DAFTAR PUSTAKA

Abdel-Hamid, M. S., Fouda, A., El-Ela, H. K. A., El-Ghamry, A. A., & Hassan, S. E. D. 2021. Plant growth-promoting properties of bacterial endophytes isolated from roots of *Thymus vulgaris L*. and investigate their role as biofertilizers to enhance the essential oil contents. Biomolecular Concepts, 12(1), 175–196. https://doi.org/10.1515/bmc-2021-0019

Agustinus Mangungsong, Soemarsono, & Dan Fatardho Zudri. 2020. Pemanfaatan Mikroba Tanah dalam Pembuatan Pupuk Organik serta Peranannya terhadap Tanah Aluvial dan Pertumbuhan Bibit Tanaman Kakao. Jurnal Agronomi Indonesia (Indonesian Journal of Agronomy), 47(3), 318–325. https://doi.org/10.24831/jai.v47i3.24721

Ahemad, M., & M. Kibret. 2014. Mechanism and applications of plant growth promoting Rhizobacteria: Current perspective. Journal of King Saud University – Science. 26: 1-20.

Alam, S., & Rashid, M. 2002. In vitro solubilization of inorganic phosphate by Phosphate Solubilizing Microorganisms (PSM) from Maize Rhizosphere. https://www.researchgate.net/publication/233815274

Alexander, M. 1977. Introduction of Soil Microbiology, John Wiley and Sons, Inc.

Alfiah, Zul, D., & Nelvia. 2016. Pengaruh inokulasi campuran isolat bakteri pelarut fosfat indigenus riau terhadap pertumbuhan dan produksi tanaman kedelai (*Glycine max L. Merr*). Jurnal Agroteknologi. 7(1): 7(1), 7–14.

Anhar, Hariati, & Advinda. 2018. Respon Hasil Tanaman Cabai (*Capsicum annum L*.) Terhadap Pemberian Pupuk Organik Cair. In Prosiding Seminar Nasional Pendidikan Biologi. 829–834.

Astawan, & M. Wresdiyati. 2004. Diet Sehat Dengan Makanan Berserat. Surakarta: Tiga Serangkai.

Belfield, Stephanie & Brown, & Christine. 2008. Field Crop Manual: Maize (A Guide to Upland Production in Cambodia). Canberra.

Bhattacharyya, C., Banerjee, S., Acharya, U., Mitra, A., Mallick, I., Haldar, A., Haldar, S., Ghosh, A., & Ghosh, A. 2020. Evaluation of plant growth promotion properties and induction of antioxidative defense mechanism by tea rhizobacteria of Darjeeling, India. Scientific Reports, 10(1). https://doi.org/10.1038/s41598-020-72439-z.

Boubekri, K., Soumare, A., Mardad, I., Lyamlouli, K., Hafidi, M., Ouhdouch, Y., & Kouisni, L. 2021. The screening of potassium-and phosphate-solubilizing actinobacteria and the assessment of their ability to promote wheat growth parameters. Microorganisms, 9(3), 1–16.

Boyer, P. D. 1997. The ATP synthase: a splendid molecular machine. Annu Rev Biochem. 66: 717-749.

Budianta Dedik. 2004. Pengaruh Pemberian Limbah Cair Pabrik Kelapa Sawit Untuk Pupuk Cair Terhadap Kualitas Air. Pengelolaan Lingkungan Dan SDA, 3(3), 147–154.

Cappucino, J. G., & Sherman. N. 2001. Microbiology: A Laboratory Manual. Edisi Kedua. New York: Benjamin Cummings Publishing Company.

Chen, C., Bauske, E., Musson, G., RodríguezKábana, R., & Kloepper, J. 1995. Biological control of *Fusarium* wilt on cotton by use of endophytic bacteria, Biol. Control 5:83–91.

Compants, B., Nowak, J., & Barka, E. 2005. Use of plant growth-promoting bacteria for biocontrol of plant diseases: Principles, mechanisms of action, and future prospects, Appl. Environ. Microbiol, 71:4951–4959.

Daebeler, A., Hefting, M. M., Bodelier, P. L., Yan, Z., Jia, Z., & Laanbroek, H. J. 2014. Interactions between Thaumarchaea, Nitrospira and methanotrophs modulate autotrophic nitrification in volcanic grassland soil. The ISME Journal, 8, 2397–2410.

Deliah Seswita. 2010. Som Jawa (*Talinum paniculatum*) Ginseng Indonesia Penyembuh Berbagai Penyakit. Warta Penelitian dan Pengembangan Pertanian. Warta Penelitian Dan Pengembangan, 16(2), 21–23.

Efendi, E. 2016. Implementasi Sistem Pertanian Berkelanjutan Dalam Mendukung Produksi Pertanian. Jurnal Warta Edisi: 47, ISSN: 1829-7463.

Fadiji, A. E., & Babalola, O. 2020. Exploring the potentialities of beneficial endophytes for improved plant growth. Dalam Saudi Journal of Biological Sciences (Vol. 27, Nomor 12, hlm. 3622–3633). Elsevier B.V. https://doi.org/10.1016/j.sjbs.2020.08.002.

Felestrino, érica B., Santiago, I. F., Freitas, L. da S., Rosa, L. H., Ribeiro, S. P., & Moreira, L. M. 2017. Plant growth promoting bacteria associated with Langsdorffia Hypogaea-Rhizosphere-Host biological interface: A neglected model of bacterial prospection. Frontiers in Microbiology, 8(FEB). https://doi.org/10.3389/fmicb.2017.00172.

Fouda, A. H., Hassan, S. E. D., Eid, A. M., & Ewais, E. E. D. 2015. Biotechnological applications of fungal endophytes associated with medicinal plant *Asclepias sinaica* (Bioss.). Annals of Agricultural Sciences, 60(1), 95–104. https://doi.org/10.1016/j.aoas.2015.04.001

Friska, A. 2019. Isolasi Bakteri Endofit Dari *Bruguiera* sp. Sebagai Sumber Senyawa Antibakteri. Repository. Fakultas Matematika Dan Ilmu Pengetahuan Alam Universitas Riau, Riau.

Ghorpade, S. M., Rajendra Gorwadkar, V., & Kharmate, A. V. 2023. Isolation of Endophytic Bacteria and Its Commercial Application as PGP for Sustainable Agriculture to Improve Crop Yield-0002-9518-285X.

Gundala, P. B., Chinthala, P., & Sreenivasulu, B. 2013. A new facultative alkaliphilic, potassium solubilizing, Bacillus Sp. SVUNM9 isolated from mica cores of Nellore District, Andhra Pradesh, India. Research and Reviews. J. Microbiol. Biotechnol., 2, 1–7.

Gusniwati, Fatia, & Arief. 2008. Pertumbuhan dan Hasil Tanaman Jagung Dengan Pemberian Kompos Alang-Alang. Jurnal Agronomi, 12(2), 23–27.

Hallman, J., W. F. Mahaffee, A. Q. Hallman, & J. W. Kloepper. 1997. Bacterial endophytes in agricultural crops. Can J Microbiol. 43: 895–914.

Hasanuzzaman, M., Bhuyan, M. H. M. B., Nahar, K., Hossain, M. S., Al Mahmud, J., Hossen, M. S., Masud, A. A. C., Moumita, & Fujita, M. 2018. Potassium: A vital regulator of plant responses and tolerance to abiotic stresses. Dalam Agronomy (Vol. 8, Nomor 3). MDPI AG.

Husen, E. 2009. Telaah Efektivitas Pupuk Hayati Komersial dalam Meningkatkan Pertumbuhan Tanaman. Prosiding. Seminar Dan Lokakarya Nasional Inovasi Sumber Daya Lahan. Bogor., 4(1), hlm. 105 – 117.

Idris, E. M. Talon, & R. Borriss. 2007. Tryptophan- Dependent Production of Indole-3-Acetic Acid (IAA) Affects Level of Plant Growth Promotion by *Bacillus amyloliquefaciens* FZB42. Molecular Plant- Microbe Interaction, 20 :619-626.

Ikeda S, Okubo T, & Anda M. 2010. Community-and genome-based views of plant-associated bacteria: plant-bacterial interactions in soybean and rice. Plant Cell Physiol.

Islamiati, A., & Zulaika E. 2015. Potensi Azotobacter sebagai Pelarut Fosfat. Jurnal Sains dan Pomits, 2(1): 2337-3520.

Joshi, P., & Bath. 2011. Diversity and Function of plant growth-promoting rhizobacteria associated with with wheat rhizosphere in North Himalaya Region. 16, 1135-1143.

Kabense, Riorifki, Elvy, Ginting, Stenly, Wullur, Nickson, Kawung, Fitje, Losung, Jhon, & Tombokan. 2019. Penapisan Bakteri Proteolitik yang Bersimbiosis dengan Alga *Gracillaria sp.* Jurnal Ilmiah Platax. 7(2): 7(2), 413–418.

Kapli, Wahyudi, & Husen. 2017. Pengaruh Rizobakteri Pemacu Tumbuh dan Toleran Kekeringan serta Kelimpahan dan Aktivitas Mikroba Tanah terhadap Tanaman Jagung (*Zea mays L*). Biospecies 10 (1): 25-36. Kurniawan, Sodikin. 2019. Mengenal Macam-Macam Morfologi Koloni.

Khaeruni, NirmalaT, & Siti Anima Hisein W., Gusnawaty G., Wijayanto T. & K. Sutariati G. A. 2020. Potensi dan Karakterisasi Fisiologis Bakteri Endofit Asal Tanaman Kakao Sehat sebagai Pemacu Pertumbuhan Benih Kakao. Jurnal Ilmu Pertanian Indonesia, 25(3), 388–395.

Khalil, A. M. A., Hassan, S. E. D., Alsharif, S. M., Eid, A. M., Ewais, E. E. D., Azab, E., Gobouri, A. A., Elkelish, A., & Fouda, A. 2021. Isolation and characterization of fungal endophytes isolated from medicinal plant *Ephedra pachyclada* as plant growth-promoting. Biomolecules, 11(2), 1–18. https://doi.org/10.3390/biom11020140

Khan, S. S., Verma, V., & Rasool, S. 2020. Diversity and the role of endophytic bacteria: a review. Botanica Serbica, 44(2), 103–120. https://doi.org/10.2298/BOTSERB2002103K

Kim, J. H., W. T. Kim, & B. G. Kang. 2001. Ascending migration of endophytic rhizobia, from roots to leaves, inside rice plants and assessment of benefits to rice growth physiology. Plant Cell Physiol, 42(10): 1056-1061.

Knief, C. 2014. Analysis of plant microbe interactions in the era of next generation sequencing technologies. Frontiers in Plant Science.

Kovavcs, K. 2009. Applications of Mossbauer Spectroscopy in Plant Physiology. ELTE Chemistry Doctoral School, ELTE Institute of Chemistry, Budapest. Disertasi.

Kuklinsky-Sobral, J., Araujo, W. L., Mendes, R., Geraldi, I. O., Pizzirani-Kleiner, A. A., & Azevedo, J. L. 2004. Isolation and characterization of soybean-associated bacteria and their potential for plant growth promotion. Environmental Microbiology, 6(12), 1244–1251.

Laili, N., & D. Agustiyani. 2016. Karakterisasi dan uji aktivitas biokontrol bakteri endofit dari Lombok terhadap kapang patogen *Fusarium oxysporum f.sp. lycopersici.* Prosiding Seminar Nasional II. Lembaga Ilmu Pengetahuan Indonesia, Malang. 707–717.

Leveau, J. H. J., & S.E. Lindow. 2005. Utilization of the Plant Hormone Indole-3-Acetic Acid for Growth by Pseudomonas putida Strain 1290. Applied and Environmental Microbiology, 2365–2371.

Manik, V. T., Nurcahya, I., Suhardjadinata, & Setiaramdani, S. 2022. Isolasi dan Karakterisasi Mikroorganisme Endofit Akar Ginseng Jawa (*Talinum paniculatum* Gaertn.) yang Diberi Perlakuan Perbedaan Ketersediaan Air. Biotropic The Journal of Tropical Biology, Vol.7 No.1.

Martinez M, Gómez-Cabellos S, Giménez MJ, & Barro F, D. I. D.-M. M. 2019. Plant Proteases: From Key Enzymes in Germination to Allies for Fighting Human Gluten-Related Disorders. Front Plant Sci. doi: 10.3389/fpls.2019.00721. PMID: 31191594; PMCID: PMC6548828.

Maghfoer, R Soelistyono, & N Herlina. 2018. Growth and yield of eggplant (*Solanum melongena L.*) on various combination of N-sources and number of main brach. AGRIVITA, 36(3), 285–294.

Mehrab YH, Rahmani A, Noormohammadi G, & Ayneband A. 2010. Plant growth promoting rhizobacteria increase growth, yield and nitrogen fixation in *Phaseolus vulgaris*. Journal of Plant Nutrition, 33(12), 1733–1743.

Morales-Cedeño, L. R., Orozco-Mosqueda, M. del C., Loeza-Lara, P. D., Parra-Cota, F. I., de los Santos-Villalobos, S., & Santoyo, G. 2021. Plant growth-promoting bacterial endophytes as biocontrol agents of pre- and post-harvest diseases: Fundamentals, methods of application and future perspectives. Dalam Microbiological Research (Vol. 242). Elsevier GmbH. https://doi.org/10.1016/j.micres.2020.126612

Muhadjir. 2018. Karakteristik Tanaman Jagung. Balai Penelitian Tanaman Pangan Bogor, 13, 33–48. http://balitsereal.litbang.pertanian.go.id.

Munif, A., & A. Hipi. 2011. Potensi Bakteri Endofit Dan Rizosfer Dalam Meningkatkan Pertumbuhan Jagung. Seminar Nasional Serealia. Institute Pertanian Bogor, 1–8.

Murthi, R. S. 2015. Potensi Bakteri Endofit dalam Meningkatkan Pertumbuhan Tanaman Tembakau yang Terinfeksi Nematoda Puru Akar (*Meloidogyne spp.*). J. Agroteknologi, 4(1): 1881-1889.

Nababan, Sahrial, & Sari. 2018. Pengaruh Suhu Pemanasan terhadap Rendemen dan Mutu Minyak Biji Kemiri (*Aleurites moluccana*) dengan Metode Maserasi menggunakan Pelarut Heksana. Seminar Nasional Fakultas Pertanian Universitas Jambi, pp. 368–376.

Paeru, & Dewi. 2017. Panduan Praktis Budidaya Jagung. Penebar Swadaya. Jakarta. 20–22.

Pambudi, Susanti, & Priambodo. 2017. Isolasi dan Karakterisasi Bakteri Tanah Sawah di Desa Sukawali dan Desa Belimbing, Kabupaten Tangerang. Journal of Biology, 10(2), 1–9.

Pecoraro, L., Wang, X., Shah, D., Song, X., Kumar, V., Shakoor, A., Tripathi, K., Ramteke, P. W., & Rani, R. 2022. Biosynthesis Pathways, Transport Mechanisms and Biotechnological Applications of Fungal Siderophores. Dalam Journal of Fungi (Vol. 8, Nomor 1). MDPI. https://doi.org/10.3390/jof8010021

Pedraza, R. O., A.R. Mata, M.L. Xiqui, & B.E. Baca. 2004. Aromatic amino acid aminotransferase activity and indole-3-acetic acid production by associative nitrogen-fixing bacteria. FEMS Microb, 233:15-21.

Penelitian, B., Pemanis, T., Serat, D., Raya, J., & Pos, K. K. 2013. Pemanfaatan Endofit Sebagai Agensia Pengendali Hayati Hama dan Penyakit Tanaman The use of Endophytes as Biocontrol Agents for Pests of Crops Titiek Yulianti. Dalam Buletin Tanaman Tembakau, Serat & Minyak Industri (Vol. 5, Nomor 1).

Pham, T., Cho, C. W., & Yun, Y. S. 2010. Environmental fate and toxicity of ionic liquids: A review Water Research Volume 44, Issue 2. 352–372.

Prajapati, K., Sharma, M. C., & Modi, H. A. 2013. Growth promoting effect of potassium solubilizing microorganisms on okra (*Abelmoschus esculentus*) Growth Promoting Effect Of Potassium Solubilizing Microorganisms On Okra (*Abelmoscus Esculantus*).

Prasad, R., & Power, J. F. 1997. Soil Fertility Management for Sustainable Agriculture. New York: Lewis Publishes.

Prasetyowati., Permatasari, K., & Pesantri, H. 2021. Ekstraksi Pektin dari Kulit Mangga. J. Teknik Kimia, 4(16), 42–49.

Pulungan, A. S. 2015. PemanfaatanMikroorganisme dalam BioremediasiSenyawa Pencemar. Jurnal Biosains. 1(1), 75–84.

Radji, M. 2005. Peranan Bioteknologi Dan Mikroba Endofit Dalam Pengembangan Obat Herbal. Majalah Ilmu Kefarmasian, 2(3), 113–126. https://doi.org/10.7454/psr.v2i3.3388

Rahmaniar, D. 2013. Penelusuran Potensi Mikroba Endofit Dari Rimpang Paku Kepala Tupai (*Drynaria quercifolia J. Smith*) Sebagai Penghasil Senyawa Antibiotika. As-Syifaa, 05(02), 128–139.

Rahni. 2012. Efek Fitohormon PGPR Terhadap Pertumbuhan Tanaman Jagung (*Zea mays*). Universitas Haluoleo Press: Kendari.

Riwandi, Handajaningsih, & Hasanudin. 2014. Teknik Budidaya Jagung dengan Sistem Organik di Lahan Marjinal. Bengkulu. UNIB Press.

Rizaldi R. 2018. Isolasi dan Karakterisasi Bakteri Proteolitik yang Berasosiasi dengan Lamun Enhalus acoroides di Pantai Bama, Taman Nasional Baluran, Situbondo, Jawa Timur. Skripsi. Universitas Airlangga Surabaya.

Rodriguez, H., & Fraga. 1999. Phosphate solubilizing bacteria and their role in plant growth promotion. Biotechnology Advances. 17: 319-339.

Rotua Silitonga, L., & Effendi, I. 2019. Isolation, Identification And Sensitivity Of Amilolitic Bacteria From Mangrove Ecosystem Sediment In Purnama Marine Station Dumai On The Pathogenic Bacteria. Dalam Asian Journal of Aquatic Sciences (Vol. 2, Nomor 3).

Saridewi, L. P., Prihatiningsih, N., & Djatmiko, H. A. 2020. Karakterisasi biokimia bakteri endofit akar terung sebagai pemacu pertumbuhan tanaman dan pengendali penyakit layu bakteri in planta. Jurnal Proteksi Tanaman Tropis, 1(1), 1. https://doi.org/10.19184/jptt.v1i1.15579

Sari, N. 2020. Review of Endophytic Fungi as Biocontrol Agents Against Plant Pathogen. Gontor AGROTECH Science Journal, 6(1), 55. https://doi.org/10.21111/agrotech.v6i1.3734

Satwika, Yulianti, D., & Hikam, A. 2021. Karakteristik dan Potensi Enzimatis Bakteri Asal Tanah Sampah Dapur dan Kotoran Ternak sebagai Kandidat Agen Biodegradasi Sampah Organik. Al-Hayat. Journal of Biology and Applied Biology, 4(1), 11–18.

Septiani, T., Zul, D., & Isda, M. N. 2014. Uji efektifitas bakteri pelarut fosfat penghasil asam sianida asal tanah gambut Riau dalam mengendalikan gulma dominan pada tanaman kelapa sawit. JOM FMIPA.

Shokri, D., & Emtiazi G. 2010. Indole-3 acetic acid (IAA) production in symbiotic and nonsymbiotic nitrogen-fixing bacteria and its optimization by Taguchi Design. Curr Microbiol, 61: 217 – 225.

Siddiqui, Z. A. 2005. PGPR: Prospective Biocontrol Agents of Plant Pathogens. Springer. Netherlands.

Silva, K., R. S. A. Nobrega, A. S. Lima, A. Barberi, & F. M. S. Moreira. 2011. Density and diversity of Diazotrophic bacteria isolated from Amazonian soils using N-free semi-solid media. Sci. Agric. 68(5): 518-525.

Song, Nio Ai, & Patricia. 2013. Karakter Morfologi Akar sebagai Indikator Kekurangan Air pada Tanaman. Jurnal Bioslogos, 31.

Sudewi, A Ala, Patandjengi, & M Farid. 2020. Isolation of phosphate solubilizing bacteria from the rhizosphere of local aromatic rice in Bada Valley Central Sulawesi, Indonesia. IOP Conf. Series: Earth and Environmental Science.

Strobel, G. A., & B. Daisy. 2003. Bioprospecting for microbial endophytes and their natural products. Microbiol. and Mol. Biol. Rev, 67(4): 491-502.

Subekti, Syafruddin, R., Efendi, & S. Sunarti. 2008. Morfologi Tanaman dan Fase Tanaman Jagung. Balai Penelitian Tanaman Serealia. 16–28.

Sulawesi Selatan, D., Parawansa, A. K., & Saida, dan. 2020. Analisis Residu Pestisida Pada Buah Tomat "Analysis of pesticid residues in tomatoIn south sulawesi" (Vol. 4, Nomor 1).

Suprapto, & Marzuki. 2005. Botani Tanaman Jagung. Sumatera Utara: Universitas Sumatera Utara Press.

Susanti, E., Tirta Ayu Paramitha, S., Lutfiana, N., Rini Retnosari, dan, & Kimia Fakultas Matematika dan Ilmu Pengetahuan Alam, J. 2021. Seleksi Bakteri Proteolitik dari Pangan Fermentasi Lokal Indonesia sebagai Sumber Protease untuk Produksi Kolagen.

Susanti, Y., Giyanto, Sinaga, M. S., Mutaqin, K. H., & Tjahjono, B. 2021. The potential of endophytic bacteria from the root of eucalyptus pellita as a biocontrol agent against ralstonia solanacearum. Biodiversitas, 22(6), 3454–3462. https://doi.org/10.13057/biodiv/d220654

Sutoro, Soelaiman, & Iskandar. 1998. Budidaya Tanaman Jagung. Pusat Penelitian dan Pengembangan Tanaman Pangan. Bogor.

Suyanto, E., Lisdiyanti, P., Financia Gusmawati, N., & Rahayu, W. 2012. Isolation and characterization of cellulose produced by cellulolytic bacteria from peat soil of Ogan Komering Ilir, South Sumatera Biogrouting View project microbiota View project Isolation and Characterization of Cellulase Produced by Cellulolytic Bacteria from Peat Soil of Ogan Komering Ilir, South Sumatera. International Journal of Environment and Bioenergy Int. J. Environ. Bioener, 2012(3), 145–153.

Taiz, L. 2002. Plant Physiology. Sinauer Associates, Sunderland.

Tan, R. X., & Zou, W. X. 2001. Endophytes: A Rich Source Of Functional Metabolites. Institute of Functional Biomolecule, School of Life Sciences, Nanjing University.

Tistama, R., & Dalimunthe, C. I. 2017. Peran Mikroba Endofitik Pada Biji Karet (*Hevea brasiliensis*) Terhadap Perkecambahan Dan Pertumbuhan Awal Tanaman. Warta Perkaretan, 36 (2), 147–158.

Utami S. H, Indriana R, & Putri M A. 2017. Antibacterial Activity of Endophytic Fungi Isolated from *Talinum paniculatum* (Jag.) Gaertn. Annual Basic Sci International.

Vionita, Y., Sri Rahayu, & Lisdiana, L. 2015. Potensi Isolat Bakteri Endofit dari Akar Tanaman Ubi Jalar (*Ipoema batatas*) Dalam Penambatan Nitrogen. LerteraBio, 4(2), 124–130.

Voragen, Coenen, & Verhoef. 2009. Pectin, a versatile polysaccharide present in cell walls. Struct Chem. 20, 263–275.

Waqas, M., Khan, A. L., Kamran, M., Hamayun, M., Kang, S. M., Kim, Y. H., & Lee, I. J. 2012. Endophytic fungi produce gibberellins and indoleacetic acid and promotes host-plant growth during stress. Molecules, 17(9), 10754–10773. https://doi.org/10.3390/molecules170910754

Yadav A, & Aggarwal A. 2015. The Associative Effect of Arbuscular Mycorrhizae with Trichoderma viride and *Pseudomonas fluorescens* in Promoting Growth, Nutrient Uptake and Yield of *Arachis hypogaea*. New York Science Journal, 8(1), 101–108.