

DAFTAR PUSTAKA

- Annisa, T. F., Yanti, Y., & Nurbailis. (2024). Eksplorasi Aktinobakteria Indigenus Untuk Pengendalian Penyakit Busuk Tongkol Oleh *Fusarium vertillioides* Pada Tanaman Jagung. *Jurnal Agro*, 11(2), 178-190.
- Amaliatussolihah, W., Listiana, B. E., & Anugrahwati, D. R. (2023). Keragaan Bawang Merah (*Allium ascalonicum* L.) Varietas Lokananta Hasil Induksi Poliploid dengan Kolkisin. *Jurnal Ilmiah Mahasiswa Agrokomplek*, 2(2), 210-221.
- Arriani, I. F., Aini, L. Q., & Kusuma, R. R. (2019). Pemanfaatan Bakteri Anatagonis Lumpur Sidoarjo Untuk Menekan *Sclerotium rolfsii* Sacc. Penyebab Penyakit Rebah Semai Pada Tanaman Kedelai. *Journal Viabel Pertanian*, 13(1), 11–20.
- Asrul, (2019). Virulensi Beberapa Isolat *Pantoea ananatis* Penyebab Penyakit Hawar Daun Bakteri (Bacterial Leaf Blight) Pada Varietas Bawang Merah. *Jurnal Agromix: Universitas Tadulako*. Kota Palu. 11(02): 136-150.
- Asrul, A., & Umrah, U. (2019). Host Range *Pantoea ananatis* The Causal Agent of Bacterial Leaf Blight on *Allium* spp. *Agroland the Agricultural Sciences Journal (E-Journal)*, 6(1), 27-33
- Astuti, L. T. W., Daryanto, A., Syaukat, Y., & Daryanto, H. K. (2019). Analisis Resiko Produksi Usahatani Bawang Merah pada Musim Kering dan Musim Hujan di Kabupaten Brebes. *Jurnal Ekonomi Pertanian dan Agribisnis*, 3(4), 840–852.
- Aveling, T.A.S. & Snyman, H.G. (1993). Infection Studies of *Stemphylium vesicarium* on Onion Leaves. *Mycology Research*, 97, 984-988.
- Barka, E. A., Vatsa, P., Sanchez, L., Gaveau-Vaillant, N., Jacquard, C., Meier-Kolthoff, J. P., Klenk, H.-P., Clément, C., Ouhdouch, Y., & van Wezel, G. P. (2016). Taxonomy, Physiology, and Natural Products of Actinobacteria. *Microbiology and Molecular Biology Reviews*, 80(4), 1–21.
- Badan Pusat Statistik (BPS). (2025). Luas Panen, Produksi Tanaman Sayuran. Jakarta: Badan Pusat Statistik.
- BBSKP (Balai Besar Uji Standar Karantina Pertanian). (2022). Laporan Tahunan Balai Besar Uji Standar Karantina Pertanian. Badan Karantina Pertanian.
- Bergeijk, D. A. Van, Terlouw, B. R., Medema, M. H., & Wezel, G. P. Van. (2020). Ecology and Genomics of Actinobacteria: New Concepts for Natural Product Discovery. *Nature Reviews Microbiology*, 18, 546–558.
- Boukhatem, Z. F., Merabet, C., & Tsaki, H. (2022). Plant Growth Promoting Actinobacteria, the Most Promising Candidates as Bioinoculants. *Frontiers in Agronomy*, 4, 1–19.
- Budi, M. B. S., Giyanto, & Tondok. (2022). Isolation of actinomycetes from peatland to suppress the growth of *Ganoderma boninense* the causal agent of basal stem rot disease in oil palm. *Biodiversitas*, 23(11), 5914-5922.

- Chandel, R., Deeba K., Shrawan S., Amrender K., Rumit P., Priyanka V., Masochon Z., & Anil K. (2022). Screening of Short-day Onion For Resitance to Stemphylium. *Sec. PLant abiotic stress*, (13).
- Chu, W.H. 2006. Optimization of extracellular alkaline protease production from species of Bacillus. *J Ind Microbiol Biotechnol*. 34:241-245.
- Doolotkeldieva, T., Bobusheva, S., & Konurbaeva, M. (2015). Effects of *Streptomyces* Biofertilizer to Soil Fertility and Rhizosphere's Functional Biodiversity of Agricultural Plants. *Advances in Microbiology*. 5(07):555.
- Faatih, M. (2012). Dinamika Komunitas Aktinobakteria Selama Proses Pengomposan the Dynamics of Actinobacteria Community During Composting. *Jurnal Widyariset*, 15(3), 611–618.
- Fadil, M., Yanti, Y., & Khairul, U. (2023). Seleksi Aktinobakteria Indigenous untuk Pengendalian Penyakit Hawar Daun Bakteri (*Xanthomonas oryzae* pv. *oryzae*) Serta Peningkatan Pertumbuhan Padi. *Agrohita*, 8(1), 93–105.
- Fathurahman, A. T. (2019). Actinobacteria: Sumber Biokatalis Baru yang Potensial. *BioTrends*, 10(1), 28–35.
- Fatmawati U, Meryandini A, Nawangsih AA, Wahyudi AT. 2019. Screening and characterization of actinomycetes isolated from soybean rhizosphere for promoting plant growth. *Biodiversitas*. 20 (10):2970-2977
- Frank Hay., Sara S., Bruce D.G., Mary R.M., Daniel H., Christy H., Sandeep S., & Sarah P. (2021). Stemphylium Leaf Blight: A Re-Emerging Threat to Onion Production in Eastern North in American. *Plant Dis*, 105(12):3780-3794.
- Gedefaw, Y., Gezahegn, A., Fekadu, A. & Mehari, Z. (2019) First Report of *Stemphylium vesicarium* Causing Onion Stemphylium Leaf Blight in Ethiopia. *Agricultural Sciences*, 10, 1104-1112.
- Hahuly, M. V., Christanti S., Arif W., Siti S., & Stephen H. (2018). Identification of Purple Blotch Pathogen of Shallot by PCR using specific primer for Alternaria genus. *Archives of Phytopathology and Plant Protection*.
- Handayani, H. A. (2024). *Penapisan Aktinobakteria Indigenous Dari Bagian Daun Bawang Merah (Allium ascalonicum L.) Untuk Penekanan Penyakit Hawar Daun Stemphylium dan Peningkatan Pertumbuhan Tanaman*. Unand (Andalas University).
- Harahap, A.S., Luta, D.A. & Br, S.S.M. (2022). Karakteristik Agronomi Beberapa Varietas Bawang. *Jurnal Ilmu Pertanian*, 6 (1), pp. 287–296.
- Hariprasad P, Divakara S, Niranjana S. 2015. Isolation and characterization of chitinolytic rhizobacteria for the management of *Fusarium* wilt in tomato. *Crop Prot* 30 (12): 1606-1612.
- Harsonowati, W., Astuti, R. I., & Wahyudi, A. T. (2017). Leaf Blast Disease Reduction by Rice-Phyllosphere Actinomycetes Producing Bioactive Compounds. *Journal of General Plant Pathology*, 83, 98-108.

- Hayat, S., Ashraf, A., Aslam, B., Asif, R., Muzammil, S., Zahoor, M. A., Waseem, M., Malik, I. R., Khurshid, M., Afzal, M., Saqalein, M., Siddique, M. H., Muzammil, A., & Sabir, S. (2020). *Actinobacteria: Potential Candidate as Plant Growth Promoters*. Intech Open.
- Heng, J. L. S., Shah, U. K. M., & Hamzah, H. (2011). Isolation, Characterization and Identification of Potential Actinobacteria with Antifungal Activities Towards Chilli Anthracnose. *African Journal of Biotechnology*, 10(32), 5979–5987.
- Heydari, A & Pessarakli, M. (2010). Tinjauan pengendalian hayati patogen jamur pada tanaman menggunakan antagonis mikroba. *J Biol Sci* 10(4):273–290.
- Hoepting, C. (2016). Managing Stemphylium leaf blight. *Onion World* 32: 6–10.
- Synergistic Relationship Between Alternative Pore and *Stemphylium vesicarium*. *Journal of Diseases and Plant Protection* 124:195–200.
- Hu, D., Sun, C., Jin, T., Fan, G., Mok, K. M., Li, K., & Lee, S. M. Y. (2020). Exploring the Potential of Antibiotic Production From Rare Actinobacteria by Whole-Genome Sequencing and Guided MS/MS Analysis. *Frontiers in Microbiology*, 11(July), 1–12.
- Hussein, M.A.M., M.H.A. Hassan, A.D.A.Allam & K.A.M. Abo-Elyousr. (2007) Management of Stemphylium Blight of Onion by using Biological Agents and Resistance Inducers. *Egyp. J phytopatho*, 35(1):49-60
- Ilyas, R. S. (2023). *Eksplorasi Aktinobakteria Indigenus Untuk Pengendalian Penyakit Hawar Daun Bakteri (Pantoea ananatis) dan Peningkatan Produksi Bawang Merah*. Unand (Andalas University).
- Intra, B., Mungsuntisuk, I., Nihira, T., Igarashi, Y., & Panbangred, W. (2011). Identification of Actinomycetes from Plant Rhizospheric Soils with Inhibitory Activity Against *Colletotrichum* spp., the Causative Agent of Anthracnose Disease. *BMC Research Notes*, 4(98), 1–9.
- Jeffrey, L. S. H. (2008). Isolation, Characterization and Identification of Actinomycetes from Agriculture Soils at Semongok, Sarawak. *African Journal of Biotechnology*, 7(20), 3700–3705
- Kawasaki, Yukie., Nischwitz C., Michelle M. G., Justin J., Jason D. B., & J.Y.T. (2016). Production and Application of Syringomycin E as an Organic Fungicide Seed Protectant against Pythium Damping-off. *Journal of Phytopathology*, 164(10), pp. 801–810.
- Kholida F.T, Ulaika E. (2016). Potensi Azotobacter sebagai Penghasil Hormon IAA (Indole Acetic Acid). *Jurnal Sains dan Seni ITS*, 4(2): E75-E77
- Kolhe, S., Bala, K., Meddya, S., Prashant, P., Sawant, K., & Barai, D. (2023). A Brief Review on Stemphylium Blight of Onion Caused by *Stemphylium vesicarium*. 12(7), pp. 2019–2028.
- Korlina, E., Hasyim, A. & Hermanto, C. (2021). Efficacy of Different Dose of Fungicide Mancozeb Against Purple Blotch Complex (*Alternaria porri*) of Shallot. *IOP Conference Series: Earth and Environmental Science*, 653(1), pp. 0–7.

- Kunova A, Maria B, Marco S, Cristina P, Xiaoyulong C, Paulo C. (2016). Selection of *Streptomyces* against soil borne fungal pathogens by a standardized dual culture assay and evaluation of their effects on seed germination and plant growth. *BMC Microbiol* 16: 272.
- Kurniawati, S., & Mutaqin, K. H. (2015). Eksplorasi dan Uji Senyawa Bioaktif Bakteri Agensia Hayati untuk Pengendalian Penyakit Kresek pada Padi. *Journal HPT Tropika*, 15(2), 170–179.
- Labeda, D.P. and Shearer, M.C. 1990. Isolation of Actinomycetes for Biotechnological Applications. In: D.P. Labeda (Eds. *Isolation of Biotechnological Organisms from Nature*: 1-19. McGraw-Hill Publishing Company.
- Larosa. SF., E., Kusdiyantini., B., Raharjo., A. Sarjiya. (2013). Kemampuan isolate bakteri penghasil Indole Acetic Acid (IAA) dari tanah gambut sampit Kalimantan Tengah. *Jurnal Biologi*, 2 (3): 41-54.
- Leach, A., Frank H., Riley H., Kellie C.D., & Brian N. (2019). Relationship Between Onion Thrips (*Thrips tabaci*) and *Stemphylium vesicarium* in the Development of Stemphylium Leaf Blight in Onion. *Ann Appl Biol*. 2020;176:55–64.
- Mahabbah, A. F., Aeny, T. N., & Maryono, T. (2014). Pengaruh *Trichoderma* spp. dan Fungisida Sintetis terhadap Pertumbuhan *Sclerotium rolfsii* dan Kejadian Penyakit Rebah Kecambah Kacang Tanah. 2(2), 208–214.
- Maritsa, H., & Riany, H. (2022). Screening Antagonistik Actinobacteria Sebagai Agen Biocontrol Terhadap *Ganoderma boninense*. *Journal Silva Tropika*. 6(1), 60-67.
- Miller, M. E., & Schwartz, H. F. (2008). Stemphylium leaf blight and stalk rot. 45-47.
- Munauwar, M. M., Nurmasyitoh, N., Sudirman, S., & Hendrival, H. (2023). Pemanfaatan *Trichoderma* sp. pada Tanaman Bawang Merah dengan Benih *True Shallot Seed* (Tss) Varietas Sangren di Desa Awe Kecamatan Syamtalira Aron Kabupaten Aceh Utara. *Jurnal Nauli*, 2(3), 1-7.
- Mutmainnah. (2013). *Isolasi Actinomycetes Dari Tanah Pembuangan Limbah Pabrik Gula Tebu (Camming) Bone Sebagai Penghasil Antibiotika*. Program Studi Farmasi Fakultas Farmasi Universitas Hasanuddin Makassar.
- Niam, M.Y. (2021). Aktivitas antifungi isolat bakteri asal sarang rayap sebagai biokontrol fungi patogen tanaman. In Eprints.Walisongo.Ac.Id.
- Pasigai, M.A., Abdul R.T., Maemunah.,Burhanuddin Nasir, Sri A. L., & Bahrudin. (2016). Teknologi Budidaya Bawang Merah Varietas Lembah Palu. *Untad Press*.
- Peraturan Menteri Pertanian Nomor 25/Permentan/OT.140/09/2020 Jenis Organisme Pengganggu Tumbuhan Karantina. 25 September 2020. Berita Negara Republik Indonesia tahun 2020 Nomor 1136. Jakarta.
- Pujiati, Primiani., N, & Marheny L. (2017). Budidaya Bawang Merah pada lahan sempit. *Paper Knowledge . Toward a Media History of Documents*.

- Purwantisari, S., Parman, S., Handayani, D., & Karnoto. (2019). Ketahanan sistemik tanaman kentang oleh aplikasi PGPR. *Bioma*, 21(2), 126–131.
- Quecine, Figueredo, E. F., Cruz, T. A. da, Almeida, J. R. de, Batista, B. D., Marcon, J., Andrade, P. A. M. de, Hayashibara, C. de A., Rosa, M. S., Azevedo, J. L., & Carolina, M. (2022). The key role of indole-3-acetic acid biosynthesis by *Bacillus thuringiensis* RZ2MS9 in promoting maize growth revealed by the ipdC gene knockout mediated by the CRISPR-Cas9 system. *Microbiological Research*, 266, 1–10.
- Radja, R., Simamora, A. V., & Hahuly, M. V. (2024) Karakterisasi Penyakit Pada Daun dan Umbi Bawang Merah (*Allium cepa* var. *aggregatum*). *Prosiding Seminar Nasional Pertanian*, 177-189
- Rahman, R. A. (2019). Seleksi Ketahanan Genotipe Bawang Merah (*Allium ascalonicum*) terhadap Penyakit Hawar Daun (*Stemphylium vesicarium*) serta Pertumbuhan dan Produksi TSS (True Shallot Seeds). *Tesis*. Universitas Winaya Mukti
- Renuka, R., Prabakar, K., Anandham, R., Pugalendhi, L., Rajendran, L., Raguchander, T., & Karthikeyan, G. (2023). Exploring the Potentiality of Native Actinobacteria to Combat the Chilli Fruit Rot Pathogens under PostHarvest Pathosystem. *Journal MDPI*, 1–19.
- Resti, Z. Trimurti H., Deddi P., & Nasrum. (2016). Aktivitas Enzim Peroksidase Bawang Merah Yang diintroduksi dengan Bakteri Endofit dan Tahan Terhadap Penyakit Hawar Daun Bakteri (*Xanthomonas Axonopodis* Pv. *Allii*). *Jurnal Hama Dan Penyakit Tumbuhan Tropika*, 16(2), p. 131.
- Resti, Zurai. Eri S. D.A. Xander., & W.F Zandini. (2023). First Report Of Stemphyllium Leaf Blight Diseases on Shallots in West Sumatra, Indonesia. *IOP Conf. Series: Earth and Environmental Science*, 1160 (2023) 012039
- Roopa, K. P., & Gadag, A. S. (2019). *Management of Soil-Borne Diseases of Plants Through Some Cultural Practices and Actinobacteria*. Plant Health Under Biotic Stress.
- Roslani, R., Hilman, Y., Sulastrini, I., Yufdy, M. P., Sinaga, R., & Hidayat, I. M. (2019). Evaluasi paket teknologi produksi benih TSS bawang merah varietas Bima Brebes di dataran tinggi (Evaluation of the packages TSS seed production technology of Bima Brebes varieties in the highland). *Indonesian Agency for Agricultural Research and Development*.
- Safitri, Y. A., Hasanah, U., Salamiah, S., Samharinto, S., & Pramudi, M. I. (2019). Distribution of Major Diseases of Shallot in South Kalimantan, Indonesia. *Asian Journal of Agriculture*, 3(2).
- Sathya, A., Vijayabharathi, R., & Gopalakrishnan, S. (2017). Plant GrowthPromoting Actinobacteria: A New Strategy for Enhancing Sustainable Production and Protection of Grain Legumes. 3 *Biotech*, 7(2), 1–10.
- Schaad, M., Jones, N. W., & Chun, J. B. (2001). *Laboratory Guide for Identification of Plant Pathogenic Bacteria*. Biologia Plantarum

- Simmons, E.G. (1969). Perfect states of *Stemphylium*. *Mycologia*, 60(1), pp. 1–26.
- Suhartono, S., & Artika, W. (2017). Isolasi dan Uji Aktivitas Protease dari Aktinobakteri Isolat Lokal (AKJ-09) Aceh. *Bioleuser*, 1(3), 116–120.
- Suhendro., Kusnawira., M. Zulkarnain, I & Triyono., A., (2000) Hama dan Penyakit Utama Tanaman Bawang Merah dan Pengendaliannya. *Novartis Crop Prost*, 47 p.
- Sumarni dan Hidayat, (2005). Klasifikasi Tanaman Bawang Merah. <http://hortikultura.litbang.deptan.go.id>.
- Sumarni, N. & Rosaliani R. (2010). Pengaruh Naungan Plastik Transparan, Kerapatan Tanaman Dan Dosis N Terhadap Produksi Dan Biaya Produksi Umbi Mini Asal Biji . *Agrijati Jurnal Ilmiah Ilmu-Ilmu Pertanian*, 20(1), hal. 52–59.
- Sumarni, N., R. Rosliani, & R. S. Basuki. (2012). Respon Pertumbuhan, Hasil Umbi, dan Serapan Hara NPK Tanaman Bawang Merah terhadap Berbagai Dosis Pemupukan NPK pada Tanah Alluvial. *J. Hort* 22(4):366-375.
- Suryaningsih. (2008). Pengendalian Penyakit Sayuran yang Ditanam dengan Sistem Budidaya Mosaik pada Pertanian Periurban. *J. Hort*, 18 (2), pp. 200 – 211.
- Sutriana, S., Ulpah, S., & Nur, M. (2021). Aplikasi Trichokompos dan Pupuk Grand-K Terhadap Pertumbuhan dan Hasil Bawang Merah (*Allium ascalonicum* L) Pada Lahan Gambut Rawan Terendam. *Jurnal Agroteknologi*, 12(1), 1-8.
- Taskirah, A., Damaris, B. & Gustina (2022). Mengidentifikasi Jamur Patogen Pada Tanaman Bawang Merah (*Allium cepa*) Di Kecamatan Tabang Kabupaten Mamas Sulawesi Barat. *Jurnal Celebes Biodiversitas*, 5(2), pp. 8–16.
- Tayviah, C.S. (2017). Epidemiology and Management of *Stemphylium* Leaf Blight on Onion (*Allium cepa* L .) in The Holland Marsh , Ontario . By A thesis presented to The University of Guelph In partial fulfilment of requirements For the degree of Masters of Science In Plant Agric. *Thesis*, Agricultur, p. University Of Guelph.
- Upe, A., & Asrijal, A. (2022). Produktivitas Optimum Bawang Merah Varietas Bima. *Journal Tabaro Agriculture Science*, 6(1), 669-675.
- Wahyuni, V., Yusuf, E.Y. & Riono, Y. (2018). Pemberian ZPT Alami Bawang Merah Dan Air Kelapa Untuk Pertumpuhan Stek Pucuk Lengkeng (*Dimocarpus longan* Lour). *Jurnal Agro Indragiri*, 1(01), pp. 276–284.
- Wright, Peter J., Searle, Bruce., Tyson, Joy L., & Mellow, K.D. (2019). The Current Outbreak of *Stemphylium* Leaf Blight of Onion in New Zealand- Identification of Cause and Review of Possible Risk Factors Associated With The Disease. *New Zealand Plant Protection*, 72, pp. 10-20.

- Yadav, A. N., Verma, P., Kumar, S., Kumar, V., Kumar, M., Sugitha, T. C. K., Bhim, Saxena, A. K., & Dhaliwal, H. S. (2018). Actinobacteria from Rhizosphere : Molecular Diversity, Distributions and Potential Biotechnological Applications (B. P. Singh, V. K. Gupta, & A. K. Passari (eds.); 1st ed.). Elsevier.
- Yani, M., Hayati, E. & Kurniawan, T. (2019). Pengaruh Ukuran Umbi Dan Jenis Bahan Organik Terhadap Pertumbuhan dan Hasil Tanaman Bawang Merah (*Allium ascalonicum* L.). *Jurnal Ilmiah Mahasiswa Pertanian Unsyiah*, 4(4), 691–697.
- Yanti, Y., Hamid, H., Dzulfahmi, M. D., Selviana, S., & Putra, I. R. (2023). Exploration of Indigenous Actinomycetes as Biocontrol Agents of Purple Blotch Diseases at Onion. In *IOP Conference Series: Earth and Environmental Science*, 1228(1)
- Yanti, Y., Hamid, H., Nurbailis & Tanjung M. P. (2022). Potensi Plant Growt Promoting Bacteria (PGPB) untuk Meningkatkan Ketahanan Bawang Merah Terhadap *Xanthomonas axonopodis* pv *allii*. Dalam: Seminar Nasional Semartani. *Prosiding Seminar Nasional*. Padang. Maret 2022.
- Yurnaliza, Margino S & Sembiring L. (2012). Kemampuan kitinase *Streptomyces* RKt5 sebagai antijamur terhdap pathogen *Fusarium oxysporum*. *Jurnal Nature Indonesia*. 14(1):42-64.
- Zhang, X., Zhang, Y., Zhao, J., Liu, C., Wang, S., Yang, L., He, H., Xiang, W., & Wang, X. (2014). *Nonomurea fusciosea* sp. nov., an Actinomycete Isolated from the Rhizosphere Soil of *Rehmannia* (*Rehmannia glutinosa* Libosch). *International Journal of Systematic and Evolutionary Microbiology*, 64(PART 4), 1102–1107.
- Zivkovic, Svetlana, Z. Ivanovic, S. Stojanovic, V. Gavrilovic, Jelica Balaz, and Tatjana Popovic. 2010. Screening of Antagonistic Activity of Microorganisms against *Colletotrichum Acutatum* and *Colletotrichum gloeosporioides*. *Archives of Biological Sciences*. 62(3), 611–23.

