

DAFTAR PUSTAKA

- Agrios, G.N., 2005, *Plant Pathology*, 5thed, Elsevier. New York: Academic Press.
- Almoneafy, A.A., G.L. Xie, W.X. Tian, L.H. Xu, G.Q. Zhang, M. Ibrahim, 2012, “Characterization and evaluation of *Bacillus* isolates for their potential plant growth and biocontrol activities against tomato bacterial wilt”, *African Journal of Biotechnology* 11: 7193-7201.
- Alvarez, B., E.G. Biosca & M.M. Lopez, 2010, “On the Life of *Ralstonia solanacearum*, a Destructive Bacterial Plant Pathogen”, *Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology*: 267-279.
- Al-Zahrani, S.H.M., 2007, “Studies on the antimicrobial activity of *Streptomyces* sp. isolat from Jazan”, *JKAU: Sci* 19:127-138.
- Ambardar, V.K., 2011, “Potential of Endo-mycorrhizae and Bacterial Antagonist on the Growth Performance of Tomato Cultivars against Bacterial Wilt”, *Journal of Research & Development*, 11: 3-12.
- Arwiyanto, T., 1997, “Pengendalian Hayati Penyakit Layu Bakteri Tembakau”, *Jurnal Perlindungan Tanaman Indonesia*, 5: 54–60.
- Arwiyanto, T., 2014, *Ralstonia solanacearum: Biologi, Penyakit yang Ditumbulkan dan Pengelolaannya*, Yogyakarta: UGM Press.
- Arwiyanto, T., Asfanudin, R., Wibowo, A., Martoredjo, T. & Dalmadiyo, G., 2007a, “Penggunaan *Bacillus* Isolat Lokal Untuk Menekan Penyakit Lincat Tembakau Temanggung”, *Berkala Penelitian Hayati*, 13: 79-84.
- Arwiyanto, T., Y. M. S. Maryudani & A. E. Prasetyo, 2007b, “Karakterisasi dan Uji Aktivitas *Bacillus* spp. sebagai Agensia Pengendalian Hayati Penyakit Lincat pada Tembakau Temanggung”, *Berkala Penelitian Hayati*, 1: 93-98.
- Arwiyanto, T. & Hartana, I., 1999, “Pengendalian Hayati Penyakit Layu Bakteri Tembakau, Percobaan Rumah Kaca”, *Jurnal Perlindungan Tanaman Indonesia*, 5: 50–59.
- Arwiyanto, T., Supriadi & M. Januwati, 2009, *Pengendalian Biologi Penyakit Layu Bakteri Jahe dengan Streptomyces spp.*, Laporan Hasil Kegiatan, Lembaga Penelitian dan Pengabdian kepada Masyarakat UGM bekerjasama dengan Badan Penelitian dan Pengembangan Pertanian.
- Berlian, I., 2012, *Analisis Petogenesitas dan Karakterisasi Keragaman Genetik Banana Blood Disease Bacterium (BDB)*, Tesis: Universitas Gadjah Mada.

- Black, L.L., D.L. Wu, J.F. Wang, T. Kalb, D. Abbas, J.H. Chen, 2003, International Cooperators Guide-Grafting Tomatoes for Production in The Hot-Wet Season. AVRDC pub 03-551.
- Bonjar, G.H.S., S. Zamanian, S. Aghighi, P.R. Farrokhi, M.J. Mahdavi & I. Saadoun, 2006, "Antibacterial Activity of Iranian *Streptomyces coralus* Strain 63 Against *Ralstonia solanacearum*", Journal of Biological Sciences, 6: 127-129.
- Boukaew, S., S. Chuenchit & V. Petcharat, 2011, " Evaluation of *Streptomyces* spp. for Biological Control of Sclerotium Root and Stem Rot and *Ralstonia* Wilt of Chili Pepper". BioControl, 56: 365–374.
- Bustamam, H., 2006, "Seleksi Mikroba Rizosfer Antagonis Terhadap Bakteri *Ralstonia solanacearum* Penyebab Penyakit Layu bakteri Pada Tanaman Jahe di Lahan Tertindas", Jurnal Ilmu-Ilmu Pertanian Indonesia, 8: 12-18.
- Cahyono, B., 2005, *Tomat (Budidaya dan analisis usaha tani)*. Yogyakarta; Kanisus.
- Caruso, P., J. L. Palomo, E. Bertolini, B. Àlvarez, M. M. López & E. G. Biosca, 2005, "Seasonal Variation of *Ralstonia solanacearum* Biovar 2 Populations in a Spanish River: Recovery of Stressed Cells at Low Temperatures", Appl. Environ. Microbiol, 71: 140-148
- Castillo J.A. & J.T. Greenberg, 2007, "Evolutionary Dynamics of *Ralstonia solanacearum*", Appl. Envir. Microbiol., 73: 1225-1238.
- Chrisnawati, Nasrun & T. Arwiyanto, 2009, "Pengendalian Penyakit Layu Bakteri Nilam Menggunakan *Bacillus* spp. dan *Pseudomonas fluorescens*", Jurnal Littri, 15: 116-123.
- Chun, W. & A.K. Vidaver, 2001, Gram Positive Bacteria: *Bacillus*, dalam *Plant Pathogenic Bacteria 3rd ed*, Diedit oleh N.W. Schaad, J.B. Jones & W. Chun (Eds), Minnesota: APS Press, Hal. 250-260.
- Cook, R.J. & Baker, K.F., 1996, *The Nature and Practice of Biological Control of Plant Pathogens*, Minnesota: APS Press.
- De Meyer, G. & M. Hofte, 1997, "Salicylic Acid Produced by Rhizobacterium *Pseudomonas aeruginosa* TNSK2 Induced Resistance to Leaf Infection by *Botrytis cinerea* on Bean", Phytopathology, 87: 588-593.
- Deny T.P., A.C Hayward, 2001, Gram Negative Bacteria: *Ralstonia*, dalam *Laboratory Guide for Identification of Plant Pathogenic Bacteria*, Diedit oleh N.W. Schaad, J.B. Jones, W. Chun (eds), Minnesota: APS Press.

- de-Oliveira, M. F., M. G. da-Silva & S.T.V. Sand, 2010, “Anti Phytopathogen Potential of Endophytic Actinobacteria Isolated from Tomato Plants in Southern Brazil and Characterization of *Streptomyces* sp. R18(6), a Potential Biocontrol Agent”, *Microbiology*, 161: 565-572.
- Dong, C., X. Zeng, & Q. Liu, 1999, “Biological Control of Tomato Bacterial Wilt with Avirulent Bacteria Carcinogenic Strain of *Ralstonia solanacearum*”, *J. Sci. China Agric. Univ*, 20: 1–4.
- Elphinstone, J.G., 2005, The Current Bacterial Wilt Situation: a Global Overview, dalam *Bacterial Wilt Disease and the Ralstonia solanacearum Species Complex*, Diedit oleh C. Allen, P. Prior, A.C. Hayward, Minnesota: APS Press, hal. 9.
- Fahy, P.C., A.C. Hayward, 1983, Media and methods for isolation and diagnostic test, dalam *Plant Bacterial Disease and Diagnostic Guide*, P.C. Fahy, G.J Persley, New York: Academic Press.
- Fegan, M. & P. Prior, 2005, How complex is the "*Ralstonia solanacearum* species complex"?, dalam *Bacterial Wilt Disease and the Ralstonia solanacearum Species Complex*, Diedit oleh C. Allen, P. Prior, A.C. Hayward, Minnesota: APS Press.
- Flardh K. & M.J. Buttner, 2009, “*Streptomyces* Morphogenetics: Dissecting Differentiation in a Filamentous Bacterium”, *Nature Review Microbiology* 7: 36-50.
- Fravel, D.R., 1988, “Role of Antibiosis in the Biocontrol of Plant Diseases”, *Annu. Rev. Phytopathol*, 26: 75-91.
- Goto, M., 1992, *Fundamentals of Bacterial Plant Pathology*, New York: Academic Press, INC.
- Guetsky, R., D. Shtienberg, Y. Elad & A. Dinoor, 2001, “Combining Bio-Control Agents to Reduce the Variability of Biological Control”, *Phytopathology*, 91: 621-627.
- Guo, J.H., H.Y. Qi, Y.H. Guo, H.L. Ge, L.Y. Gong, L.X. Zhang, & P.H. Sun, 2004, “Biocontrol of Tomato Wilt by Plant Growth-Promoting Rhizobacteria”, *Biological Control*, 29: 66–72.
- Haas, D. & G. Defago, 2005, “Biological Control of Soil-Borne Pathogens by Fluorescent *Pseudomonads*”, *Nature Reviews Microbiology*.
- Habazar T., & R. Firdaus, 2003, *Bakteri Patogen Tumbuhan*. Padang: Universitas Andalas Press.

- Haggag, W.M. & H.A.A. Mohamed, 2007, "Biotechnological Aspects of Microorganism Used in Plant Biological Control", *Am-Eurasian Journal Sustainable Agriculture*. 1: 7-12.
- Hallmann, E, 2012, "The Influence of Organic and Conventional Cultivation Systems on the Nutritional Value and Content of Bioactive Compounds in Selected Tomato Types", *Jurnal Sci Food Agric*, 92:2840-2848.
- Hanudin & B. Marwoto, 2003, "Pengendalian Penyakit Layu Bakteri dan Akar Gada pada Tanaman Tomat dan caisim menggunakan *Pseudomonas fluorescens*", *Jurnal Hortikultura*, 13: 58-66.
- Hanudin, B. Marwoto, Hersanti & A. Muharam, 2012, "Kompatibilitas *Bacillus substilis*, *Pseudomonas fluorescens* dan *Trichoderma harzianum* untuk Mengendalikan *Ralstonia solanacearum* pada Tanaman Kentang", *Jurnal Hortikultura*, 22: 173-180.
- Handelsman, J. & E.V. Stabb, 1996, "Biocontrol of Soilborn Plant Pathogens", *The Plant Cell* 8: 1855-1869.
- Hastuti, R.D., Y. Lestari, R. Saraswati, A. Suswanto & Chaerani, 2012, "Capability of *Streptomyces* spp. in Controlling Bacterial Leaf Blight Disease in Rice Plant", *American Journal of Agricultural and Biological Sciences* 7: 217-223.
- Hatmanti, A., 2000, "Pengenalan *Bacillus* sp.", *Jurnal Oseana*, 25(1): 31-41.
- Hayward, A.C, 1991, Biology and Epidemiology of Bacterial Wilt Caused by *Pseudomonas solanacearum*", *Annual Review of Phytopathology* 29: 65-87.
- Haleblian, S., B. Harris, S. M. Finegold, and R. D. Rolfei, 1981, "Rapid method that aids in distinguishing Gram-positive from Gram-negative anaerobic bacteria", *Journal of Clinical Microbiology*: 444-448.
- Jetiyanon, K., & J. W. Kloepper, 2002, "Mixtures of Plant Growth-Promoting Rhizobacteria for Induction of Systemic Resistance Against Multiple Plant Diseases", *Biological Control*, 24: 285-291.
- Kado, C.I., 2010, *Plant Bacteriologi*, Minnesota: APS Press.
- Keel, H., 2003, "Regulation of antibiotic production in root-colonizing *Pseudomonas* spp. and relevance for biological control of plant disease", *Phytopathology* 41: 117-153.
- Kelman, A., 1953, *Bacterial wilt caused by Pseudomonas solanacearum. A literature review and bibliography*, Berlin: Springer-Verlag.

- Kerr, A. & K. Gibb, 1997, Bacterial and Phytoplasma Diseases and Their Control, dalam *Plant Pathogens and Plant Diseases*, Diedit oleh J.F. Brown & H.J. Ogle, Australia: University of New England Printery, hal. 476.
- Kim, J. & S. Kim, 2007, "Improvement of biological control against bacterial wilt by the combination of biological control agents with different mechanism of action", *J. Appl. Biol. Chem* 50: 136-143.
- Lelliot, R.A. & D.E. Stead, 1987, *Methodes for The Diagnosis of Bacterial Diseases of Plant*. Melbourne: British Society for Plant Pathology by Blackwel Sscientific Publication.
- Li, X., T. Zhang, X. Wang, K. Hua, L. Zhao, Z. Han, 2013, "The composition of root exudates from two different resistant peanut cultivar and their effects on the growth of soil-borne pathogen", *Int. J. Biol. Sci* 9: 164-173.
- Laranjeira, F.F., A.P. dos Santos, A. Dos Santos Brito, A.C.F. Soares, S.C. Cardoso, L.A. de Carvalho, 2012, "Evaluation of tomato rootstocks and its use to control bacterial wilt disease (Abstract)", *Ciências Agrárias* 33: 595-604. (DOI [10.5433/1679-0359.2012v33n2p595](https://doi.org/10.5433/1679-0359.2012v33n2p595))
- Lo, C.T., 1998, "General Mechanism of Action of Microbial Biocontrol Agents", *Plant Pathology Bulletin*, 7: 155-156.
- MacFaddin, J. F., 2000, *Biochemical tests for identification of medical bacteria*, 3rd ed. Lippincott, Williams, and Wilkins, Philadelphia, PA.
- Maji, S. & P.K. Chakrabartty, 2014, "Biocontrol of bacterial wilt of tomato caused by *Ralstonia solanacearum* by isolates of plant growth promoting rhizobacteria", *Australian Journal of Crop Science*, 8: 2008-214.
- Moore, T., L. Globa, J. Barbaree, V. Voydanoy & I. Sorokulova, 2013, "Antagonistic Activity of *Bacillus* Bacteria Against Food-Borne Pathogens", *Jurnal Probiotics & Health*, 1(3): 1-6.
- Notz, R., M. Maurhofer, U. Schnider-Keel, B. Duffy, D. Haas, G. Defago, 2001, "Biotic factors affecting expression of the 2,4-Diacetylphloroglucinol biosynthesis gene *phlA* in *Pseudomonas fluorescens* biocontrol strain CHA0 in the rhizosphere", *Phytopathology* 91: 873-881.
- Nurcahyanti, S.D., 2008, Pengendalian Hayati Penyakit Layu Bakteri (*Ralstonia solanacearum*) pada Solanaceae dengan Strain Avirulen dan *Pseudomonas putida* Strain Pf 20, Tesis: Universitas Gadjah Mada.
- Nurcahyanti, S.D., 2015, Kajian Pengendalian Penyakit Layu Bakteri *Ralstonia solanacearum* pada Tomat dengan Penyambungan, Disertasi: Universitas Gadjah Mada.

- O'Donnell, A.G., 1988, Recognition of novel actinomycetes, dalam: *Actinomycetes in Biotechnology*, Diedit oleh M. Goofellow, S.T. Williams & M. Mordarski, USA: Academic Press Limited, hal. 69–88.
- Palleroni, N.J., 1923, Genus I, *Pseudomonas*, dalam: *Bergey's Manual of Systematic Bacteriology, Second Edition Volume Tru: The Proteobacteria*, Diedit oleh G.M. Garrity, USA: Springer, hal. 323-379.
- Paulilitz, T.C. & J.E. Loper, 1991, “Lack of Role for *Fluorescens* Siderophores Production in the Biological Control of *Pythium* Dumping-off of Cucumber by Stain of *Pseudomonas putida*”, *Phytopathologi*, 81: 1930-1935.
- Pindi, P.K., G. Balakrishna & A.S. Shanker, 2012, “Isolation and Characterization of Actinobacteria from Forest Soil of Mahabubnagar District of Andhra Pradesh, India”, *Int. J. Pharm & Ind. Res* 2: 63-67.
- Prihatiningsih, N, 2013, Aktivitas Antibiosis *Bacillus* sp. B315 sebagai Agens Pengendali Hayati *Ralstonia solanacearum* pada Kentang, Disertasi: Universitas Gadjah Mada.
- Pujianto, 2001, Pemanfaatan Jasad Mikro Jamur Mikoriza dan Bakteri dalam Sistem Pertanian Berkelanjutan di Indonesia, Disertasi: Institut Pertanian Bogor.
- Ran, L.X., C.Y. Liu, G.J. Wu, van Loon, P.A.H.M. Bakker, 2005, “Suppression of bacterial wilt in *Eucalyptus urophylla* by fluorescent *Pseudomonas* spp. in China”, *Biological Control* 32: 111–120.
- Raupach, G.S. & J.W. Kloepper, 1998, “Mixtures of Plant Growth Promoting Rhizobacteria Enhance Biological Control of Multiple Cucumber Pathogens”, *Phytopathology*, 88: 1158–1164.
- Rooney, A.P., N.P.J. Price, C. Ehrhardt, J.L. Swezey & J.D. Bannan, 2009, “Phylogeny and Molecular Taxonomy of the *Bacillus subtilis* Species Complex and Description of *Bacillus subtilis* subsp. *inaquosorum* subsp. nov.”, *International Journal of Systematic and Evolutionary Microbiology*, 59: 2429-2436.
- Rosyidah, A., T. Wardiyati, A. L. Abadi & M. D. Maghfoer, 2013, “Enhancement in Effectiveness of Antagonistic Microbes by Means of Microbial Combination to Control *Ralstonia solanacearum* on Potato Planted in Middle Latitude”, *Agrivita*, 35: 0126-0537.
- Sajid, I., K.A. Shaaban, S. Hasnain, 2011, “ Identification, isolation and optimization of antifungal metabolites from the *Streptomyces malachitofuscus* ctf9”, *Brazilian Journal of Microbiology* 2: 592-604.

- Salle, A.J., 1979, *Fundamental Principle of Bacteriology*, 7thed. New Delhi: Tata McGraw-hill Publishing Company LTD.
- Sarkar, S. & S. Chaudhuri, 2013, "Evaluation of The Biocontrol Potential of *Bacillus subtilis*, *Pseudomonas aeruginosa* and *Trichoderma viridae* Against Bacterial Wilt of Tomato", *Asian Journal of Biological and Life Sciences*, 2: 146-151.
- Sastrahidayat, I.R., 1990, *Ilmu Penyakit Tumbuhan*, Yogyakarta: Gadjah Mada University Press.
- Sausa, C.D.S., A.C.F. Soares & M.D.S. Garrido, 2008, "Characterization of *Streptomyces* with Potensial To Promote Plant Growth and Biocontrol", *Sci. Agric.*, 65:50-55.
- Schaad N.W., J.B. Jones, & W. Chun, 2001, *Laboratory Guide for Identification of Plant Pathogenic Bacteria*, 3rd edition, Minnesota: APS Press.
- Semangun, H., 1996. *Pengantar Ilmu Penyakit Tumbuhan*, Yogyakarta: Gadjah Mada University Press.
- Semangun, H., 2006. *Penyakit-Penyakit Tanaman Hortikultura di Indonesia*, Yogyakarta: Gadjah Mada University Press.
- Slepecky, R.A. & H.E. Hemphill, 1992, The Genus *Bacillus*-Nonmedical, dalam *The Prokaryotes* 2nd ed. *A Handbook on the Biology of Bacteria: Ecophysiology, Isolation, Identification, Applications*, Diedit oleh A. Balows, H.G. Truper, M. Dworkin, W. Harder & K.H. Schleifer, New York: Springer-Verlag Inc., Hal. 1663-1696.
- Srinivasan, R. (Ed.), 2010, *Safer tomato production methods: A field guide for soil fertility and pest management*, Taiwan: AVRDC – The World Vegetable Center, AVRDC Publication No. 10: hal. 740. 97.
- Stolp, H. & D. Gadkari, 1983, Nonpathogenic members of genus *Pseudomonas*, dalam *The Prokaryotes A Handbook on Habitat*, Diedit oleh M.P. Star, H.G. Truper, A. Balows and H.G. Schlegel, New York: Springer-Verlag, hal. 719-714.
- Truong, T.H.H., 2007, Characterisation and mapping of bacterial wilt (*Ralstonia solanacearum*) resistance in the tomato (*Solanum lycopersicum*) cultivar Hawaii 7996 and wild tomato germplasm, Disertasi: University of Hannover.

- Vanitha, S., S. Niranjana, C. Mortensen & S. Umesha, 2009, "Bacterial wilt of tomato in Karnataka and its management by *Pseudomonas fluorescens*", *BioControl*, 54: 685–695.
- Vonderwell, J.D., S.A. Enebak & L.J. Samuelson, 2001, "Influence of Two Plant Growth Promoting Rhizobacteria on Loblolly Pine Root Respiration and IAA Activity", *Forest Science*, 47: 197-202.
- Wang, J. F & C. H. Lin, 2005, "Integrated Management of Bacterial Wilt of Tomatoes", *Asian Vegetable Research Centre Publication*, 5: 615.
- Wei, Z., X. Yang, S. Yin, Q. Shen, W. Ran & Y. Xu, 2011, "Efficacy of Bacillus-Fortified Organic Fertiliser in Controlling Bacterial Wilt of Tomato in the Field", *Appl Soil Ecol*, 48: 152–159.
- Weller, D.M, 1988, "Biological Control of Soilborne Plant Pathogens in the Rhizosphere with Bacteria", *Annual Review of Phytopathology*, 26: 379-407
- Williams, T.S., M. Goodfellow & G. Alderson, 1989, *Genus Streptomyces* Waksman and Henrici, dalam *Bergeys Manual of Systematic Bacteriology*, Diedit oleh M.E. Williams & J.G. Holt, London: Williams and Wilkins, hal. 2452-2492.
- Wuryandari, Y., 1999, *Pencirian Ralstonia solanacearum* dari Beberapa Solanaceae Inang di Yogyakarta, Tesis: Universitas Gadjah Mada.
- Xue, Q., Y. Chen, S. Li, L. Chen, G. Ding, D. Guo & J. Guo, 2009, "Evaluation of the Strains of Acinetobacter and Enterobacter as Potential Biocontrol Agents Against Ralstonia Wilt of Tomato", *Biol Control*, 48:252–258.
- Yabuuchi, E., Y. Kosako, I. Yano, H. Hotta & Y. Nishiuchi, 1995, "Transfer of Two *Burkholderia* and an *Alcaligenes* Species to *Ralstonia* Genus nov.: Proposal of *Ralstonia pickettii* (Ralston, Palleroni and Douderoff 1973) comb.nov., *Ralstonia solanacearum* (Smith 1896) comb. nov. and *Ralstonia eutropha* (Davis 1969) comb. nov.", *Microbiology and Immunology*, 39: 897.