



## **DAFTAR PUSTAKA**

- Alexander, A., Singh, V. K., Mishra, A., & Jha, B. (2019). Plant growth promoting rhizobacterium *Stenotrophomonas maltophilia* BJ01 augments endurance against N<sub>2</sub> starvation by modulating physiology and biochemical activities of *Arachis hypogea*. *Plos one*, 14(9), e0222405.
- Atifah, Y., & Achyar, A. (2022). Design of Specific Primer for Methallothionein Gene of Tor Fish (*Tor tmbra*). *Natural Science: Journal of Science and Technology*, 11(02), 42-48.
- Baba, V. Y., Powell, A. F., Ivamoto-Suzuki, S. T., Pereira, L. F., Vanzela, A. L., Giacomin, R. M., Strickler, S. R., Mueller, L. A., Rodrigues, R. & Gonçalves, L. S. (2020). Capsidiol-related genes are highly expressed in response to *C. olletotrichum scovillei* during *Capsicum annuum* fruit development stages. *Scientific Reports*, 10(1), 12048.
- Bador, J., Nicolas, B., Chapuis, A., Varin, V., Dullier-Taillefumier, N., de Curraize, C., ... & Neuwirth, C. (2020). 16S rRNA PCR on clinical specimens: impact on diagnosis and therapeutic management. *Medecine et Maladies Infectieuses*, 50(1), 63-73.
- Bai, B., Liu, W., Qiu, X., Zhang, J., Zhang, J., & Bai, Y. (2022). The root microbiome: Community assembly and its contributions to plant fitness. *Journal of Integrative Plant Biology*, 64(2), 230-243.
- Buttmer, C., McAuliffe, O., Ross, R. P., Hill, C., O'Mahony, J., & Coffey, A. (2017). Bacteriophages and bacterial plant diseases. *Frontiers in microbiology*, 8, 34.
- Carvajal-Yepes, M., Cardwell, K., Nelson, A., Garrett, K.A., Giovani, B., Saunders, D.G., Kamoun, S., Legg, J.P., Verdier, V., Lessel, J. and Neher, R.A. (2019). A global surveillance system for crop diseases. *Science*, 364(6447), pp.1237-1239.
- Cesa-Luna, C., Baez, A., Quintero-Hernández, V., CRUZ-ENRÍQUEZ, J. D. L., Castañeda-Antonio, M. D., & Muñoz-Rojas, J. (2020). The importance of antimicrobial compounds produced by beneficial bacteria on the biocontrol of phytopathogens. *Acta biológica colombiana*, 25(1), 140-154.
- Chakravorty, S., Helb, D., Burday, M., Connell, N., & Alland, D. (2007). A detailed analysis of 16S ribosomal RNA gene segments for the diagnosis of pathogenic bacteria. *Journal of microbiological methods*, 69(2), 330-339.



- Crossley, B. M., Bai, J., Glaser, A., Maes, R., Porter, E., Killian, M. L., Clement, T. & Toohey-Kurth, K. (2020). Guidelines for Sanger sequencing and molecular assay monitoring. *Journal of Veterinary Diagnostic Investigation*, 32(6), 767-775.
- Deng, C., Liang, X., Zhang, N., Li, B., Wang, X., & Zeng, N. (2022). Molecular mechanisms of plant growth promotion for methylotrophic *Bacillus aryabhattai* LAD. *Frontiers in Microbiology*, 13, 917382.
- Devi, R. K., Aini, L. Q., & Abadi, A. L. (2013). Uji Metode Inokulasi dan Patogenisitas Blood Disease Bacterium (BDB) pada Buah Pisang (Musa Sp.). *Jurnal HPT (Hama Penyakit Tumbuhan)*, 1(1), 40-46.
- Djoht, D. R. (2002). Etnobotani pisang suku karon: studi tentang ekologi pangan pokok. *Antropologi Papua*, 1(2), 33-39.
- Doherty, E. M., Avery, P. B., Duren, E. B., Cano, L. M., & Rossi, L. (2021). In planta localization of endophytic *Cordyceps fumosorosea* in carrizo citrus. *Microorganisms*, 9(2), 219.
- FAO. 2014. Banana market review and banana statistics 2012–2013. Market and policy analyses of raw materials, horticulture and tropical (RAMHOT) Products Team. Rome.
- FAO. 2022. Banana Market Review – Preliminary results 2022. Rome.
- Fetri, W. A., Rasak, A., & Ahda, Y. (2021). Analisis Filogenetik Ikan Tuna (*Thunnus* spp) di Perairan Maluku Utara Menggunakan COI (Cytocrome Oxydase I). *BIOMA: Jurnal Biologi Makassar*, 6(2), 31-39.
- Garibyan L, Avashia N. (2013) Polymerase Chain Reaction. *J Invest Dermatol*. 133(3):1-4. Doi: 10.1038/Jid.2013.1.
- Geneaid. Genomic DNA Mini Kit (Plant) Protocol. Ver.02.10.17.
- Geneaid. Presto™ Mini gDNA Bacteria Kit. Ver.02.10.17.
- Ghosh, R., Chatterjee, S., & Mandal, N. C. (2020). *Stenotrophomonas*. In *Beneficial microbes in agro-ecology* (pp. 427-442). Academic Press.
- Gulati, S., Singh, A., Shoaib, M., & Kukreti, S. (2021). Computational and functional annotation at genomic scale: gene expression and analysis. In *Chemoinformatics and Bioinformatics in the Pharmaceutical Sciences* (pp. 361-387). Academic Press.



- Harahap, M. R. (2018). Elektroforesis: analisis elektronika terhadap biokimia genetika. *Jurnal Ilmiah Pendidikan Teknik Elektro* 2(1):21-26.
- Hardiansyah, M. Y., Musa, Y., & Jaya, A. M. (2020). Identifikasi plant growth promoting rhizobacteria pada rizosfer bambu duri dengan gram KOH 3%. *Agrotechnology Research Journal*, 4(1), 41-46.
- Hudaya, A., Radiastuti, N., Sukandar, D., & Djajanegara, I. (2014). Uji aktivitas antibakteri ekstrak air bunga kecombrang terhadap bakteri e. coli dan s. aureus sebagai bahan pangan fungsional. *Jurnal Biologi* 7(1):9-15.
- Ika, R. S. dan Syamsuddin, D. (2014). *Studi introduksi pisang cavendish dan hama penyakitnya*. UB Press, Malang.
- Irwandi, Azyenela, L., Sari, H. P., Wardi, E. S., & Sartika, D. (2023). Isolasi dan identifikasi dengan gen 16s rRNA bakteri endofit dari tanaman pepaya (*Carica papaya* L.) serta uji aktivitas antibakterinya. *Journal of Pharmaceutical and Sciences*, 6(3), 1068–1078.
- Jacob, J., Krishnan, G. V., Thankappan, D., & Amma, D. K. B. N. S. (2020). Endophytic bacterial strains induced systemic resistance in agriculturally important crop plants. In *Microbial Endophytes* (pp. 75-105). Woodhead Publishing.
- Jiang, N., Yan, J., Liang, Y., Shi, Y., He, Z., Wu, Y., Zeng, Q., Liu, X. & Peng, J. (2020). Resistance genes and their interactions with bacterial blight/leaf streak pathogens (*Xanthomonas oryzae*) in rice (*Oryza sativa* L.)—an updated review. *Rice*, 13(1), 1-12.
- Kellis, M. (2016). Computational Biology: Genomes, Networks, Evolution. MIT course.
- Khare E, Mishra J and Arora NK (2018) Multifaceted Interactions Between Endophytes and Plant: Developments and Prospects. *Front. Microbiol.* 9:2732. doi: 10.3389/fmicb.2018.02732
- Li, J., Wang, C., Liang, W., & Liu, S. (2021). Rhizosphere microbiome: The emerging barrier in plant-pathogen interactions. *Frontiers in Microbiology*, 12, 772420.
- Lorenz, T. C. (2012). Polymerase chain reaction: basic protocol plus troubleshooting and optimization strategies. *JoVE (Journal of Visualized Experiments)*, (63), e3998.
- Magdeldin, S. (2012). *Get Electrophoresis: Principles And Basics*. Intech Publisher, Croatia.



- Marwan, H., Rainiyati, R., & Mulyati, S. (2020). Pengaruh aplikasi bakteri endofit terhadap perkembangan penyakit darah (*Ralstonia solanacearum* Phylotype IV) pada tanaman pisang. *Jurnal Budidaya Pertanian*, 16(1), 95-101.
- Maseko, K. H., Regnier, T., Meiring, B., Wokadala, O. C., & Anyasi, T. A. (2024). Musa species variation, production, and the application of its processed flour: A review. *Scientia Horticulturae*, 325, 112688.
- Medison, R. G., Tan, L., Medison, M. B., & Chiwina, K. E. (2022). Use of beneficial bacterial endophytes: A practical strategy to achieve sustainable agriculture. *AIMS microbiology*, 8(4), 624.
- Messiha, N. A. S., Van Diepeningen, A. D., Farag, N. S., Abdallah, S. A., Janse, J. D., & Van Bruggen, A. H. C. (2007). *Stenotrophomonas maltophilia*: a new potential biocontrol agent of *Ralstonia solanacearum*, causal agent of potato brown rot. *European journal of plant pathology*, 118, 211-225.
- Mitter, B., Sessitsch, A., & Naveed, M. (2021). U.S. Patent No. 11,186,527. Washington, DC: U.S. Patent and Trademark Office.
- Mohammadi, M. M., & Bavi, O. (2022). DNA sequencing: an overview of solid-state and biological nanopore-based methods. *Biophysical reviews*, 14(1), 99-110.
- Mullis, K., Faloona, F., Scharf, S., Saiki, R., Horn, G., & Erlich, H. (1986). Specific enzymatic amplification of DNA in vitro: the polymerase chain reaction. In *Cold Spring Harbor symposia on quantitative biology* (Vol. 51, pp. 263-273). Cold Spring Harbor Laboratory Press.
- Murthi, R.S. and Safni, I., (2021). Isolation and selection specific bacteriophage from banana in North Sumatera to biologically control *Ralstonia syzygii* sub sp. *celebesensis* in vitro. In *IOP Conference Series: Earth and Environmental Science* (Vol. 782, No. 4, p. 042018). IOP Publishing.
- Mushtaq, S., Shafiq, M., Tariq, M. R., Sami, A., Nawaz-ul-Rehman, M. S., Bhatti, M. H. T., ... & Shahid, M. A. (2023). Interaction between bacterial endophytes and host plants. *Frontiers in Plant Science*, 13, 1092105.
- Navgire, G. S., Goel, N., Sawhney, G., Sharma, M., Kaushik, P., Mohanta, Y. K., Mohanta, T. K., & Al-Harrasi, A. (2022). Analysis and Interpretation of metagenomics data: An approach. *Biological Procedures Online*, 24(1), 1-22.
- Oktasila, D., Nurhamidah, N., & Handayani, D. (2019). Uji aktivitas antibakteri daun jeruk kalamansi (*citrofortunella microcarpa*) terhadap bakteri *staphylococcus aureus* dan *escherichia coli*. *ALOTROP*, 3(2).



- Osdaghi, E. (2023). *Ralstonia syzygii* subsp. *celebesensis* (banana blood disease). CABI Compendium.
- Oukala, N., Aissat, K., & Pastor, V. (2021). Bacterial endophytes: The hidden actor in plant immune responses against biotic stress. *Plants*, 10(5), 1012.
- Peng, C., Zhang, A., Wang, Q., Song, Y., Zhang, M., Ding, X., Li, Y., Geng, Q., and Zhu, C. (2020). Ultrahigh-activity immune inducer from Endophytic Fungi induces tobacco resistance to virus by SA pathway and RNA silencing. *BMC Plant Biol* 20, 169.
- Pereira, F., Amorim, A., & van Asch, B. (2013). Genetic and DNA-based techniques. In Comprehensive analytical chemistry (Vol. 60, pp. 195-220). Elsevier.
- Poerba, Y. S, Witjaksono, Martanti, D, et al. (2018). Katalog Pisang, Koleksi Kebun Plasma Nutfah Pisang Pusat Penelitian Biologi Lembaga Ilmu Pengetahuan Indonesia. LIPI Press, Jakarta.
- Poirier, S., Rué, O., Peguilhan, R., Coeuret, G., Zagorec, M., Champomier-Verges, M. C., ... & Chaillou, S. (2018). Deciphering intra-species bacterial diversity of meat and seafood spoilage microbiota using *gyrB* amplicon sequencing: A comparative analysis with 16S rDNA V3-V4 amplicon sequencing. *PLoS One*, 13(9), e0204629.
- Qamar, S., & Shaikh, A. (2018). Therapeutic potentials and compositional changes of valuable compounds from banana-A review. *Trends in Food Science & Technology*, 79, 1-9.
- 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. *Molecules*, 24(6), 1046.
- Rahma, A. A., Suryanti, S. S., & Joko, T. (2020). Research Article Induced Disease Resistance and Promotion of Shallot Growth by *Bacillus velezensis* B-27. *Pak. J. Biol. Sci*, 23(9), 1113-1121.
- Rana, K. L., Kour, D., Sheikh, I., Yadav, N., Yadav, A. N., Kumar, V., Singh, B. P., Dhaliwal, H. S. & Saxena, A. K. (2019). Biodiversity of endophytic fungi from diverse niches and their biotechnological applications. Advances in endophytic fungal research: present status and future challenges, 105-144.
- Rau, C. H., Yudistira, A., & Simbala, H. E. I. (2018). Isolasi, Identifikasi secara Molekuler Menggunakan Gen 16S rRNA, dan Uji Aktivitas Antibakteri bakteri Simbion Endofit yang Diisolasi dari Alga Halimeda opuntia. *Pharmacon*, 7(2).



- Ray, J. D., Subandiyah, S., Rincon-Florez, V. A., Prakoso, A. B., Mudita, I. W., Carvalhais, L. C., Markus, J. E.R., O'Dwyer, C. A. & Drenth, A. (2021). Geographic expansion of banana blood disease in Southeast Asia. *Plant Disease*, 105(10), 2792-2800.
- Sader, H. S., & Jones, R. N. (2005). Antimicrobial susceptibility of uncommonly isolated non-enteric Gram-negative bacilli. *International journal of antimicrobial agents*, 25(2), 95-109.
- Safni, I., Subandiyah, S., & Fegan, M. (2018). Ecology, epidemiology and disease management of *Ralstonia syzygii* in Indonesia. *Frontiers in Microbiology*, 9, 419.
- Sanger, F., & Coulson, A. R. (1975). A rapid method for determining sequences in DNA by primed synthesis with DNA polymerase. *Journal of molecular biology*, 94(3), 441-448.
- Sanger, F., Nicklen, S., & Coulson, A. R. (1977). DNA sequencing with chain-terminating inhibitors. *Proceedings of the national academy of sciences*, 74(12), 5463-5467.
- Sari, F., Widyorini, N., & Sabdaningsih, A. (2021). Isolasi dan identifikasi dengan gen 16s rrna dari bakteri asosiasi spons kelas demospongiae di perairan tulamben Bali. *Jurnal Pasir Laut*, 5(2), 110-118.
- Sari, J. P., Subandiyah, S., dan Joko, T. (2018). Pemanfaatan bakteri endofit dari akar pisang sebagai agens pengendali hayati terhadap *Ralstonia syzygii* subsp. *celebesensis*. Skripsi S-1. Proteksi Tanaman, Universitas Gadjah Mada.
- Sari, S. K., Listyorini, D., Mazieda, M. N., & Sulasmi, E. S. (2014). Optimasi teknik isolasi dan purifikasi DNA pada daun cabai rawit (*Capsicum frutescens* cv. Cakra Hijau) menggunakan Genomic DNA Mini Kit (Plant) GENEALID. In Proceeding Biology Education Conference: Biology, Science, Environmental, and Learning (Vol. 11, No. 1, pp. 65-70).
- Sationo, P. P. (2021). Pemanfaatan Kulit Pisang Emas (*Musa Acuminata*) Sebagai Biosorben Ion Besi (Fe 2+).
- Setiati, N., & Hidayah, N. (2020). The use of two pairs primer for CO1 gene amplification on traded stingray at fish auction Tasik Agung Rembang. In *Journal of Physics: Conference Series* (Vol. 1567, No. 3, p. 032056). IOP Publishing.



- Setiawati, R. A., Rahmawati, R., & Wardoyo, E. R. P. (2020). Isolasi dan identifikasi jamur pascapanen penyebab busuk buah pisang ambon (*Musa paradisiaca* L.). *Jurnal Protobiont*, 9(2):125-131.
- Siswanto, T., Sianipar, N. F., Warnars, H. L. H. S., & Prabowo, H. (2022). Algorithm Model Determination of DNA Primer Design For The Success PCR Process, 12(7), 101-107.
- Srinivasa, C., Sharanaiah, U., & Shivamallu, C. (2012). Molecular detection of plant pathogenic bacteria using polymerase chain reaction single-strand conformation polymorphism. *Acta Biochim Biophys Sin*, 44(3), 217-223.
- Subari, A., Razak, A., & Sumarmin, R. (2021). Phylogenetic analysis of Rasbora spp. based on the mitochondrial DNA COI gene in Harapan Forest. *Jurnal Biologi Tropis*, 21(1), 89-94.
- Suryalita, S. (2019). Review beraneka ragam jenis pisang dan manfaatnya. In *Prosiding Seminar Nasional Biologi* (Vol. 5, No. 1).
- Tao, H., Shi, X., He, F., Wang, D., Xiao, N., Fang, H., Wang, R., Zhang, F., Wang, M., Li, A., Liu, X., Wang, G.L., and Ning, Y. (2021). Engineering broad-spectrum disease-resistant rice by editing multiple susceptibility genes. *J. Integr. Plant Biol.* 63: 1639– 1648. doi: 10.1111/jipb.13145.
- Tsoktouridis, G., Tsiamis, G., Koutinas, N., & Mantell, S. (2014). Molecular detection of bacteria in plant tissues, using universal 16S ribosomal DNA degenerated primers. *Biotechnology & Biotechnological Equipment*, 28(4), 583-591.
- Vidaver, A.K. and P.A. Lambrecht (2004). Bacteria as plant pathogens. *The Plant Health Instructor*. DOI: 10.1094/PHI-I-2004-0809-01
- Wahyudi, D., & Rifliyah, K. (2020). Genome evaluation of banana cultivars based on morphological character and Inter-Simple Sequence Repeat (ISSR) molecular marker. *Biodiversitas Journal of Biological Diversity*, 21(7).
- 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.
- Widiyanti, N. L. P. M., Maryam, S., Parwata, I. P., & Mulyadiharja, S. (2014). Perbandingan Tampilan Pita Penanda DNA (Deoxyribonucleic Acid) Standar dan Penentuan Panjang DNA Kromosom Y yang Diisolasi dari Darah Manusia Pada Pemisahan Dengan Menggunakan Media Berbeda. In *Prosiding Seminar Nasional MIPA*.



- Xie, Y., Peng, Q., Ji, Y., Xie, A., Yang, L., Mu, S., Li, Z., He, T., Xiao, Y., Zhao, J. & Zhang, Q. (2021). Isolation and identification of antibacterial bioactive compounds from *Bacillus megaterium* L2. *Frontiers in Microbiology*, 12, 645484.
- Xu, X., & Kovács, Á. T. (2024). How to identify and quantify the members of the *Bacillus* genus?. *Environmental Microbiology*, 26(2), e16593.
- Yang, M. Q., Wang, Z. J., Zhai, C. B., & Chen, L. Q. (2024). Research progress on the application of 16S rRNA gene sequencing and machine learning in forensic microbiome individual identification. *Frontiers in Microbiology*, 15, 1360457.
- Ye, J., Coulouris, G., Zaretskaya, I., Cutcutache, I., Rozen, S., & Madden, T. L. (2012). Primer-BLAST: a tool to design target-specific primers for polymerase chain reaction. *BMC bioinformatics*, 13, 1-11.
- Yunita, R., Rosadi, F. N., & Azizah, A. (2023, April). Optimization of annealing temperature for amplification of the exon one region of the HPPD gene in HA1 accession sunflowers. In *IOP Conference Series: Earth and Environmental Science* (Vol. 1160, No. 1, p. 012002). IOP Publishing.
- Zhou, J., Xie, Y., Liao, Y., Li, X., Li, Y., Li, S., ... & He, Y. Q. (2022). Characterization of a *Bacillus velezensis* strain isolated from *Bolbostemmatis Rhizoma* displaying strong antagonistic activities against a variety of rice pathogens. *Frontiers in microbiology*, 13, 983781.