, E., & Hasan, L. T. (2016). Bio-Priming Benih Kedelai (*Glycine Max* (L.) Merrill) untuk Meningkatkan Mutu Perkecambah. *Jurnal Biota*, 1(2), 62–67. <https://doi.org/10.24002/biota.v1i2.992>
- Liu, F., Xing, S., Ma, H., Du, Z., & Ma, B. (2013). Cytokinin-Producing, Plant Growth Promoting Rhizobacteria That Confer Resistance to Drought Stress in *Platycladus Orientalis* Container Seedlings. *Appl Microbiol Biotechnol*, 97(20), 55–64. <https://doi.org/10.1007/s00253-013-5193-2>
- Mahmood, A., & Kataoka, R. (2018). Potential of Biopriming in Enhancing Crop Productivity and Stress Tolerance. *Advances in Seed Priming*, May, 1–307. <https://doi.org/10.1007/978-981-13-0032-5>
- Makarim, A. K., & Suhartatik, E. (2009). Morfologi dan Fisiologi Tanaman Padi. In *Balai Besar Penelitian Tanaman Padi*.
- Makhaye, G., Aremu, A. O., Gerrano, A. S., Tesfay, S., Du Plooy, C. P., & Amoo, S. O. (2021). Biopriming With Seaweed Extract and Microbial-Based Commercial Biostimulants Influences Seed Germination of Five *Abelmoschus esculentus* Genotypes. *Plants*, 10(7). <https://doi.org/10.3390/plants10071327>
- Marfuah, C., & Majid, F. A. (2018). Uji Kemampuan Beberapa Jenis Natural Plant Growth Promoting Rhizobacteria (PGPR) Terhadap Pertumbuhan Dan Hasil Tanaman Kangkung di Kecamatan Wanasaba Kabupaten Lombok Timur. In *Seminar Nasional* (pp. 185–192).

- Marianah, L. (2013). *Analisa Pemberian Trichoderma spp. Terhadap Pertumbuhan Kedelai*. Balai Pelatihan Pertanian Jambi.
- Mariani, Adriani, A., & Wahditiya. (2021). Pengaruh Perlakuan Matricconditioning terhadap Viabilitas dan Vigor Benih Kedelai (*Glycine Max L. Merrill*). *Jurnal Agrotan*, 7(1), 55–67.
- Meika, Asrul, & Rosmini. (2023). Uji Antagonis *Trichoderma Sp.* dan Bakteri *Bacillus Sp.* DB12 Terhadap *Alternaria porri* Penyebab Bercak Ungu Pada Bawang *Wakegi* (*Allium x wakegi* Araki) Secara In Vitro. *E-Journal Agrotekbis*, 11(3), 573–580. <https://doi.org/10.22487/agrotekbis.v11i3.1728>
- Muchtar, S. D., Widajati, E., & Giyanto. (2014). Pelapisan Benih Menggunakan Bakteri Probiotik untuk Mempertahankan Viabilitas Benih Jagung Manis (*Zea mays saccharata* Sturt.) selama Penyimpanan. *Bul. Agrohorti*, 1(4), 26–33. <https://doi.org/10.29244/agrob.1.4.26-33>
- Mudi, L., Bahrin, A., & Sutariati, G. A. K. (2019). Bio-Priming Benih Menggunakan Campuran Rizobakter Indigenous untuk meningkatkan Kualitas Fisiologis Benih Kedelai (*Glycine max L. Merril*). *Berkala Penelitian Agronomi*, 5(2), 1. <https://doi.org/10.33772/bpa.v6i1.7508>
- Mudi, L., Sutariati, G. A. K., Hidayat, N., Faradilla, F., Rusmini, R., & Winarni, B. (2022). Biopriming Benih dalam Meningkatkan Pertumbuhan dan Hasil Tanaman Kacang Tanah (*Arachis hypogaeae L.*). *Agrovigor: Jurnal Agroekoteknologi*, 15(2), 140–146. <https://doi.org/10.21107/agrovigor.v15i2.14664>
- Mugnisjah, W. ., & Setiawan, A. (2004). *Produksi Benih*. Bumi Aksara.
- Muharni, & Widjajanti, H. (2011). Skrining Bakteri Kitinolitik Antagonis Terhadap Pertumbuhan Jamur Akar Putih (*Rigidoporus lignosus*) dari Rizosfir Tanaman Karet. *Jurnal Penelitian Sains*, 14(1), 51–56. <https://doi.org/10.56064/jps.v14i1.128>
- Muliani, Y., Adviany, I., & Sangga, A. M. A. (2022). Aplikasi *Trichoderma harzianum* Rifai. terhadap *Xanthomonas axonopodis* pv. *allii* pada Tanaman Bawang Daun (*Allium fistulosum L.*). *Agroscript: Journal of Applied Agricultural Sciences*, 4(2), 83–93. <https://doi.org/10.36423/agroscript.v4i2.1116>
- Nawangsih, A. A., & Wardani, F. F. (2014). Interaksi antara Bakteri Endofit dan Bakteri Perakaran Pemacu Pertumbuhan Tanaman dalam Menekan Penyakit Layu Bakteri pada Tomat. *Jurnal Fitopatologi Indonesia*, 10(1), 145–152. <https://doi.org/10.14692/jfi.10.5.145>
- Norsalis, E. (2011). Padi Gogo dan Sawah. *Jurnal Online Agroekoteknologi*, 1(2), 14.
- Nurdin, G. M., Mubarik, N. R., & Sudirman, L. I. (2016). Selection of chitinolytic bacteria as biological control of *Colletotrichum capsici*. *Malaysian Journal of*



- Microbiology*, 12(1), 35–42. <https://doi.org/10.21161/mjm.74515>
- Nurhafidah, Rahmat, A., Karre, A., & Juraeje, H. H. (2021). Uji Daya Kecambah Berbagai Jenis Varietas Jagung (*Zea Mays*) dengan Menggunakan Metode yang Berbeda. *Agroplantae Agroplantae*, 10(1), 30–39.
- Nurnayetti, & Atman. (2013). Keunggulan Kompetitif Padi Sawah Varietas Lokal di Sumatera Barat. *Jurnal Pengkajian Dan Pengembangan Teknologi Pertanian*, 16(2), 102–110. <https://doi.org/10.21082/jpntp.v16n2.2013.p%p>
- Prasannath, K. (2017). Plant Defense-Related Enzymes Against Pathogens: A Review. *Agriear Journal of Agricultural Sciences*, 11(1), 38. <https://doi.org/10.4038/agriear.v11i1.33>
- Primilestari, S., Salvia, E., & Perdani, A. Y. (2019). Peningkatan Mutu Fisiologis Benih Padi Lokal Jambi melalui Invigorasi. *Agrosaintek: Jurnal Ilmu Dan Teknologi Pertanian*, 3(2), 84–90. <https://doi.org/10.33019/agrosaintek.v3i2.74>
- Putri, R. E. (2020). Respon Perkecambahan Benih Padi GOGO (*Oryza sativa L. var. 75*) terhadap Pemberian Isolat *Trichoderma spp.* Universitas Negeri Padang.
- Rahmad, D., Nurmiaty, & Ridwan, A. (2023). Pengaruh Konsentrasi Biopriming dengan *Trichoderma aarzianum* terhadap Viabilitas dan Vigor Benih Padi. *Jurnal Agroplantae*, 12(1), 82–91. <https://doi.org/https://doi.org/10.51978/agro.v12i1.533>
- Reddy, P. R., & Raju, N. (2012). Gel-Electrophoresis and Its Applications. *Gel Electrophoresis - Principles and Basics*. <https://doi.org/10.5772/38479>
- Rehman, B., Hassan, T. U., & Bano, A. (2019). Potential of Indole-3-Acetic Acid-Producing Rhizobacteria to Resist Pb Toxicity In Polluted Soil. *Soil and Sediment Contamination*, 28(1), 101–121. <https://doi.org/10.1080/15320383.2018.1539947>
- Rizal, S. (2017). Uji Antagonis *Gliocladium Sp* Dalam Menghambat Pertumbuhan Jamur Penyebab Penyakit Busuk Antraknosa (*Colletotrichum capsici*). *Sainmatika*, 14(2), 100–106. <https://doi.org/10.31851/sainmatika.v14i2.1419>
- Rouhi, H. R., Surki, A. A., Sharif-Zadeh, F., Afshari, R. T., Aboutalebian, M. A., & Ahmadvand, G. (2011). Study of Different Priming Treatments on Germination Traits of Soybean Seed Lots. *Notulae Scientia Biologicae*, 3(1), 101–108. <https://doi.org/10.15835/nsb315462>
- Sadhu, S., Ghosh, P. K., Aditya, G., & Maiti, T. K. (2014). Optimization and Strain Improvement By Mutation for Enhanced Cellulase Production by *Bacillus sp.* (MTCC10046) isolated from cow dung. *Journal of King Saud University - Science*, 26(4), 323–332. <https://doi.org/10.1016/j.jksus.2014.06.001>
- Sadjad, S., Murniati, E., & Ilyas, S. (1999). *Parameter Pengujian Vigor Benih dari Komparatif ke Simulatif*. Grasindo.
- Saraswati, P. W., Nocianitri, K. A., & Arihantana, N. M. I. H. (2021). Pola

- Pertumbuhan *Lactobacillus* sp. F213 Selama Fermentasi Pada Sari Buah Terung Belanda (*Solanum betaceum* Cav.). *Jurnal Ilmu Dan Teknologi Pangan (ITEPA)*, 10(4), 621. <https://doi.org/10.24843/itepa.2021.v10.i04.p08>
- Sreedevi, B., Charitha Devi, M., & Saigopal, D. V. R. (2011). Induction of Defense Enzymes in *Trichoderma harzianum* Treated Groundnut Plants Against *Macrophomina phaseolina*. *Journal Of Biological Control*, 25(1), 33–39.
- Sucipto, I., Munif, A., Suryadi, Y., & Tondok, E. T. (2015). Eksplorasi Cendawan Endofit Asal Padi Sawah sebagai Agens Pengendali Penyakit Blas pada Padi Sawah. *Jurnal Fitopatologi Indonesia*, 11(6), 211–218. <https://doi.org/10.14692/jfi.11.6.211>
- Sudir, Nasution, A., Santoso, & Nuryanto, B. (2014). Penyakit Blas *Pyricularia grisea* pada Tanaman Padi dan Strategi Pengendaliannya. *Iptek Tanaman Pangan*, 9(2), 85–96. <http://www.peipfi-komdasulsel.org/wp-content/uploads/2011/06/37.-PENYAKIT-BLAS-Pyricularia-grisea-Johanis-Tandiabang.pdf>
- Sukmawati, S., & Hardianti, F. (2018). Analisis Total Plate Count (TPC) Mikroba pada Ikan Asin Kakap di Kota Sorong Papua Barat. *Jurnal Biodjati*, 3(1), 72. <https://doi.org/10.15575/biodjati.v3i1.2368>
- Sumardi, & Lengkana, D. (2009). Isolasi Bacillus Penghasil Protease Dari Saluran Pencernaan Ayam Kampung. *Seminar Hasil Penelitian Dan Pengabdian Kepada Masyarakat, UNILA*, 165–171. <http://repository.lppm.unila.ac.id/id/eprint/7594>
- Suriani, & Muis, A. (2016). Prospek *Bacillus subtilis* sebagai Agen Pengendali Hayati Patogen Tular Tanah pada Tanaman Jagung. *Jurnal Penelitian Dan Pengembangan Pertanian*, 35(1), 37–45. <https://doi.org/10.21082/jp3.v35n1.2016.p37-45>
- Sutariati, G. A. K., Safuan, L. O., Khaeruni, A., & Handayani, F. (2014). Uji Efektivitas Teknik Biopriming dan Sumber Benih Terhadap Viabilitas dan Vigor Bibit Kakao. *Agriplus*, 24(02), 111–122.
- Sutariati, G. A. K., Zul'aiza, Darsan, S., Kasra, L. M. A., Wangadi, S., & Mudi, L. (2014). Invigorasi Benih Padi Gogo Lokal untuk Meningkatkan Vigor dan Mengatasi Permasalahan Dormansi Fisiologis Pascapanen. *Jurnal Agroteknos*, 4(1), 10–17.
- Sutariati, G., & Wahab, A. (2012). Karakter Fisiologis dan Kemangkusan Rizobakteri Indigenus Sulawesi Tenggara sebagai Pemacu Pertumbuhan Tanaman Cabai. *Jurnal Hortikultura*, 22(1), 57–64. <https://doi.org/10.21082/jhort.v22n1.2012.p57-64>
- Swain, H., Adak, T., Mukherjee, A. K., Mukharjee, P. K., Bhattacharrya, P., & Behera, S. (2018). Novel *Trichoderma* Strain. Isolates from Tree Barks as Potential Biocontrol Agents and Biofertilizers For Direct Seeded Rice.



*Microbioal, Res*, 201, 83–90. <https://doi.org/10.1016/j.micres.2018.05.15>

- Syahnen, & Darwis, H. S. (2015). *Manfaat, Cara Perbanyakkan, Aplikasi Dan Evaluasi Penggunaan Jamur Trichoderma*.
- Syarifuddin, A., Wijayatri, R., Kurniawan, I. F., & Agusta, H. F. (2022). Penentuan Kurva Pertumbuhan dan Aktivitas Antibakteri dari Isolat Ekstrak Etil Asetat Bakteri (Te.325) terhadap *Staphylococcus aureus* dan *Escherichia coli*. *Jurnal Ilmu Kefarmasian Indonesia*, 20(2), 252. <https://doi.org/10.35814/jifi.v20i2.1079>
- Taghfir, D. B., Anwar, S., & Kristanto, B. A. (2018). Kualitas Benih dan Pertumbuhan Bibit Cabai (*Capsicum frutescens* L.) pada Perlakuan Suhu dan Wadah Penyimpanan Yang Berbeda. *Journal of Agro Complex*, 2(2), 137–147. <https://doi.org/10.14710/joac.2.2.137-147>
- Thakuria, D., Talukdar, N. C., Goswami, C., Hazarika, S., Boro, R. C., & Khan, M. R. (2004). Characterization and Screening of Bacteria from Rhizosphere of Rice Grown in Acidic Soils of Assam. *Current Science*, 978–985. <http://www.jstor.org/stable/24109284>
- Tjitrosoepomo, G. (2004). Taksonomi Tumbuhan (Spermatophyte). *Eudicots*.
- Triasih, U., Abadi, A. L., Muhibbudin, A., & Widyaningsih, S. (2022). Uji Beberapa Jamur Antagonis Terhadap *Colletotrichum gloeosporioides* Penyebab Penyakit Busuk Buah Apel Manalagi (*Malus sylvestris*) Secara In Vitro. *Agropross : National Conference Proceedings of Agriculture*, 389–397. <https://doi.org/10.25047/agropross.2022.309>
- Trigiano, R. N., Windham, M. T., & Windham, A. S. (2008). *Plant pathology: Concepts and laboratory exercises* (Second Edi). CRC Press.
- Vinale, F., Sivasithamparam, K., Ghisalberti, E. L., Marra, R., Woo, S. L., & Lorito, M. (2008). Trichoderma Plant Pathogen Interactions. *Soil Biology and Biochemistry*, 40(1), 1–10. <https://doi.org/10.1016/j.soilbio.2007.07.002>
- Wakjira, K., & Negash, L. (2013). Germination Responses of *Croton macrostachyus* (Euphorbiaceae) to Various Physico-Chemical Pretreatment Conditions. *South African Journal of Botany*, 87, 76–83. <https://doi.org/10.1016/j.sajb.2013.03.012>
- Widawati, S., & Suliasih. (2018). The Effect of Plant Growth Promoting Rhizobacteria (PGPR) on Germination and Seedling Growth of *Sorghum bicolor* L. Moench. *IOP Conference Series: Earth and Environmental Science*, 166(1), 1–10. <https://doi.org/10.1088/1755-1315/166/1/012022>
- Wijaya, A. K., Surahman, M., Qadir, A., & Giyanto, G. (2019). Intervensi Pemupukan dan Mikroba terhadap Pertumbuhan, Produksi, dan Mutu Benih Padi IPB 3S di Lahan Rawa Lebak. *Jurnal Penelitian Pertanian Tanaman Pangan*, 3(3), 117.

- Willey, J., Sherwood, L., & CJ, W. (2011). *Prescott's Microbiology 8th Ed.*
- Yulianto. (2017). Pengendalian Penyakit Blas Secara Terpadu pada Tanaman Padi. *Iptek Tanaman Pangan*, 12(1), 25–34.
- Zani, R. Z., & Anhar, A. (2021). Pengaruh *Trichoderma* spp. Terhadap Tinggi Perkecambahan Benih Padi Sawah (*Oryza sativa* L. var. sirandah batuampa). *Biogenerasi*, 6(1). <https://doi.org/10.30605/biogenerasi.v6i1.446>
- Zen, S., Bahar, H., Dasmal, Taufik, & Maizir. (2000). *Pengkajian Varietas/Galur Padi Sawah Spesifik Selera Konsumen Sumatera Barat.*
- Zhang, N., Luo, J., Rossman, A. Y., Aoki, T., Chuma, I., Crous, P. W., Dean, R., De Vries, R. P., Donofrio, N., Hyde, K. D., Lebrun, M. H., Talbot, N. J., Tharreau, D., Tosa, Y., Valent, B., Wang, Z., & Xu, J. R. (2016). Generic names in Magnaporthales. *IMA Fungus*, 7(1), 155–159. <https://doi.org/10.5598/imafungus.2016.07.01.09>
- 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. <https://doi.org/10.2298/ABS1003611Z>

