

DAFTAR PUSTAKA

- Ahmad, F., I. Ahmad, and M.S. Khan. 2005. Indole Acetic Acid Production by the Indigenous Isolats of *Azoto-bacter* and *Fluorescent Pseudomonas* in the Presence and Absence of Tryptophan. *Turkish Journal of Bio-logy* 29: 29-34.
- Akhtar MJ, Asghar HN, Shahzad K, Arshad M. 2009. Role of plant growth promoting rhizobacteria applied in combination with compost and mineral fertilizers to improve growth and yield of wheat (*Triticum aestivum* L.). *Pak. J. Bot.*, 41(1): 381-390.
- Azcon, R. & J.M. Barea. 1975. Synthesis of Auxins, Gibberellins and Cytokinins by *Azotobacter vinelandii* and *Azotobacter beijerinckii* Related to Effects Produced on Tomato Plants. *Plant and Soil*. 43: 609-619
- Balai Besar Pengkajian dan Pengembangan Teknologi Pertanian., 2013. *Teknologi Budidaya Kelapa Sawit*. Badan Penelitian dan Pengembangan Pertanian. Lampung.
- Barea, J. M., E. Navarro, and E. Montoya. 1976. Production of plant growth regulators by rhizosphere phosphate solubilizing bacteria. *J. Appl. Bacteriol.* 40: 129-13.
- Barka, A.B., S. Gognies, J. Nowal, J.C. Audran, A. Belarbi . 2002. Inhibitory effect of endophyte bacteria on *Botrytis cinerea* and its influence to promote the grapevine growth. *Biological Control* 24 :135-142.
- Bonni TY dan Choo. 2000. Valuable minor constituents of commercial red palm sterols. *JOi/PalmResarch*. 12: 14-24.
- BPS Provinsi Jambi . 2015. *Jambi Dalam Angka*. Badan Pusat Statistik Provinsi Jambi. Jambi. 708 hlm.
- BPS. Badan Pusat Stasistik, 2015. *Komoditas Indonesia*. Jakarta.
- Bruehl, G.W. 1987. *Soilborne Plant Pathogens*. MacMillan Publ. Co. Canada.
- Cattelan, A.J., P.G Hartel,. and J.J Fuhrmann,. (1999) *Soil Science Society of America Journal*, 63, 1670–1680.
- Cattelan, A.J., P.G. Hartel dan J.J. Fuhrmann. 1999. Screening for Plant Growth–Promoting Rhizobacteria to Promote Early Soybean Growth. *Soil Sci. Soc. Am. J.*6(3). P : 1670–1680.
- Ceson, R., F.J.G. Manero, A. Probanza, B. Ramos, J.A.L. Garcia. 2005. Effects of two plant growth promoting rhizobacteria on the germination and growth of pepper seedlings (*Capsicum annuum*) cv. Roxy.

[http://taylorandfrancis.metapress.com/app/home/contribution.asp?waspp\[1 Feb 2005\]](http://taylorandfrancis.metapress.com/app/home/contribution.asp?waspp[1 Feb 2005])].

- Damayanti Dwi N., Rini V.M., dan Evizal Rusdi. 2014. Respon Pertumbuhan Kelapa Sawit Bibit (*Elaeis guineensis* Jacq.) Terhadap Jenis fungi mikoriza arbuskula pada Dua Tingkat Pemupukan NPK. *Jurnal Penelitian Pertanian Terapan* Vol. 15 (1): 33-40
- Darmosarkoro, W., Akiyat., Sugiyono., dan E.S. Sutarta. 2008. Pembibitan Kelapa Sawit. CV Mitra Karya. Medan. Indonesia. 51 hal.
- Dewi, I.R. 2008. Peranan dan Fungsi Fitohormon bagi Pertumbuhan Tanaman. Fakultas Pertanian. Universitas Padjajaran. Bandung.
- Dinas Perkebunan Provinsi Jambi. 2010. Rencana Strategis 2006-2010 Provinsi Jambi. Dinas Perkebunan Provinsi Jambi, Jambi.
- Djordjevic, J, Scepan, I & Glisic, B. 1987. Application of occlusal indices in Orthodontic Practice". Vol.56, no.4, pp.176-9.
- Döbereiner, J., and J.M. Day. 1976. Associative symbioses in dinitrogen fixing sites. p.518-538. In W.E. Newton, and C.J. Nyman. Proc. 1 st Int. Symp. Nitrogen Fixation. Washington State University Press.
- Dodds, H.J. & L.W. Roberts (1995). Experiments in Plant Tissue Culture. Cambridge University Press. 255.
- Effendy, Onong Uchjana. 1989. *KAMUS KOMUNIKASI*. Bandung : PT.Mandar Maju.
- Ernita, M., Nasrun, dan N. Suharti, 2010. Karakterisasi Respon Fisiologis Tanaman Bawang Merah yang Diinduksi dengan rhizobakteri indigenos. *J. Embrio*. 30 : 2. 110 – 116.
- Fahn, A. 1995. *Anatomi Tumbuhan*. Edisi ketiga. Gajah Mada University Press. Yogyakarta.
- Fajria, D. 2015. Pengaruh Pemberian Rhizobakteri Indigenos Terhadap Pertumbuhan Stum Mata Tidur Okulasi Hijau Pada Tanaman Karet (*Hevea brasiliensis* Muell.Arg). Skripsi. FAPERTA. Prodi Agroekoteknologi. Universitas Andalas Padang.
- Fauzi Y, Widyastuti YE, Satyawibawa I, dan Hartono R. 2006. *Kelapa Sawit B.udi Daya, Pemanfaatan Hasil dan Limbah, Ana/isis Usaha dan Pemasaran*. Jakarta. Penebar Swadaya.
- Feng, Y., D. Shen, & W.Song. 2006. Rice endophyte *Pantoea agglomerans* YS19 promotes host plant growth and effects allocations of host photosynthates. *Journal Applied Microbiology*, 100: 938-945.

- Fitter, A.H. dan R.K.M. Hay. 1998. Fisiologi Lingkungan Tanaman. Yogyakarta: Gadjah Mada University Press.
- Food and Nutrition Board. 2000. Dietary References Intakes for Vitamin C, Vitamin E, *Selenium*, and Carotenoids. Washington. National Academy Press
- Frommel, M.I., J. Nowak, Lazarovita. 1991. Growth Enhancement and Developmental Modifications of in Vitro Grown Potato (*Solanum tuberosum ssp. Tuberosum*) as Affected by a *Nonfluorescent Pseudomonas* sp. Plant Physiol. 96: 928-936.
- GAPKI. 2013. Dinamika Dan Transformasi Industri Minyak Sawit Indonesia. Jakarta.
- Glick, B.R. 1995. *The enhancement of plant growth by free-living bacteria. Can. J. Microbiol.* 4: 109-117.
- Harahap OH. 2011. Efektifitas pemberian kompos Tandan Kosong Kelapa sawit dan Cendawam *Mikoriza Arbuskula* Pada Tanaman Gaharu. Diakses pada tanggal 8 Juni 2012.
- Harjadi, S.S. 1991. Pengantar Agronomi. Gramedia. Jakarta. Hartus, T. 2002. Berkebun Hidroponik Secara Murah. Penebar Swadaya. Jakarta.
- Hasanudin. 2003. Peningkatan ketersediaan dan serapan N dan P serta hasil tanaman jagung melalui inokulasi *mikoriza*, *azotobacter* dan bahan organik pada ultisol. Jurnal Ilmu Pertanian Indonesia. 5(2): 83-89.
- Hindersah, R dan Tualar Simarmata. 2004. Potensi Rhizobakteri *Azotobacter* dalam Meningkatkan Kesehatan Tanah. Fakultas Pertanian. Universitas Padjadjaran. Bandung. Jurnal natur Indonesia
- Imas, T., S.H. Ratna, W.G. Agustin., dan Y. Setiadi. 1989. Mikrobiologi Tanah. Bahan Pengajaran. Departemen Pendidikan Dan Kebudayaan Direktorat Jenderal Perguruan Tinggi. Pusat Antar Universitas Bioteknologi IPB. Yogyakarta. 178 hlm.
- Karlidag, H., Ertam Y., Metin T., Mucahit dan P. Figen D. 2013. Plant Growth-promoting Rhizobacteria Mitigate Deleterious Effects of Salt Stress on Strawberry Plants. Hortscience 4(5):563–567. 2013.
- Kasutjaningati, R. Poerwanto, Widodo, N. Khumaida, D. Efendi. 2010. Pengaruh Bakteri Endofit terhadap Multiplikasi Tunas Pisang Rajabulu secara *In-vitro*. Agriplus. Vol 20 :227-232.
- KetarenS. 2005. Minyak dan Lemak Pangan. Jakarta. Universitas Indonesia Press.

- Khalid A, Arshad M, Zahir ZA. 2003. Screening plant growth promoting rhizobacteria for improving growth and yield of wheat. *J Appl Microbiol.* 96: 473-480.
- Khaswarina, S., 2001. Jurnal Natur Indonesia Keragaman Bibit Kelapa Sawit Terhadap Pemberian Berbagai Kombinasi Pupuk di Pembibitan Utama. Fakultas Pertanian Universitas Sumatera Utara
- Kishore, G.K., S. Pande, and A.R. Podile. 2005. Phylloplane bacteria increase seedling emergence, growth and yield of field –grown groundnut (*Arachis hypogaea* L.)[http:// www.blackwell–synergi. Com/doi /abs](http://www.blackwell-synergi.com/doi/abs).
- Klement , Z., Rudolph, K dan Sands, D.C. 1990. Inoculation Of Plant Tissue. Methods in Phytobacteriology. Akademiai Kiado. Budapest
- Kloepper, J.W. 1993. Plant growth promoting rhizobacteria as biological control agents. p. 255-274. *In* F.B. Meeting, Jr. (Ed.). Soil Microbial Ecology, Applications in Agricultural and Environmental Management. Marcel Dekker, Inc. New York.
- Kloepper, J.W. 1993. Plant growth promoting rhizobacteria as biological control agents. p. 255-274. *In* F.B. Meeting, Jr. (Ed.). Soil Microbial Ecology, Applications in Agricultural and Environmental Management. Marcel Dekker, Inc. New York.
- Kloepper, J.W., W. Mahaffee, J.A. Mcinroy, and P.A. Backman. 1991. Comparative analysis of isolation methods for recovering rootcolonizing bacteria from roots. p. 252-255. *In* C. Keel, B. Koller, and G. Defago (Eds.). Plant Growth-Promoting Rhizobacteria – Progress and Prospects. The Second International Workshop on PGPR. Interlaken, Switzerland, October 14-19, 1990.
- Kloepper, JW, Lifshitz R, Zablutowicz RM. 1989. Free living bacterial inocula for enhancing crop productivity, *Trends Biotechnol* 7:39-43.
- Lakitan, B. 1996. Fisiologi Pertumbuhan dan Perkembangan Tanaman. PT Raja Grafindo Persada. Jakarta.
- Lakitan, B. 2007. Dasar-Dasar Fisiologi Tumbuhan. Raja Grafindo Persada, Jakarta.
- Lakitan, B. 2012. Dasar-dasar Fisiologi Tumbuhan. Raja Grafindo Persada. Jakarta. 203 Hal.
- Lakitan. B. 2001. Dasar-dasar Fisiologi Tumbuhan. Rajawali Pers. Jakarta.
- Legitan, 2012. Kelapa Sawit. CV Yasaguna. Jakarta.
- 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.* 71 (5): 2365-2371.

- Lifshitz, R., J.W. Kloepper, M. Kozlowski, C. Simonson, J. Carlson, E.M. Tipping, and I. Zaleska. 1987. Growth promotion of canola (rapeseed) seedlings by a strain of *Pseudomonas putida* under gnotobiotic conditions. *Can. J. Microbiol.* 33: 390-395.
- Lines-Kelly, R. 2005. Defend the Rhizosphere and Root Against Pathogenic Microorganisms. <http://ice.agric.uwa.edu.au/soils/soilhealth>.
- Loper JE, Scroth MN. 1986. Influence of bacterial sources of *indole-3-acetic acid* on root elongation of sugar beet. *Phytopatology* 76: 386-389.
- Lubis, A.U. 1992. Kelapa Sawit (*Elaeis guineensis* Jacq). di Indonesia. Bandar Kuala, Pusat Penelitian Kelapa Sawit.
- Maunuksela, L. 2004. Molecular And Physiological Characterization Of Rhizosphere Bacteria And Frankia In Forest Soils Devoid of Actinorhizal Plants. *Dissertationes Biocentri Wikki Universitatis Helsingiensis*. <http://ethesis.Helsinki.fi/julkaisnt/mat/manuksela/molecula.pdf>. [19 Juli 2008]
- 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.
- Moko, H. dan S.M.D. Rosita. 1996. Pengembangan budidaya, masalah dan peluang peningkatan produksi jahe di Indonesia. *Jurnal Litbang Pertanian*. 15(2) : 89-95.
- Muchtadi TR. 1992. Karakterisasi Komponen Intrinsik Utama Buah Sawit (*Elaeis guineensis*, Jacq) Dalam Rangka Optimalisasi Proses Ekstraksi Minyak dan Pemanfaatan Provitamin A. [Disertasi]. Bogor: Sekolah Pascasarjana Institut Pertanian Bogor.
- Murakoshi M, Nishino H, Satomi Y, Takayasu J, Hasegawa T, Tokuda H, Iwashima A, Okuzumi J, Okabe H, Kitano H. 1992. Potent Preventive Action of α -Carotene against Carcinogenesis: Spontaneous Liver Carcinogenesis and Promoting Stage of Lung and Skin Carcinogenesis in Mice Are Suppressed More Effectively by α -Carotene Than by β -Carotene. *Cancer Res.* 52:6583- 6587
- Nelson, L.M. 2004. Plant Growth Promoting Rhizobacteria (PGPR): Prospects for New Inoculants. Online. *Crop Management* doi:10.1094/CM-2004-0301-05-RV. 2004, Plant Management Network.
- Novizan. 2002. Petunjuk Pemupukan Yang Efektif. Jakarta. Agromdia Pustaka
- Nowak, J. 1988. Benefits of in vitro "biotization" of plant tissue cultures with microbial inoculants. *In vitro Cell. Dev. Biol. Plant* 34: 122-130.

- Pahan, I., 2006, Panduan Lengkap Kelapa Sawit : Manajemen Agribisnis dari Hulu Hingga Hilir. Penebar Swadaya. Jakarta
- Patten CL and BR Glick. 2002. Role of *Pseudomonas putida* in development of the host plant root system. Applied and Environmental Microbiology 68, 3795-3801.
- Pino, J.A., R. Marbot, A. Rosado, A. Batista. 2004. J. Ess. Oil Res.. 16. 186–188. PPKS. 2008. Deskripsi Kelapa Sawit DxP Simalungun. Medan
- Praktikum: Analisa Mikrobiologi Untuk Bakteri dan Fungi <http://www.pintarbiologi.com/2016/02/praktikum-analisa-mikrobiologi-untuk-bakteri-fungi.html>. diakses 27 januari 2017.
- Rahman R.; Anshar M & Bahrudin. 2015. Aplikasi Bakteri Pelarut Fosfat, Bakteri Penambat Nitrogen dan Mikoriza Terhadap Pertumbuhan Tanaman Cabai (*capsicum annum* L). e-j. Agrotekbis 3(3)
- Rubio MGT, SAV Olata, JB Castillo and PM Nieto. 2000. Isolation of *Enterobacteria*, *Azotobacter* sp. and *Pseudomonas* sp., producers of indole-3-acetic acid and siderophores, from Colombian rice rhizosphere. Revista Latinoamericana de Microbiología 42, 171-176.
- Salisbury, F. B dan C.W. Ross. 1995. Fisiologi Tumbuhan Jilid 3. Alih Bahasa Oleh Diah R Lukman dan Sumaryono. Institut Teknologi Bandung.
- Salisbury, F.B. dan C.W. Ross. 1995. Fisiologi Tumbuhan. Jilid 1. Edisi ke-4. Institut Teknologi Bandung, Bandung. (Diterjemahkan Oleh: Lukman D.R. dan Sumaryono).
- Salisbury, F.B. dan C.W. Ross. 1995. Fisiologi Tumbuhan. Jilid 1. Edisi ke-4. Institut Teknologi Bandung, Bandung. (Diterjemahkan Oleh: Lukman D.R. dan Sumaryono).
- Semangun, H. 2004. Penyakit-Penyakit Tanaman Pangan Di Indonesia. Gadjah Mada University Press. Yogyakarta.
- Setyamidjaja, D. 2006. Budidaya Kelapa Sawit. Kanisius. Yogyakarta. 62 Hal.
- Setyohadi. 2010. Diktat Agroindustri Hasil Tanaman Perkebunan. USU Press, Medan.
- Sitepu, I.R. 2007. Screening of Plant-Growth Promoting Rhizobacteria from Dipterocarpaceae Plants Growing in Indonesian Tropical Rain Forests and Investigations of Their Functions on Seedling Growth. PhD Dissertation. Hokkaido University. 91 pp.
- Sitepu, I.R., Aryanto, Y. Hashidoko, dan M. Turjaman. 2010 Aplikasi rhizobakteri penghasil fitohormon untuk meningkatkan pertumbuhan bibit *Aquilaria* sp. di persemaian. Info Hutan, 7(2): 107-116.

- Sitompul, S.M. B.Guritno, 1995. Analisis Pertumbuhan Tanaman. Gadjah Mada University Press. Yogyakarta.
- Supramana, P, Supriadi, L dan Harni R. 2007. Seleksi dan Karakterisasi Bakteri Endofit Untuk Mengendalikan Nematoda Peluka Akar (*Prathylenchus brachyurus*) Pada Tanaman Nilam. Laporan Hasil penelitian Institut Pertanian Bogor dengan Litbang Pertanian Proyek KKP3T.
- Suseno, H. 1974. Fisiologi Tumbuhan: Metabolisme Dasar. IPB. 276p.
- Sutariati GAK. 2006. Perlakuan Benih dengan Agen Biokontrol untuk Pengendalian Penyakit Antraknosa, Peningkatan Hasil dan Mutu Benih Cabai [Disertasi]. Sekolah Pascasarjana IPB, Bogor.
- Taufik, M., A. Rahman, dan S.H. Hidayat. 2010. Mekanisme ketahanan terinduksi oleh PGPR (Plant Growth Promoting Rhizobacteria) pada tanaman cabai terinfeksi CMV. J. Hortikultura 20 (3): 298-307
- Taufik, M., S.H. Hidayat, G. Suastika, S.M. Sumaraw, dan S. Sujiprihati. 2005. Kajian Plant Growth Promoting Rhizobacteria sebagai agens proteksi Cucumber mosaic virus dan Chilli vein mottle virus pada cabai. Hayati 12 (4): 139-144.
- Thakuria D, Talukdar NC, Goswami C, Hazarika S, Boro RC, Khan MR (2004). Characterization and screening of bacteria from the rhizosphere of rice grown in acidic soils of Assam. Curr. Sci. 86: 978-985.
- Tim Penulis PS. 1998. Kelapa Sawit. Penebar Swadaya, Jakarta.
- Timmusk, S. 2003. Mechanism of Actions of the The Plant-Growth-Promoting Rhizo Bacterium Paenibacillus polymixa [Dissertation]. Uppsala, Sweden: Departement of Cell and Molecular Biology, Uppsala University.
- Wahyu, W.M. 2015. Pengaruh Pemberian Hasil Isoasi Rhizobakteri Beberapa Jenis Bakteri Indigenos dan Pupuk Organik Terhadap Pertumbuhan Bibit Tanaman Karet (*Hevea brasiliensis* Muell.Arg). Skripsi. FAPERTA. Prodi Agroekoteknologi. Universitas Andalas Padang.
- Wattimena, G. A., 1988. Zat Pengatur Tumbuh Tanaman. Lembaga Sumber Daya Informasi IPB, Bogor.
- Wei G., J.W. Kloepper, & S. Tuzun, 1996. Induced systemic resistance to cucumber.
- Weisburg, W. G., S.M. Barns, D.A. Pelletier, and D.J. Lane. 1991. 16S Ribosomal DNA Amplification for Phylogenetic Study. Journal of Bacteriology 173: 697-707.
- Whipps, J. M. 2008. Microbial Interaction and Biocontrol in The Rhizosphere J Exp Bot. 52:4 487-511.

- Widiastuti, H., dan Panji, T., 2010. Pemanfaatan Tandan Kosong Kelapa Sawit Sisa Jamur Merang Sebagai Pupuk Organik Pada Pembibitan Kelapa Sawit. Diakses pada tanggal 8 Juni 2011.
- Widodo, Kade G.A., Sudarsono, Ilyas S., 2006. Karakter Fisiologis dan Keefektifan Isolat Rizobakteri Sebagai Agens Antagonis *Colletrichum Capsici* dan Rizobakteri Pemacu Pertumbuhan Tanaman Cabai Kultura 41 (1) : 28 – 34, March 2006.
- Yanti, Y dan Resti Z. 2010.Induksi Ketahanan Bawang Merah Dengan Bakteri Rhizoplan Indigenos Terhadap Penyakit Hawar Daun Bakteri (*Xanthomonas axonopodis pv.Alii*). Dalam Loekas Soesanto, Endang Muiguastis, Ruth Feti Rahayunita dan Abdul Manan (Sd). Prosiding Seminar Nasional Pengolahan OPT Ramah Lingkungan Purwokerto, 10 – 11 November 2010. Hal. 235-241
- Yanti, Y., Habazar, T., Resti, Z dan Suhailita, D. 2013. Penapisan Isolat Rhizobakteri dari Perakaran Tanaman Kedelai yang Sehat untuk Pengendalian Penyakit Pustul Bakteri (*Xanthomonas axonopodis PV. Glycines*). Jurnal HPT Tropika 13 (1) : 24-34.
- Zakry, F.A.A., Halimi, M.S., Abdul Rahim, K.B., Osumanu, H.A., Wong, S.K., Franklin, R.K., Stephen, L.C.T., and Make J., 2010. Isolation and Plant Growth Promoting Properties of Rhizobacterial Diazotrophs from Pepper Vine. Malaysia Application Biology. 39(2):41-45.

