

DAFTAR PUSTAKA

- Aeny T.N., 2006. Pengaruh Perlakuan Bibit Terhadap Perkembangan Penyakit Layu Bakteri (*Pseudomonas solanacearum*) pada Jahe (*Zingiber officinale*). <http://digilib.itb.ac.id/gdl>. Diakses 3 Oktober 2016.
- Agrios G.N., 2005. Plant Pathology. Edisi ke-5. New York (US): Academic Press.
- Agustin W., Ilyas S., Budi S.W., Anas I., Suwarno F.C., 2010. Inokulasi Fungi Mikoriza Arbuskula (FMA) dan Pemupukan P untuk Meningkatkan Hasil dan Mutu Benih Cabai (*Capsicum annum* L.). J. Agron. Indonesia. 38 : 218 – 224.
- Almoneafy A.A., Xie G.L., Tian W.X., Xu L.H., Zhang G.Q., Ibrahim M., 2012. Characterization and Evaluation of *Bacillus* Isolates for Their Potential Plant growth and Biocontrol Activity Against Tomato Bacterial Wilt. Afr J Biotechnol. 11 (28): 7193–7201.
- AVRDC., 2005. Protocol for Studying Inheritance of Resistance to Bacterial Wilt. Taiwan: Asian Vegetable Research and Development Centre.
- Backman P.A., and Sikora R.A., 2008. Endophytes: An Emerging Tool For Biological Control. Biol Control. 46 (1):1-3. doi:10.1016/j.biocontrol.2008.03.009.
- Bacon C.W., and Hinton D.M., 2007. Bacterial Endophytes : The Endophytic Niche, Its Occupants, and Its Utility. Di dalam: Gnamanickam SS, Editor. *Plant-Associated Bacteria*. Berlin (DE): Springer. hlm 155-194.
- Badan Pusat Statistik., 2015. Produktivitas Cabai Besar Menurut Provinsi 2010-2014. <http://www.pertanian.go.id/ATAP2014-HORTI-pdf/303-Prodvtv-CabeBesar.pdf>. Diakses 8 Agustus 2015.
- Bent E., and Chanway C.P., 2002. Potential for Misidentification of Spore-forming *Paenibacillus polymyxa* Isolat as an Endophyte by Using Culture-based Methods. Appl Environ Microbiol. 68:4650–4657. DOI: <http://dx.doi.org/10.1128/AEM.68.9.4650-4652.2002>.
- Berke T., Black L.L., Talekar N.S., Wang J.F., Gniffke P., Green S.K.G., Wang T.C., Morris R., 2005. Suggested Cultural Practices for Chili Pepper. AVRDC Pub, hlm 05-620.
- Bradbury J.F., 1970. Isolation and Preliminary Study of Bacteria from Plants. Rev. Plant Path. 49:213-218.
- Buddenhagen I.W., and Kelman A., 1964. Biological and Physiological Aspect of Bacterial Wilt Caused by *Pseudomonas solanacearum*. Ann. Rev. Phytopathol. 2:201-230.

- Compant S., Duffy B., Nowak J., Clément C., and Barka E.A., 2005. Use of Plant Growth-Promoting Bacteria for Biocontrol of Plant Diseases: Principles, Mechanisms of Action, and Future Prospects. *Appl. Environ. Microb.* 71:4951–4 959.
- Damayanti I., 2010. Seleksi Dan Karakterisasi Bakteri Endofit Untuk Menekan Kejadian Penyakit Layu Bakteri (*Ralstonia solanacearum*) pada Tanaman Tomat [Skripsi]. Bogor: Fakultas Pertanian. Institut Pertanian Bogor.
- Dermawan R., dan Harpenas A., 2010. Budi Daya Cabai Unggul, Cabai Besar, Cabai keriting, Cabai Rawit, dan Paprika. Jakarta: Penebar Swadaya. 33 hlm.
- Edward E.J., King W.S., Teck S.L.C., Jiwan M., Aziz Z.F.A., Kundat F.R., Ahmed O.H., Majid A.M., 2013. Antagonistic Activities of Endophytic Bacteria Against *Fusarium* Wilt of Black Pepper (*Piper nigrum*). *Int J Agric Biol.* 15(2):291-296.
- EPPO Quarantine Pest. 2011. Data Sheet of Quarantine Pest *Ralstonia solanacearum*. European Union. Tersedia pada: <http://www.eppo.int/QUARANTINE/bacteria/RalstoniasolanacearumPSDMSOds.pdf>.
- Gnanamanickam S.S., 2006. Plant-associated Bacteria. Dordrecht, Springer. 56 hlm.
- Habazar T., Nasrun., Jamsari., Rusli I., 2007. Pola Penyebaran Penyakit Hawar Daun Bakteri (*Xanthomonas axonopodis* pv *allii*) pada Bawang Merah dan Upaya Pengendaliannya Melalui Imunisasi Menggunakan Rhizobacteria. Laporan hasil penelitian KKP3T. Universitas Andalas bekerjasama dengan Sekretariat Badan Penelitian dan Pengembangan Pertanian.
- Habazar T., Resti Z., Yanti Y., Trisno J., Diana A., 2012. Penapisan Bakteri Endofit Akar Kedelai Secara *in Planta* untuk Mengendalikan Penyakit Pustul Bakteri. *Jurnal Fitopatologi Indonesia* 8(4): 103-109.
- Hallmann J., Quadt-Hallmann A., Mahaffee W.F, Kloepper J.W., 1997. Bacterial Endophytes in Agricultural Crops. *Can. J. Microbiol.* 43:895 – 914.
- Handini Z., Vinda T., Nawangsih A.A., 2014. Keefektifan Bakteri Endofit dan Bakteri Perakaran Pemacu Pertumbuhan Tanaman dalam Menekan Penyakit Layu Bakteri pada Cabai. *Jurnal Fitopatologi Indonesia* 10 (2): 61- 67.
- Harni R., dan Ibrahim M.S.D., 2011. Potensi Bakteri Endofit Menginduksi Ketahanan Tanaman Lada Terhadap Infeksi *Meloidogyne incognita*. *J Littri.* 17(3):118–123.
- Hartman G.L, and Ephinstone., 1994. Advances in The Control of *Pseudomonas solanacearum* Race 1 in Major Food Crops. Di dalam: Hayward AC,

- Hartman GR, editors. *Bacterial Wilt: The Disease and Its Causative Agent, Pseudomonas solanacearum*. Wallingford [UK]: Cab International. hlm 157-169.
- Hayward A.C., 1964. Characteristics of *Pseudomonas solanacearum*. J. Appl. Bacteriol. 27 (2):265-277.
- Hayward A.C., 1983. *Pseudomonas* : The Non-Fluorescent *Pseudomonads*. Di dalam: Fahy PC, Persley GJ. editor. *Plant Bacterial Disease: A Diagnostic Guide*. Sydney: Academic Press. hlm 107-140.
- Hayward A.C., 1985. Bacterial Wilt Caused by *Pseudomonas solanacearum* in Asia and Australia: an overview. Di dalam: Persley GJ. editor. *Bacterial Wilt Disease in Asia and the South Pasific*. Proc. International Workshop held at PCARRD, Los Banos, 8 – 10 Okt 1985. Canberra: PCARRD, CIP, SAPPRAD, ACIAR. hlm 15-24.
- He L.Y., Sequiera L., Kelman A., 1983. Characteristic of Strains of *Pseudomonas solanacearum* from China. *Plant Disease* 67:1356-1361.
- Hilman Y., dan Suwandi., 1992. Pengaruh Pupuk Nitrogen dan Triple Super Phosphate pada Tanaman Cabai. *Bul.Penel.Hort.* 23(1) : 107-116.
- Jeung Y., Kim J., Kang Y., 2007. Genetic Diversity and Distribution of Korean Isolates of *Ralstonia solanacearum*. *Plant Disease* 91(10) : 1277-1287.
- Kamil., 1979. *Teknologi Benih 1*. Padang: Angkasa Raya. 227 hlm.
- Kelman A., 1953. The Bacterial Wilt Caused by *Pseudomonas solanacearum*. A Literature Review and Bibliography. North Carolina Agric. Expt. Sta. Tech. Bull., 99.
- Khaeruni A., dan Gusnawaty H.S., 2012. Penggunaan *Bacillus* spp Sebagai Agen Biokontrol untuk Mengendalikan Penyakit Layu Fusarium pada Tanaman Cabai. *Jurnal Agroteknos* 2 (3): 182-189.
- Khairul U., 2005. *Kajian Beberapa Komponen Pengendalian Terpadu Penyakit Layu Bakteri Pada Tanaman Cabai Merah [Disertasi]*. Bogor: Institut Pertanian Bogor.
- Klement Z., 1963. Rapid Detection of The Pathogenicity of Pyhytopathogenic *Pseudomonads*. *Nature*. 199:299-300.
- Klement Z., Rudolph K., Sand D.C., 1990. *Methods in Phytophatology*. Akademia Kiado: Budapest. Hungary.
- Kloepper J.W., and Ryu C.M., 2006. Bacterial Endophytes as Elicitors of Induced Systemic Resistance. *Springer-Verlag*. 9: 33-52.
- Lisnawita., Murti, R.S dan Oemry, S. 2015. *Potensi Bakteri Endofit dalam Meningkatkan Pertumbuhan Tanaman Tembakau yang Terinfeksi*

- Nematoda Puru Akar (*Meloidogyne* spp.). Jurnal Agroekoteknologi 4(1): 1881-1889.
- Long H.H., Schmidt D.D., Baldwin I.T., 2008. Native Bacterial Endophytes Promote Host Growth in a Species-Specific Manner; Phytohormone Manipulations Do Not Result in Common Growth Responses. <http://www.plosone.org/article/info:doi/10.1371/journal.pone.0002702>.
- Lugtenberg B., and Kamilova F., 2009. Plant-growth-promoting Rhizobacteria. *Annu Rev Microbiol.* 63:541–56.
- Machmud M., 1985. Bacterial Wilt in Indonesia. Di dalam: Persley GJ. editor. *Bacterial Wilt Disease in Asia and the South Pasific*. Proc. International Workshop held at PCARRD, Los Banos, 8 – 10 Okt 1985. Canberra: PCARRD, CIP, SAPPRAD, ACIAR. hlm 30 – 34.
- Mansyurdin., Dahlan S., Yanti Y., 2000. Induksi Ketahanan Sistemik Melalui Daun pada Tanaman Cabai Keriting Terhadap Penyakit Antraknosa. *Jurnal Stigma* 8(3):213-216.
- Manuella M., Suwanto A., Tjahyono B., 1997. Keefektifan Biokontrol *Pseudomonas fluorescens* B29 Terhadap *Xanthomonas campestris* pv *glycines in Planta*. *Hayati* hlm 12-16.
- Marwan H., Sinaga M.S., Giyanto., Nawangsih A.A., 2011. Isolasi dan Seleksi Bakteri Endofit untuk Mengendalikan Penyakit Darah pada Tanaman Pisang. *Jurnal HPT Tropika* 11(2): 113-121.
- Mazzucchi U., 1977. *Elementi di Batteriologia Fitopatologica* Vol.1. Pitagora Editrice Bologna. 176.
- McCarter S.M., 2006. Bacterial Wilt. Di dalam: Jones JB, Jones JP, Stall RE, Zitter TA, editors. *Compendium of Tomato Diseases*. Minnesota [USA]: The American Phytopathological Society. hlm 28-29.
- Melnick R.L., Zidack N.K., Bailey B.A., Maximova S.N., Guiltinan M., Backman P.A., 2008. Bacterial Endophytes: *Bacillus* spp. from Annual Crops as Potential Biological Control Agents of Black Pod Rot of Cacao. *Biol Control.* 46:46–56. DOI: <http://dx.doi.org/10.1016/j.biocontrol.2008.01.022>.
- M'Piga P., Bélanger R.R., Paulitz T. C., Benhamou N., 1997. Increased Resistance to *Fusarium oxysporum* f. sp. *radicislycopersici* in Tomato Plants Treated With The Endophytic Bacterium *Pseudomonas fluorescens* Strain 63-28. *Physiological and Molecular Plant Pathology* 50: 301-320.
- Muliani., 2016. Potensi Bakteri Endofit Sebagai Agens Pengendali Penyakit Busuk Cabang (*Septobasidium* sp.) pada Lada [Tesis]. Bogor: Fakultas Pertanian. Institut Pertanian Bogor.

- Munif A., 2001. Studies on The Importance of Endophytic Bacteria for The Biological Control of The Root-Knot Nematode *Meloidogyne incognita* on Tomato (*Dissertation*). Doktor der Agrarwissenschaften. Wilhelms (DE): Rheinischen Friedrich-Wilhelms-Universität Bonn.
- Munif A., 2003. Peranan Mikroba Endofit Sebagai Agens Hayati Dalam Mendukung Pembangunan Pertanian Berkelanjutan. Seminar Nasional dan Gelar Produk Bidang Ilmu Hayati, Bogor, 4 September 2003.
- Munif A., dan Sulistiawati., 2014. Pengelolaan Penyakit Kuning pada Tanaman Lada oleh Petani di Wilayah Bangka. *J Fitopatol Indones.* 10(1):8-16.doi:10.14692/jfi.10.1.8.
- Munif A., Hallmann J., Sikora R.A., 2000. Evaluation of The Biocontrol Activity of Endophytic Bacteria from Tomato Againsts *Meloidogyne incognita*. *Med Fac Landbouww.* 165(2b):471-480.
- Munif A., Wiyono S., Suwarno., 2012. Isolasi Bakteri Endofit Asal Padi Gogo dan Potensinya sebagai Agens Biokontrol dan Pemacu Pertumbuhan. *Jurnal Fitopatologi Indonesia* 8 (3): 57-64.
- Musa A.S., Wachjadi M., Soesanto L., 2005. Potensi Beberapa Pestisida Nabati dalam Upaya Penyehatan Tanah Tanaman Cabai *in Planta*. Purwokerto. Universitas Soedirman.
- Naik B.S., Shashikala J., Krishnamurthy Y.L., 2008. Diversity of Fungal Endophytes in Shrubby Medicinal Plants of Malnad Region, Western Ghats, Southern India. *Fungal Ecol.* 1(2-3):89-93.doi:10.1016/j.funeco.2008.05.001.
- Nurhayati., 1987. Periode Kritis Tanaman Cabai Besar (*Capsicum annuum* L.) karena Adanya Persaingan dengan Gulma [Tesis]. Malang: Fakultas Pertanian. Universitas Brawijaya.
- Palupi., Hendra., Izmi Y., Respatijarti., 2005. Uji Ketahanan 14 Galur Cabai Besar (*Capsicum annuum* L.) Terhadap Penyakit Antraknosa (*Colletotrichum* spp) dan Layu Bakteri (*Ralstonia solanacearum*). Malang : Fakultas Pertanian. Univesitas Brawijaya.
- Persley G.J., Batugal P., Gapasin D., Zaag P.V., 1985. Summary of Discussion and Recommendations in Bacterial Wilt Disease. Di dalam: Persley GJ. editor. *Bacterial Wilt Disease in Asia and the South Pasific*. Proc. International Workshop held at PCARRD, Los Banos, 8 – 10 Okt 1985. Canberra: PCARRD, CIP, SAPP RAD, ACIAR.
- Piay S.S., Tyadjaja A., Ermawati Y., Rudi F.R.H., 2010. Budidaya dan Pascapanen Cabai Merah (*Capsicum annuum* L). Jawa Tengah: BPTP. 60 hlm.
- Press C., Kisaalita W., Wilson M., Tuzun S., Kloepper J.W., 1997. Effect of Iron and Siderophores on Induced Systemic Resistance on Cucumber

Mediated by *Serratia marcescens* 90-166. Proceedings edisi 4 Intern Workshop on Plant Growth-Promoting Rhizobacteria. Japan, 5-10 October 1997. Japan-OECD Joint Workshop. hlm 243-245.

- Rajendran L., Saravanakumar D., Ragunchander T., Samiyappan R., 2006. Endophytic Bacterial Induction of Defence Enzymes Against Bacterial Blight of Cotton. Department of Plant Pathology, Centre for Plant Protection Studies, Tamil Nadu Agriculture University, Coimbatore-641003, Tamil Nadu, India.
- Resti Z., Habazar T., Prima D.P., Nasrun., 2013. Skrining dan Identifikasi Isolat Bakteri Untuk Mengendalikan Penyakit Hawar Daun Bakteri Pada Bawang Merah. Jurnal HPT Tropika 13 (2) :105-207.
- Reswita., 2012. Harga Pokok, Impas, dan Profitabilitas Usaha Tani Cabai Merah (*Capsicum annuum* L) di Desa Sumber Urip kecamatan Selupu Rejang Kabupaten Rejang Lebong. Jurnal Agribisnis.
- Risqi D.N., 2010. Budidaya Tanaman Cabai Merah (*Capsicum annuum* L) di UPD Pembibitan Tanaman Hortikultura Desa Pakopen Kecamatan Bandungan Kabupaten Semarang [Skripsi]. Surakarta: Fakultas Pertanian. Universitas Sebelas Maret.
- Rosenblueth M., and Romero E.M., 2004. *Rhizobium etli* Maize Populations and Their Competitiveness for Root Colonization. *Arch Microbiol.* 181(5):337- 344.doi.1008/s002000-004-0661-9.
- Rosi E., Habazar T., Resti Z., Yanti Y., 2012. Induksi Ketahanan Tanaman Tomat Menggunakan Isolat Bakteri Endofit Indigenus untuk Pengendalian Penyakit Bercak Bakteri (*Xanthomonas axonopodis* pv. vesicatoria). Prosiding Seminar Nasional BKSPTN Wilayah Barat. Medan.
- Sasmito E.E., 2007. Penggunaan Guano Kelelawar Pemakan Serangga untuk Pengendalian Penyakit Layu Bakteri oleh *Ralstonia solanacearum* pada Tanaman Tomat [Skripsi]. Bogor: Fakultas Pertanian. Institut Pertanian Bogor.
- Schaad N.W., Jones J.B, Chun W., 2001. Laboratory Guide for Identification of Plant Pathogenic Bacteria. St Paul: The American Phytopathology Society.
- Semangun H., 2004. Penyakit-penyakit Tanaman Hortikultura di Indonesia. Yogyakarta: Gadjah Mada University Press.
- Semangun H., 2007. Penyakit – Penyakit Tanaman Hortikultura di Indonesia (edisi Kedua). Gadjah Mada University Press. Yogyakarta.
- Sessitsch A., Reiter B., Berg G., 2004. Endophytic Bacterial Communities of Field-grown Potato Plants and Their Plant Growth Promoting and Antagonistic Abilities. *Can J Microbiol.* 50(4):239-249.

- Sigee D.C., 1993. Bacterial Plant Pathology: Cell and Molecular Aspect. Manchester (UK): Cambridge University Press.
- Sivan A., and Chet I., 1986. Biological Control of *Fusarium* spp. in cotton, Wheat and Muskmelon By *Trichoderma harzianum*. J. Phytopathology 116: 39-47.
- Soesanto L., 2008. Pengantar Pengendalian Hayati Penyakit Tanaman. Jakarta: Rajawali Pers. 574 hlm.
- Sturz A.V., and Nowak J., 2000. Endophytic Communities of Rhizobacteria and The Strategies Required to Create Yield Enhancing Associations with Crops. *A.I. Soil. Ecol.* 15:183-190.
- Sumarni N., dan Muharram A., 2005. Budidaya Tanaman Cabai Merah. Lembang: Balitsa. 34 hlm.
- Sun H., Yen H., Qing Xiao., Renyuan Y., Yongqiang T., 2013. Isolation, Characterization, and Antimicrobial Activity of Endophytic Bacteria from *Polygonum cuspidatum*. *Academic J.* 7(16): 1496-1504.
- Sundaramoorthy S., Raguchander T., Ragupathi N., Samiyappan R., 2012. Combinatorial Effect of Endophytic and Plant Growth Rhizobacteria Against Wilt Disease of *Capsicum annum* L. Caused by *Fusarium solani*. *BioCont.* 60(1):59-67. doi:10.1016/j.biocontrol.2011.10.002.
- Suryadi Y., dan Machmud V.M., 2002. Keragaman Genetic Strain *R. solanacearum* Berdasarkan Karakterisasi Menggunakan Teknik Berbasis Asam Nukleat. *Buletin Agrobio* 5(2):59-66.
- Sutariarti, G.A.K., dan Wahab A., 2012. Karakterisasi Fisiologis dan Kemangkusan Rizobakteri Indigenus Sulawesi Tenggara sebagai Pemacu Pertumbuhan Tanaman Cabai. *Jurnal Hortikultura* 22 (1): 57-64.
- Sutarya R., Grubben G., Sutarno H., 1995. Pedoman Bertanam Sayuran Dataran Rendah. Yogyakarta: Gajah Mada University. 264 hlm.
- Van den Bosch R., Messenger P.S., Guitierrez A.P., 1982. *An Introduction to Biological Control*. Plenum Press. New York.
- Van Loon L.C., 2007. Plant Responses to Plant Growth-Promoting Rhizobacteria. *Eur J Plant Pathol.* 119:243–254.
- Vasudevan P., Reddy M.S., Kavitha S., Velusamy P., Paulraj R.S.D., 2002. Role of Biological Preparations in Enhancement of Rice Seedling Growth and Grain Yield. *Current Science* 83: 1140-1143.
- Wang J.F., 1998. Basic Protocols for Conducting Research on Tomato Bacterial Wilt Caused by *Ralstonia solanacearum*. Shanhua: Asian Vegetable Research and Development Center.

- Wang Y., Zeng Q., Zhang Z., 2010. Antagonistic Bioactivity of an Endophytic Bacterium H-6. *African Journal of Biotechnology*, 9(37):6140-6145.
- Wei G., Kloepper J.W., Tuzun S., 1991. Induction of Systemic Resistance of Cucumber to *Colletotrichum orbiculare* by Select Strains of Plant Growth Promoting Rhizobacteria. *Phytopathol.* 81(12):1508–1512. doi.10.1094/Phyto-81-1508.
- Yabuuchi E., Kosaka Y., Yano I., Hotta H., Nishiuchi Y., 1995. Transfer of Two *Burkholderia* and an *Alcaligenes* Species to *Ralstonia* gen : Proposal of *Ralstonia pickettii* (Ralston, Palleroni, and Doudoroff. 1973) comb.Nov. *Ralstonia solanacearum* (Smith, 1986). Com nov. and *Ralstonia eutropha* (Davis.1996) comb nov. *J. Microbiol. Immunol.* 39(11):897-904.
- Yanti Y., dan Resti Z., 2010. Pengimbasan Ketahanan Tanaman bawang Merah dengan Bakteri Rizoplan Indigenus Terhadap Penyakit Hawar Daun Bakteri (*Xanthomonas axonopodis* pv *allii*). Prosiding Seminar Nasional Pengelolaan Organisme Pengganggu Ramah Lingkungan, Purwokerto, 10-11 November 2010.
- Yanti Y., dan Syarif Z., 2016. Potensi Rhizobakteria Indigenos Sebagai Agen Hayati dan Aplikasinya untuk Menekan Penyakit serta Meningkatkan Pertumbuhan pada Tanaman Tomat di Sumatera Barat. Laporan Akhir Penelitian Fundamental : Universitas Andalas.
- Yanti Y., Habazar T., Resti Z., Suhailita D., 2013. Penapisan Isolat Rizobakteri Dari Perakaran Tanaman Kedelai Yang Sehat Untuk Pengendalian Penyakit Pustul Bakteri (*Xanthomonas axonopodis*pv. *glycines*). *Jurnal HPT Tropika.* 13(1):24-34.
- Zakaria L., Yaakop A.S., Salleh B., Zakaria M., 2010. Endophytic Fungi From Paddy. *J. Tropical Life Sciences Research.* 21(1): 101-107.
- Zinniel D.K., Lambrecht P., Harris N.B., Feng Z., Kuczmariski D., Higley P., Ishimaru C., Arunakumari A., Barletta R.G., Vidaver A.K., 2002. Isolation and Characterization of Endophytic Colonizing Bacteria from Agronomic Crops and Prairie Plants. *Appl. Environ. Microbiol.* 68 (5) :2198-2208.