DAFTAR PUSTAKA

Adesemoye, A.O., M. Obini and E.O. Ugoji. 2008. Comparison of plant growth promotion with *Pseudomonas aeruginosa* and *Bacillus subtilis* in three vegetables. *Brazilian Journal of Microbiology*, 3(9), 423-426.

Aditya, W. N. 2015. *Perancangan Sistem Pakar Pendeteksi Penyakit Pada Tanaman Kopi Dengan Layanan Berbasis Lokasi*. Univeristas Binus Jakarta, 45-50.

Ait, K. A., Kacem, C. N., Dehimat, L., Milet, A., Youcef, A. M., Ongena, M., & Thonart, P. 2013. Biocontrol and plant growth promoting characterization of Bacillus species isolated from *Calendula officinalis* rhizosphere. *Indian Journal of Microbiology*, 53(3), 284-294.

Alori, E. T., Glick, B. R., & Babalola, O.O. 2017. Microbial Phosphorus Solubilization and Its Potential for Use in Sustainable Agriculture. *Frontiers in Microbiology*, 8(971), 1-8.

Ambardar, S., Vakhlu, J., & Vakhlu, A. 2021. Deciphering core plant microbiome: Progress and way forward. *Frontiers in Sustainable Food Systems*, *5*, 644230.

Aneja, K. R. 2007. *Experiments in microbiology, plant pathology and biotechnology*. New Delhi: New Age International.

Angeles, D. M., & Scheffers, D. J. 2021. The cell wall of *Bacillus subtilis*. *Current Issues in Molecular Biology*, 41, 539–596.

Ariyani, M. D., Tirta, K. D., & Sri, P. 2021. Isolasi dan Karakterisasi Plant Growth Promoting Rhizobacteria dari Perakaran Kelapa Sawit pada Lahan Gambut. *Bioma*, 23(2), 159-171.

Asril, M., & Lisafitri, Y. 2020. Isolasi Bakteri Pelarut Fosfat Genus Pseudomonas dari Tanah Masam Bekas Areal Perkebunan Karet di Kawasan Institut Teknologi Sumatera. *Jurnal Teknologi Lingkungan*, 21(1), 40-48.

Burdman, S., Okon, Y., & Jurkevitch, E. 2000. Surface characteristics of *Azospirillum brasilense* in relation to cell aggregation and attachment to plant roots. *Critical Reviews in Microbiology*, 26(2), 91-110.

Chakraborty, A., & Chatterjee, S. 2016. Phenotypic and biochemical characterization of microbial diversity of *Aedes albopictus* breeding groundwater occurring in Burdwan, West Bengal, India. *Journal of Mosquito Research*, 6(26), 1-7.

Clements, D. R., DiTommaso, A., & Jin, M. (2023). Mikania micrantha: An invasive weed with ecological, agricultural, and societal impacts. *Plants*, 14(2), 269.

Cruz Ramos, H., Hoffmann, T., Marino, M., Nedjari, H., Presecan-Siedel, E., Dreesen, O., Glaser, P., & Jahn, D., 2000. Fermentative metabolism of *Bacillus subtilis*: Physiology and regulation of gene expression. *Journal of Bacteriology*, 182(11), 3072–3080.

Daras, U., Octivia, T., & Ling, S. 2013. Pengaruh mikoriza dan ameliorant terhadap pertumbuhan benih kopi. *Buletin Ristri*, 4(2), 145-156.

Deutscher, J. 2008. The mechanisms of carbon catabolite repression in bacteria, *Current Opinion in Microbiology*, 11(2), 87–9.

De Vos, P., Garrity, G.M., Jones, D., Krieg, N.R., Ludwig, W., Rainey, F.A., Schleifer, K.H. and Whitman, W.B. 2009. The Firmicutes. In: P. De Vos et al. (Eds). *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 3. pp. 1–

1450. Springer. New York.

De Zutter, N., Ameye, M., Bekaert, B., Verwaeren, J., De Gelder, L., & Audenaert, K. 2022. Uncovering new insights and misconceptions on the effectiveness of phosphate solubilizing rhizobacteria in plants: A meta-analysis. *Frontiers in Plant Science, 13*, 858804.

Direktorat Jenderal Perkebunan, *Kementerian Pertanian. 2013. Pedoman Teknis Pengembangan Tanaman Kopi 2014*. http://ditjenbun.pertanian.go.id/downl . Diakses tanggal 21 April 2024, jam 11.12 WIB.

Ehling-Schulz, M., Fricker, M., Grall, N., Rieck, P., Wagner, M., & Stenfors Arnesen, L. P., 2015. Characteristics of enterotoxin distribution, hemolysis, lecithinase, and starch hydrolysis of *Bacillus cereus* isolated from infant formulas and ready-to-eat foods. *Journal of Dairy Science*, 98(6), 3483–3492.

Elfiati, D., Delvian, D., & Hanum, H., 2016. Indeks pelarutan fungi pelarut fosfat dengan menggunakan empat sumber fosfat. *Prosiding Seminar Nasional Lahan Suboptimal*, Palembang, pp.89-105.

Fan, M., Huang, S., Li, Y., Zhao, Y., & Fan, B. 2022. 'Flagella and motility-related properties of *Bacillus*: a review', *Microbiology China*, 49(5), 1832–1845.

Feng, Y., Yang, W., Ong, S. L., Hu, J. & Ng, W. J., 2001. Fermentation of starch for enhanced alkaline protease production by constructing an alkalophilic *Bacillus pumilus* strain. *Applied Microbiology and Biotechnology*, 57(1–2), .153–160.

Fitriatin, B. N., Fauziah, D., Fitriani, F. N., Ningtyas, D. N., Suryatmana, P., Hindersah, R., Setiawati, M. R., & Simarmata, T. (2020). Biochemical activity and bioassay on maize seedling of selected indigenous phosphate-solubilizing bacteria isolated from the acid soil ecosystem. *Open Agriculture*, 5(1), 300–304.

Foster, R. C., & Schimel, D. S. 2009. Plant Growth action of rhizobacteria. *Advances in Botanical Research*, editor oleh U. Lüttge, W. Beil, dan M. Heinz, Academic Press. P.283-320.

Gentili, F., and A. Jumpponen. (2005). *Handbook of Microbial Fertilizers*. Rai MK, editor. The Hawort Press, Inc: New York

Gray, B. G. & Hew, C. K. 1968. Cover crop management on oil palm on the West Coast of Malaysia. P 56-65. In: Turnrt, P.D. [eds]. *Proceedings of Conference on Oil Palm Development Malaysia*. Incorporated Society of Planters, Kuala Lumpur.

Gupta, G., Parihar, S.S., Ahirwar, N.K., Snehi, S.K., & Singh, V. 2015. Plant Growth Promoting Rhizobacteria (PGPR): Current and Future Prospects for Development of Sustainable Agriculture. *Journal of Microbial & Biochemical Technology*, 07(02), 96–102

Han, Y., Wang, Z., Liu, C., Liu, X., Zhao, X., & Wu, Y. (2019) 'Disruption of the pleiotropic gene *scoC* causes transcriptomic and phenotypical changes in *Bacillus pumilus* BA06', *BMC Genomics*, 20(1), p. 641.

Hartati, F. K. 2016. Evaluasi metode pengujian angka lempeng total menggunakan metode *Petrifilm Aerobic Count Plate* terhadap metode uji SNI 01.2332.3-2006 pada produk perikanan di LPPMHP Surabaya. *Jurnal Teknik Industri Heuristic*, 13(2), 89-105.

Holm, L. G., Plucknett, D. L., & Pancho, J. V. 2010. *Mikania vine in Far North Quensland*. IPPC Official Post Report. FAO.

Holt, J.G., Krieg, N.R., Sneath, P.H.A., Staley, J.T. and Williams, S.T. 1994. *Bergey's Manual of Determinative Bacteriology*. 9th ed. Williams & Wilkins.

Baltimore.

Jufri, R. F. 2020. Microbial Isolation. *Journal La Lifesci*, 1(1), 18-23.

Kalam, S., Das, S. N., Basu, A., & Podile, A. R. 2017. Population densities of indigenous Acidobacteria change in the presence of plant growth promoting rhizobacteria (PGPR) in rhizospere. *Journal of Basic Microbiology*, 57(5), 376-385.

Kalpana, B. J., & Pandian, S .K., 2014. Halotolerant, acid–alkali stable, chelator resistant and raw starch digesting α-amylase from a marine bacterium *Bacillus subtilis* S8–18. *Journal of Basic Microbiology*, 54(8), 802–811.

Kumar, K. V, Singh, N., Behl, H., & Srivastava S. Influence of plant growth promoting bacteria and its mutant on heavy metal toxicity in *Brassica juncea* grown in fly ash amended soil. *Chemosphere*, 72(4), 678–683.

Lestari, S. M., Soedradjad, R., Soeparjono, S., & Setiawati, T. C. 2019. Aplikasi bakteri pelarut fosfat dan rock phosphate terhadap karakteristik fisiologi tanaman tomat (*Solanum lycopersicum* L.) *Jurnal Bioindustri*, 2(1), 319-333.

Logan, N.A. and De Vos, P. 2009. Genus *Bacillus*. In: P. De Vos, G.M. Garrity, D. Jones, N.R. Krieg, W. Ludwig, F.A. Rainey, K.H. Schleifer and W.B. Whitman (Eds). *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 3. pp. 21–128. Springer. New York.

Madigan, M.T., Martinko, J.M., Bender, K., Buckley, D. and Stahl, D. 2014. *Brock Biology of Microorganisms*. 14th ed. Pearson Benjamin Cummings. San Francisco.

Marista, E., Khotimah, S., & Linda, R. (2013). Bakteri Pelarut Fosfat Hasil Isolasi dari Tiga Jenis Tanah Rizosfer Tanaman Pisang Nipah (*Musa paradisiaca* var . nipah) di Kota Singkawang. *Protobiont*, 2(2), 93–101.

Memood, U., Muhammad, I. U. H., Muhammad, S. Adeela, S. Farooq, A., & Sikandar, H. 2018. A brief review on plant growth promoting rhizobacteria (PGPR): A key role in plant growth promotion. *Plant Protection*, 2(2), 77-82.

Mohamed, E. A. H., Farag, A. G., & Youssef, S. A. (2018). Phosphate solubilization by *Bacillus subtilis* and *Serratia marcescens* isolated from tomato plant rhizosphere. *Journal of Environmental Protection*, 9(3), 266–277.

Mursyida, E. 2015. Isolasi dan Identifikasi Populasi Mikroba Pelarut Fosfat dan P Tersedia pada Rizosfer Beberapa Umur dan Jarak dari Pusat Perakaran Jagung (*Zea mays* L.) *Jurnal Tanah Trop*, 13(2), 123-130.

Nagaraju, S., Ramesh, K., Prasad, T.N.V.K.V., Subramanyam, G., & Gopal, R. 2021. Exploration of the potential of *Bacillus* spp. isolated from rhizosphere soil for plant growth promotion. *Legume Research*, 44(10), 1201–1207.

Nasahi, H.C. 2010. *Peran Mikrob dalam Pertanian Organik*. Fakultas Pertanian, Universitas Padjadjaran, Bandung

Nishihara, T. & Freese, E. 1975. Motility of *Bacillus subtilis* during growth and sporulation. *Journal of Bacteriology*, 123(1), 366–371.

Oleńska, E., Małek, W., Wójcik, M., Swiecicka, I., Thijs, S., & Vangronsveld, J. 2020. Beneficial features of plant growth-promoting rhizobacteria for improving plant growth and health in challenging conditions: a methodical review. Science of the Total Environment, 743(5), Article 140682.

Oliveira-Longatti, S. M., Marra, L. M., Carvalho, T. S., & Moreira, F. M. S. 2020. The culture medium and the inoculation method should be considered in semi-quantitative screening of calcium phosphate solubilization by bacteria. *Acta*

Scientiae Agronomica, 42(1), Article ee44332.

Orr, S. P., Rudgers, J. A., Clay, K. 2005. Invansive plants can inhibit native tree seedling: testing potential allelopathic mechanism. *Plant Ecology*, 1(8), 153-165.

Panggabean, E. 2012. *Buku Pintar Kopi*. Jakarta: Agro Medika Pustaka.

Parmar, P. and Sindhu, S.S., 2022. Plant growth promoting bacteria (PGPB)-induced plant adaptations to stresses: an updated review. *PeerJ*, 10, p.e13452.

Patrick, J. E., & Kearns, D. B. 2009. Laboratory strains of *Bacillus subtilis* do not exhibit swarming motility. *Journal of Bacteriology*, 191(22), 7129–7133.

Pukhramban, N. 2019. Comparison of original gram stain and its modification in the gingival plaque sample. *Journal of Bacteriology & aMycology*, 7(1), 1-3.

Puspitawati, M. D., Sugiyanta, & Anas, I. 2014. Pemanfaatan mikroba pelarut fosfat untuk mengurangi dosis pupuk P anorganik pada padi sawah. *Indonesian Journal of Agronomy*, 4(13), 188-195.

Reyes, I., Valery, A., & Valduz, Z. (2007). First International Meeting on Microbial Phosphate Solubilization. *First International Meeting on Microbial Phosphate Solubilization*

Sagala, Y., Hanafiah, A. S., & Razali. 2013. Peranan mikoriza terhadap pertumbuhan, serapan P dan Cd tanaman sawi (*Brassia juncea* L.) serta kadar P dan Cd Andisol yang diberi pupuk fosfat alam. *Jurnal Online Agrokoteknologi*, 2(1), 487-500.

Sankaran, K. V. 2008. H. B. K. *Mikania micrantha Invasive Pest Fact Sheet*. APFSIN.

Santoyo, G., Urtis-Flores, C. A., Loeza-Lara, P. D., Orozco-Mosqueda, M. C., & Glick, B. R. 2021. Rhizosphere colonization determinants by plant growth-promoting rhizobacteria (PGPR). *Biology, 10*(6), 475.

Saragih, A. B. 2013. Skrining Bakteri Pelarut Fosfat Adaptif Vinasse dari Lahan Tebu Pabrik Gula Jatiroto Kabupaten Lumajang Jawa Timur. Skripsi. Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Jember. Jember.

Siahaan, C. D., Sitawati, & Heddy, Y. B. S. (2019). Uji Efektifitas Pupuk Hayati pada Tanaman Cabai Rawit *(Capsicum frutescens L.)*. *Jurnal Produksi Tanaman*, 6(9).

Simpson, W. J., & Stewart, G. S. A. B. 1994. The anaerobic life of *Bacillus subtilis*: cloning of the genes encoding the respiratory nitrate reductase system. *Journal of Bacteriology*, 176(19), 6192–6199.

Slepecky, R.A. and Hemphill, H.E. 1992. The genus *Bacillus* – nonmedical. In: A. Balows, W.J. Hausler, K.L. Herrmann, H.D. Isenberg and H.J. Shadomy (Eds). *Manual of Clinical Microbiology*. 6th ed. pp. 217–233. ASM Press. Washington, D.C.

Soerjani, M. A. 1987. *Weeds of Rice in Indonesia*. Balai Pustaka. Jakarta.

Stein, T. 2020. *Bacillus subtilis* antibiotics: structures, syntheses and specific functions. *Molecular Microbiology*, 56(4), 845–857.

Suliasih, Widawati, S., & Muharam, A. 2010. Aplikasi pupuk organik dan bakteri pelarut fosfat untuk meningkatkan pertumbuhan tanaman tomat dan aktivitas mikroba tanah. *Jurnal Hortukultura*, 20(3), 241-246.

Sumarsih, S. 2003. *Mikrobiologi Dasar*. Diktat Kuliah, Fakultas Pertanian UPN Veteran. Yogyakarta.

Tjitrosoedirdjo, S. S. 2005. Inventory of the invasive alient plant species in Indonesia. *Biotropia*, 2(5), 60-73.

Tittsler, R. P., & Sandholzer, L.A., 1936. The use of semi-solid agar for the

detection of bacterial motility. *Journal of Bacteriology*, 31(6), pp.575–580

Utami, S., Seprita, L., & Muhammad, R. 2021. Isolasi dan Karakterisasi Bakteri Pelarut Fosfat pada Berbagai Lokasi. *Jurnal Agrotela*. 1(1), 33-42.

Vidilaseris, K., Hidayat, K., Retnoningrum, D. S., Nurachman, Z., Noer, A. S. & Natalia, D., 2009. Biochemical characterization of a raw starch degrading α-amylase from the Indonesian marine bacterium *Bacillus* sp. ALSHL3. *Biologia*, 64(6), 1047–1052.

Vejan, P., Abdullah, R., Khadiran, T., & Ismail, S., & Nasrullah B. A. 2016. Role of plant growth promoting rhizobacteria in agricultural sustainability-A review. *Molecules*, 21(5), 1-17.

Vessey, J.K. 2003. Plant Growth Promoting Rhizobakteria as Biofertilizers. *Plant and Soil*, 2(5), 571-586.

Wulandari, N., Mokhamad, I., & Robbana, S. 2019. Isolasi dan karakterisasi plant growth promoting rhizobacteria dari rizosfer kebun karet rakyat. *Dinamika Pertanian*, 5(3), 57-64.

Xie, H., Zhang, J., Wang, D., Liu, Y., Chen, Y., & Wei, X. 2013. Phenolic constituents from the roots of *Mikania micrantha* and their allelopathic effects. *Journal of Agricultural and Food Chemistry, 61*(48), 11612–11619.

Yasmin, F., Javaid, T., Ali, Q., Jamil, M., Raza, A., & Abbas, R. N., 2023. Catalase and urease activities of *Bacillus* strains enhance growth and stress tolerance in rice plants. *Catalysts*, 13(2), p.331.

Zhang, L. Y., Cao, H. L., Gregg, W. P. & Li, D. 2004. *Mikania micrantha* H.B.K. in China- an overview. *Weed Research*, 4(4), 42-49.

Zhou, D., Huang, X. F., Chaparro, J. M., Badri, D. V., Manter, D. K., Vivanco, J. M., & Guo, J. 2016. Root and bacterial secretions regulate the interaction between plants and PGPR leading to distinct plant growth promotion effects. *Plant and Soil*, 401(12), 259–272.