

## DAFTAR PUSTAKA

- Akhtar, A., Hisamuddin, Robab, M.I., Abbasi, & Sharf, R. 2012. Plant growth promoting Rhizobacteria: An overview. *Journal of Natural Product and Plant Resource*. 2(1): 19-31.
- Arifal, F., Y. Yanti., E. Sulyanti., dan R. Harni. 2024. Uji Kemampuan Kultur Filtrat PGPB Secara In Vitro Terhadap Mortalitas dan Penetasan Telur Nematoda *Meloidogyne* spp. *Jurnal Agroteknologi*. 9(4) : 305-310.
- Ayaz, M., J. T. Zhao., W. Zhao., Y. K. Chi., Q. Ali., F. Ali., A. R. Khan., Q. Yu., J. W. Yu., W. C. Wu., R. D. Qi., and W. K. Huang. 2024. Biocontrol of plant parasitic nematodes by bacteria and fungi: a multi-omics approach for the exploration of novel nematicides in sustainable agriculture. *Frontiers of Microbiology*. 15, 1-16.
- Boisseau, M., and J. L. Sarah. 2008. In Vitro Rearing of *Pratylenchidae* Nematodes on Carrot Discs. *Banan Protocol*. 63(05): 307-310.
- Broughton, D.A., McAdam, J.H., 2002. *A red data list for the Falkland Islands vascular flora*. *Oryx* 36 (3), 279e287.
- Cao, H., Jiao, Y., Yin, N., Li, Y., Ling, J., Mao, Z., Yang, Y., & Xie, B. (2019). Analysis of the activity and biological control efficacy of the *Bacillus subtilis* strain Bs-1 against *Meloidogyne incognita*. *Crop Protection*, 122(April), 125–135. <https://doi.org/10.1016/j.cropro.2019.04.021>
- Claus, D., & Barkeley, R.C.W. 1986. *Genus Bacillus*. Di dalam: *Sneath PHA et al., eds. Bergey's Manual of Systematic Bacteriology*. 2, Baltimore: Lippincott Williams & Wilkins, 1105-1139.
- Direktorat Budidaya dan Pasca Panen Florikultura. 2012. SOP. Dan Petunjuk Lapangan (Petlap) SL GHP Pascapanen Leatherleaf. 42
- Fatemi. & C. jung. 2023. Pathogenicity of the root lesion nematode *Pratylenchus neglectus* depends on pre-culture conditions. *Scientific Reports* . 13(1):1-10.
- Febriza, A., Q. J. Adrian., dan A. Sucipto. 2021. Penerapan AR Dalam Media Pembelajaran Klasifikasi Bakteri. *Jurnal Pendidikan Biologi*. 11(1), 10-18.
- Graumann, P. 2007. *Bacillus: Cellular and Molecular Biology*. Caister Academic Press. UK.
- Hadioetomo, R. S. 1985. *Mikrobiologi Dasar dalam Praktek : Teknik dan Prosedur Dasar Laboratorium*. Gramedia, Jakarta : 163 pp.
- Hamdani, K. K., dan H. Susanto. 2020. Pengendalian Organisme Pengganggu Tanaman Melalui Solarisasi Tanah. *Agrosaintek*. 4(2): 146-154.
- Handoo, Z., L. Carta. and A. Skantar. 2008. Handoo, Z.A., L.K. Carta., dan A.M. Skantar. 2008. *Plant-Parasitic Nematodes of Coffee : Taxonomy, Morphology, and Phylogenetics of Coffee-Associated Root Lesion Nematodes, Pratylenchus spp.*. Springer. USA.
- Harni, R. 2013. Potensi Bakteri Endofit Mengendalikan Nematoda Parasit Pada Tanaman Kopi. *SIRINOV*. 1(3): 117-122.
- Harni, R., A. Munif., Supramana., dan I. Mustika. 2007. Potensi Bakteri Endofit Pengendali Nematoda Peluka Akar (*Pratylenchus brachyurus*) pada Nilam. *Journal of Biosciences*.14(1): 7-12
- Hasanah, B. 2024. Identifikasi Pterydophyta di Kawasan Universitas Samudra. *Jurnal Biosense*. 7(1): 35-49.
- Hashem, A., Tabassum, B., & Fathi Abd\_Allah, E. (2019). *Bacillus subtilis*: A plant-growth promoting rhizobacterium that also impacts biotic stress. *Saudi Journal*

of Biological Sciences, 26(6), 1291–1297.  
<https://doi.org/10.1016/j.sjbs.2019.05.004>

- Hooper MT. 1985. *The Illustrated Encyclopedia of Beekeeping England*. Blandford Press.
- Holderman, M. V., E. D. Queljoe., dan S. B. Rondonuwu. 2017. Identifikasi Bakteri Pada Pegangan Ekskalator di Salah Satu Pusat Perbelanjaan di Kota Manado. *Jurnal Ilmiah Sains*. 17(1): 15-17.
- Hu, H., Gao, Y., Li, X., Chen, S., Yan, S., & Tian, X. (2020). Identification and nematicidal characterization of proteases secreted by endophytic bacteria *Bacillus cereus* BCM2. *Phytopathology*, 110(2), 336–344.
- Hu, Y., J. You., Y. Wang., Y. Long., S. Wang., F. Pan., and Z. Yu. 2022. Biocontrol efficacy of *Bacillus velezensis* strain YS-AT-DS1 against the root-knot nematode *Meloidogyne incognita* in tomato plants. *Frontiers in Microbiology* . 1-12.
- Ibrahim, Y. I., Supramana., dan Giyanto. 2023. Populasi Nematoda Tanah pada Perlakuan Limbah Tanaman Brassicaceae. *Jurnal Fitopatologi Indonesia*. 19(1), 19-29
- Ikhsan, Z., K. Agustina., Yursida., U. Kalsum., A. Mugiasih., I. Y. Vajri., and A. B. Poleuleng. 2024. *Hama Tanaman Perkebunan*. CV. Tohar Medika: Makassar.
- Karim, Marzelina., D. K. A. Hattah., H. H. Haris., and Churiani. 2024. Isolation and Identification of bacteria in the Integrated laboratory of the Faculty of Medicine, Moslem Indonesia of University. *Jurnal Biologi tropis*. 24(1): 428433.
- Karunia, E., Kurniatuhadi, R., Hepi Y. A. (2021). Karakterisasi Bakteri *Bacillus* sp. (Kode NrLtF 5 ) Yang Diisolasi Dari Usus Cacing Nipah (*Namalycastis rhodochorde* ). *Jurnal Protobiont*. 10(3).
- Katz, D. S. 2008. *The Streak Plate Protocol*. American Society for Microbiology. USA.
- Khan, A., Chen, S., Fatima, S., Ahamad, L., and Siddiqui, M. A. (2023). Biotechnological tools to elucidate the mechanism of plant and nematode interactions. *Plan Theory* 12:2387.
- Kurniawati, F., N. T. Nursipa., dan A. Munif. 2020. Nematoda Parasit pada seledri (*Apium graveolens* L.) dan Pengendaliannya menggunakan Bakteri Endofit secara In Vitro. *Agrovior : Jurnal Agroekoteknologi*, 13(1): 70-81.
- Lee, Y. S., & Kim, K. Y. (2016). Antagonistic Potential of *Bacillus pumilus* L1 Against Root-Knot Nematode, *Meloidogyne arenaria*. *Journal of Phytopathology*, 164(1), 29–39. <https://doi.org/10.1111/jph.12421>
- Lestari, I., Murningsih., and S. Utami. 2019. The Species Biodiversity of Epifit Ferns in Petungkriyono Forest Pekalongan Regency, Central Java.
- Lian, L. H., B. Y. Tian., R. Ziong., M. Z. Zhu., J. Xu., and K. Q. Zhang. Proteases from *Bacillus*: A new insight into the mechanism of action for rhizobacterial suppression of nematode populations. *Letters in applied Microbiology*. 45(3):262 - 269
- Mugiastuti, E., Rahayuniati, R.F., & Sulistyanto, P. 2012. Pemanfaatan *Bacillus* sp. Dan *Pseudomonas fluorescens* untuk mengendalikan penyakit layu tomat akibat sinergi *R. solanacaerum* dan *Meloidogyne* sp. *Prosiding Seminar Nasional PengembangarT Sumber Daya Pedesaan dan Kearifan Lokal Berkelanjutan II*. 3(1): 72-17
- Mulyadi. 2009. *Nematologi Pertanian*, Fakultas Pertanian UGM. Gadjah Mada University Press, Yogyakarta.
- Nguyen, T. D., T. M. L. Le., H. T. Nguyen., T. A. D. Nguyen., G. Liebanas., and Q. P. Trinh. 2017. Morphological and Molecular Characteristics of *Pratylenchus*

- haiduongensis* sp. n., a New Species of Root-Lesion Nematodes Associated with Carrot in Vietnam. *Journal of Nematology* 49(3):276–285.
- Oka, Y. 2010. Mechanisms of nematode suppression by organic soil amendments A review. *Applied Soil Ecology*. 44(2), 101-115.
- Plantamor Situs Dunia Tumbuhan. (2023). *Rumohra adiantiformis*. <http://plantamor.com/>. Diakses pada tanggal 27 Desember 2024.
- Puspita, F., M. Ali, R. Pratama. 2017. Isolasi dan karakteristik morfologi dan fisiologi bakteri *Bacillus* sp. Endofit dari tanaman kelapa sawit (*Elaeis guineensis* Jacq.). *Jurnal Agritek Tropika*, 6(2): 44-49.
- Rabbee, M. F., Ali, M. S., Choi, J., Hwang, B. S., Jeong, S. C., & Baek, K. H. (2019). *Bacillus velezensis*: A valuable member of bioactive molecules within plant microbiomes. *Microbiology*, 165(6), 674–685.
- Radhakrishnan, R., A. Hashem., and E. F. A. Abdullah. 2017. *Bacillus*: A Biological Tool for Crop Improvement through Bio-Molecular Changes in Adverse Environments. *Frontiers in Pshyology*. 8(667):1-14.
- Raaijmakers, J. M., T. C. Paulitz., C. Steinberg., C. Alabouvette., and Y. M. Loco. 2009. The rhizosphere: a playground and battlefield for soilborne pathogens and beneficial microorganisms . *Plant Soil*. (321), 341–361.
- Rosmania, R., & Yanti, F. (2020). Perhitungan Jumlah Bakteri di Laboratorium Mikrobiologi Menggunakan Pengembangan Metode Spektrofotometri. *Jurnal Penelitian Sains*, 22(2), 76–86.
- Ruiz, R. S., L. G. Alpizar., D. A. H. Pereira., and L. F. Chaves. 2023. Molecular identification of root-lesion nematodes, *Pratylenchus* spp. in agricultural crops from Costa Rica. *Agronomia Mesoamericana*. 34(1)
- Sarmah, R. Widyastuti., dan Supramana. 2022. Komunitas Nematoda pada Lahan Pertanian Wortel dan Hubungannya dengan Populasi Mikroba Tanah. *Jurnal Tanah dan Iklim*. 46(1): 91-102.
- Schaad, N.W., Jones, J.B., dan Chun, W. 2001. *Laboratory Guide for Identification of Plant Pathogenic Bacteria*. APS Press, St Paul.
- Seo, H. J., Park, A. R., Kim, S., Yeon, J., Yu, N. H., Ha, S., Chang, J. Y., Park, H. W., & Kim, J. C. 2019. Biological control of root-knot nematodes by organic acid-producing *Lactobacillus brevis* wikim0069 isolated from kimchi. *Plant Pathology Journal*, 36(6), 662-673.
- Sivasakthi, S., Usharani, G., & Saranrai, P. 2014. Biocontrol potentiality of plant growth promoting bacteria (PGPR)-*Pseudomonas fluorescens* and *Bacillus subtilis*: A review. *African Journal of Agricultural Research*. 9(16): 1265-1277.
- Srinivasan, P. V., K. B. Park., K. Y. Kim., W. J. Jung. And Y. S. Han. 2025. The role of *Bacillus* species in the management of plant-parasitic nematodes. *Frontiers in Microbiology* . (15), 1-29
- Syamsu, R. F., Tebi., Y. Y. Saifullah., dan Febriyanti. 2023. Efektivitas Minyak Zaitun Terhadap Bakteri Gram Positif dan Bakteri Gram Negatif. *PREPOTIF : Jurnal Kesehatan Masyarakat*. 7(3): 16957-16971
- Thimann, K. V. 1995. *The Life of Bacteria*. The Macmillan Company, New York.
- Tran, T.P. H., S.L. Wang, V.B. Nguyen, D.M. Tran, D.S. Nguyen dan A. Nguyen. D. 2019. Study of novel endophytic bacteria for biocontrol of black pepper rootknot nematode in the central highlands of Vietnam. *Agronomy*, 9(11):714.
- Tuyet, N.T. 2010. A comparative polyphasic study of 10 *Pratylenchus coffeae* populations from Vietnam. *Katholieke Universiteit Leuven, Belgia*.
- Umamaheswari, R., P. Prabu., M. S. Rao., B. M. Kavya., and G. N. Grace. Protoase and Synthetic Volatile Analogue Compounds from *Bacillus amyloliquefaciens* IHR

- BA2 Exhibit Bio-Control Action Against Root Knot Nematode *Meloidogyne incognita*. Zoological society of Pakistan. 57(1): 231-240.
- Van, Bezooijen. 2006. Methods and Technicues for Nematology. Wageningen University, Wageningen (NL).
- Vieira, P., S. E. D. Akker., R. Verma., S. Wantoch., J.D. Eisenback., and K. Kamo. 2015. The *Pratylenchus penetrans* Transcriptome as a Source for the Development of Alternative Control Strategies: Mining for Putative Genes Involved in Parasitism and Evaluation of in planta RNAi. PLOS ONE. 10(12): 1-25.
- Wang, k. H., and R. McSorley. 2008. Exposure Time to Lethal Temperatures for *Meloidogyne incognita* Suppression and Its Implication for Soil Solarization. Journal of Nematology 40(1):7-12.
- Wu. W., Y. Zeng., X. Yan., Z. Wang., L. Guo., Y. Zhu., Y. Wang., and X. He. 2023. Volatile Organic Compounds of *Bacillus velezensis* GJ-7 against *Meloidogyne hapla* through Multiple Prevention and Control Modes 28(7), 1-13.
- Xiang, N., Lawrence, K. S., Kloepper, J. W., Donald, P. A., McInroy, J. A., & Lawrence, G. W. (2017). Biological control of *Meloidogyne incognita* by *Bacillus firmus* strain GB126 in cotton and soybean. Plant Disease, 101(4), 661-667.
- Xiong, W., Li, R., Ren, Y., Liu, C., Zhao, Q., Wu, H., Jousset, A., Shen, Q., & Geisen, S. (2020). Distinct roles for surfactin and fengycin in the interaction of *Bacillus subtilis* with plant-parasitic nematodes. ISME Journal, 14(4), 1045-1058.
- Yu, Y. T., H. L. Liu., A. G. Zhu., G. Zhang., L. B. Zeng., and S. D. Xue. 2012. A Review of Root Lesion Nematode: Identification and Plant Resistance. Advances in Microbiology. 2 : 411-416.
- Zhang, Y. S. Li., H. Li., R. Wang., K. Q. Zhang., and J. Xu. 2020. Fungi-Nematode Interactions: Diversity, Ecology, and Biocontrol Prospects in Agriculture. Journal of Fungi. 6(4): 1-24.