

DAFTAR PUSTAKA

- Addy, H. S., Makoto, F., Ahmed, A., and Takashi, Y. 2012. Utilization of Filamentous Phage RSM3 to Control Bacterial Wilt Caused by *Ralstonia solanacearum*. *Plant Disease*, 96 (8) : 1204-1209.
- Addy, H. S., Askora, A., Kawasaki, K., Fujie, M., & Yamada, T. 2012. The Filamentous Phage ϕ RSS1 enhances virulence of phytopathogenic *Ralstonia solanacearum* on tomato. *Phytopathology*, 102 (3) : 244-251.
- Agrios, GN. 2005. *Plant Pathology*. 5th Ed. Academic Press, New York.
- Akiew E, and Trevorrow PR. 1994. *Management of Bacterial Wilt In Tobacco*. Wallingford : CAB International : 179-198.
- Anonim, 2018. Tomat Amelia <www.matahariseed.com>. Diakses pada tanggal 17 Oktober 2018.
- Anonim. 2014. Berita Resmi PVT : Pendaftaran Varietas Hasil Pemuliaan. <<http://pvtp.pertanian.go.id>> . Diakses pada 17 Oktober 2018.
- Ariyanta, I.P.B., Sudiarta, I.P., Widaningsih, D., Sumiartha, I.K. and Wiryana, G.A.S., 2015. Penggunaan *Trichoderma sp.* dan penyambungan untuk mengendalikan penyakit utama tanaman tomat (*Lycopersicon esculentum* Mill.) di Desa Bangli, Kecamatan Baturiti, Tabanan. *E-Jurnal Agroekoteknologi Tropika*, 4 (1) : 1-15.
- Arlat M. 1993. Studies on the hrp pathogenicity genes from *Pseudomonas solanacearum* GMI1000. ROC, 28-30 October 1992. Canberra: ACIAR : 232-237.
- Arwiyanto T, dan Hartana I. 1999. Pengendalian hayati penyakit layu bakteri tembakau, percobaan rumah kaca. *Jurnal Perlindungan Tanaman Indonesia* 5 (1) : 50-59.
- Arwiyanto, T. 2014. *Ralstonia solanacearum* : Biologi, Penyakit yang Ditimbulkan , dan Pengelolanya. Gadjah Mada University Press, Yogyakarta.
- Arwiyanto, T., 2014. Biological Control of Bacterial Wilt in South East Asia. *Jurnal Perlindungan Tanaman Indonesia*, 18 (2) : 55-64.
- Arwiyanto, T., S. D. Nurcahyanti., D. Indradewa., and J. Widada. 2015. Grafting comercial tomato cultivars with H-7996 and EG-203 to supress bacterial wilt (*Ralstonia solanacearum*) in Indonesia. *Journal Acta Horticultura* 1069 : 173- 177.
- Arwiyanto,T. 2014. *Ralstonia solanacearum* : Biologi, Penyakit yang Ditimbulkan Dan Pengelolanya. Gadjah Mada University Press,Yogyakarta.

- Arwiyanto, T., Triman, B., Sulandari, S. and Suryanti, S., 2016, June. Preliminary test of a local tomato cultivar as a rootstock to control two soil-borne plant pathogens. *Acta Horticultura* 1207 : 51-54.
- Ashari, S. 1995. *Hortikultura Aspek Budaya*. Universitas Indonesia Press. Jakarta.
- Ashelford, K.E., Day, M.J. and Fry, J.C. 2003. Elevated abundance of bacteriophage infecting bacteria in soil. *Appl Environ Microbiol* 69 : 285–289.
- Askora, A., Kawasaki, T., Usami, S., Fujie, M. and Yamada, T., 2009. Host recognition and integration of filamentous phage ϕ RSM in the phytopathogen, *Ralstonia solanacearum*. *Virology*, 384 (1) : 69-76.
- Bae, J.Y., Wu, J., Lee, H.J., Jo, E.J., Murugaiyan, S., Chung, E. and Lee, S.W. 2012. Biocontrol potential of a lytic bacteriophage PE204 against bacterial wilt of tomato. *Journal Microbiol Biotechnol*, 22: 1613-1620.
- Bhunchoth, A., Phironrit, N., Leksomboon, C., Chatchawankanphanich, O., Kotera, S., Narulita, E., Kawasaki, T., Fujie, M. and Yamada, T. 2015. Isolation of *Ralstonia solanacearum*-infecting bacteriophages from tomato fields in Chiang Mai, Thailand, and their experimental use as biocontrol agents. *Journal of applied microbiology*, 118(4) : 1023-1033.
- Black, L.L., Wu, D.L., Wang, J.F., Kalb, T., Abbass, D. and Chen, J.H., 2003. Grafting tomatoes for production in the hot-wet season. *Asian Vegetable Research & Development Center. AVRDC Publication*, 3 : 551.
- BPS. 2017. *Statistik Tanaman Sayuran dan Buah-buahan Semusim Indonesia*. <<http://www.bps.go.id/>> *Produksi Sayuran di Indonesia, 2008-2017*. Diakses 21 Maret 2019.
- Cahyono B 2008. *Tomat; Usahatani dan Penanganan Pascapanen*. Kanisius : Yogyakarta.
- Costa, J.M., E. Heuvelink. 2005. Introduction: The tomato crop and industry. In E.Heuvelink. *Tomatoes, Crop Production Science in Horticulture*:13. CABI Publishing. Wallingford, UK. 1-19.
- Dalimartha S. 2007. *Atlas Tumbuhan Obat Indonesia*. Jakarta: Trubus Agriwidya
- Dhital, S. P., N. Thaveechai and S. K. Shrestha. 2001. Characteristic of *Ralstonia solanacearum* strains of potato wilt disease from Nepal and Thailand. *Nepal Agric* (4 & 5): 42-48.
- Elphinstone JG, Aley P. 1993. Integrated control of bacterial wilt of potato in the warm tropics of Peru. Canberra: ACIAR : 276-283.
- Fegan, M. and Prior, P., 2005. How complex is the *Ralstonia solanacearum* species complex. *Bacterial wilt disease and the Ralstonia solanacearum species complex*, 1 : 449-461.

- Firmanto, B.H. 2011. Sukses Bertanam Tomat Secara Organik. Bandung: Angkasa
- Gabriel, D.W., Allen, C., Schell, M., Denny, T.P., Greenberg, J.T., Duan, Y.P., Flores-Cruz, Z., Huang, Q., Clifford, J.M., Presting, G. and González, E.T., 2006. Identification of open reading frames unique to a select agent: *Ralstonia solanacearum* race 3 biovar 2. *Molecular Plant-Microbe Interactions*, 19(1) : 69-79.
- Goto, M. 1992. *Fundamental of Plant Bacteriology*. Academic Press, Tokyo.
- Grey, B.E. and Steck, T.R. 2001. The Viable But Nonculturable State of *Ralstonia solanacearum* may be Involved in Long-Term Survival and Plant Infection. *Appl. Env. Microbiol.* 67 : 3866-3872.
- Hamidi, A. 2002. Teknik Budidaya Tomat. BKPP Lembang, Jawa Barat
- Handini, Z. V. T. dan A.A. Nawangsih, 2014. Keefektifan Bakteri Endofit dan Bakteri Perakaran Pemacu Pertumbuhan Tanaman dalam Menekan Penyakit Layu Bakteri pada Tomat. *J. Fitol. Indon*, 10 (2) : 61-67
- Hanudin, B., Marwoto, Hersanti and Muharam, A., 2012. Kompatibilitas *Bacillus subtilis*, *Pseudomonas fluorescens*, dan *Trichoderma harzianum* untuk mengendalikan *Ralstonia solanacearum* pada tanaman kentang. *Jurnal Hortikultura*, 22(2) : 173-180.
- Hartman GL, Elphinstone JG. 1994. Advances in the control of *Pseudomonas solanacearum* race 1 in major food crops. Di dalam: Hayward AC, Hartman GJ, editors. *Bacterial wilt: The disease and its causative agent, Pseudomonas solanacearum*. Wallingford : CAB International : 179-198.
- Hayward, A. 2000. *Ralstonia solanacearum*. In J. Lederberg, *Encyclopedia of Microbiology*. Academic Press : San Diego.
- Hayward, A.C. 1964. Characteristics of *Pseudomonas solanacearum*. *J. Appl. Bacteriol.* 27 : 265-277.
- Hayward, A.C. 1994. Systematic and Phylogeny of *Pseudomonas Solanacearum* and Related Bacteria. In Hayward, A.C., Hartan G.L., (Eds), *Bacterial Wilt, The Disease and Its Causative Agent, Pseudomonas solanacearum*. CAB. Wallingford: 123-35.
- Heuvelink, E. 2005. *Tomatoes*. London UK: CABI Publishing.
- Istiqomah, I. and Kusumawati, D.E., 2018. Pemanfaatan *Bacillus subtilis* dan *Pseudomonas fluorescens* dalam pengendalian hayati *Ralstonia solanacearum* penyebab penyakit layu bakteri pada tomat. *Jurnal Agro*, 5(1) : 1-12.
- Jaya, K. Pramana. 2011. Catatan Ringan Agensia Hayati – Kelompok Tani Pengembang Agens Hayati dan Pupuk Organik di Jateng. BPTPH, Ungaran.

- Jones, B. Jr. 2008. Tomato Plant Culture. In the field, Greenhouse and Home Garden. CRC Press. New York.
- Jones, J.B., Jackson, L.E., Balogh, B., Obradovic, A., Iriarte, F.B. and Momol, M.T. 2008. Bacteriophages for plant disease control. *Annu Rev Phytopathol* 45: 245–262.
- Laeshita, P., dan T. Arwiyanto. 2017. Uji ketahanan beberapa varietas tomat terhadap penyakit layu bakteri yang disebabkan oleh *Ralstonia solanacearum*. *Jurnal Perlindungan Tanaman Indonesia*, 21 (1) : 51–53.
- Machmud M. 1993. Control of peanut bacterial wilt through crop rotation. Di dalam: Hartman GL, Hayward AC, editors. Bacterial wilt. Proceedings No.45 of an International Symposium on the ACIAR, Kaohsiung, Taiwan, ROC, 28-30 October 1992. Canberra: ACIAR : 221-224.
- Makari Hanumanthappa, K., Palaniswamy, M. and Angayarkanni, J. 2013. Isolation of lytic bacteriophage against *Ralstonia solanacearum* causing wilting symptoms in ginger (*Zingiber officinale*) and potato (*Solanum tuberosum*) plants. *International Research Journal of Biological Sciences*, 2(11) : 78-84.
- Makruf, E., Johan, S., Erpan, R., Wawan, E. P., Adianto., Heryan, I., Jhon, F., Yuli, O., Siti, R., Ina, H., Sudarwati. 2011. Visitor Plot Perbenih Padi dan Rumah Kaca. Balai Pengkajian Teknologi Pertanian Bengkulu Balai Besar Pengkajian Dan Pengembangan Teknologi Pertanian Badan Penelitian Dan Pengembangan Pertanian Kementerian Pertanian.
- Meng, F. 2013. *Ralstonia solanacearum* species complex and bacterial wilt disease. *J Bacteriol Parasitol* 4 (2): 1-4.
- Nasrun, N., Christanti, C., Arwiyanto, T. And Mariska, I., 2007. Karakteristik fisiologis *Ralstonia solanacearum* penyebab penyakit layu bakteri nilam. *Jurnal Penelitian Tanaman Industri (Industrial Crops Research Journal)*, 13(2) : 43-48.
- Nugroho, A. 2012. Eksplorasi bakteriofage virulen terhadap *Xanthomonas campestris pv. campestris* asal Kopeng untuk mengendalikan busuk hitam kubus. Universitas Negri Sebelas Maret. Skripsi.
- Nurcahyati, S.D. 2015. Kajian Pengendalian Penyakit Layu Bakteri *Ralstonia solanacearum* pada Tomat dengan Penyambungan. Fakultas Pertanian. Universitas Gadjah Mada. Disertasi.
- Pitojo S, 2005. Benih Kacang Tanah. Kanisius, Jakarta
- Purnawati, A., 2014. Endophytic bacteria as biocontrol agents of tomato bacterial wilt disease. *Journal of Tropical Life Science*, 4 (1) : 33-36.
- Purwanto dan B. Tjahjono. 2002. Pengamatan Penyakit Layu Bakteri Pada Tanaman Tomat di Greenhouse dan Penguji Antagonis. 245-251. Dalam

Prosiding Kongr. XVI dan Seminar Ilmiah Nasional PFI. Agustus 2011, Bogor.

- Purwati, E. dan Khairunisa. 2007. Budidaya Tomat Dataran Rendah. Penebar Swadaya. Jakarta.
- Rismunandar. 2001. Tanaman Tomat. Sinar Baru Algesindo: Jakarta
- Rivard. C., and F. Louws. 2011. Grafting for Disease Resistance in Heirloom Tomatoes. North Carolina Cooperative Extension Service, U.S.
- Rivero, R. M., Ruiz & L. Romer. 2003. Role Of Grafting In Horticultural Plants Under Stress Conditions. Food Agriculture Environment.
- Sagar, V., Gurjar, M.S., Arjunan, J., Bakade, R.R., Chakrabarti, S.K., Arora, R.K. and Sharma, S., 2014. Phylotype analysis of *Ralstonia solanacearum* strains causing potato bacterial wilt in Karnataka in India. African Journal of Microbiology Research, 8 (12) : 1277-1281.
- Saputra, R. 2015. Kompatibilitas beberapa bakteri antagonis dalam mengendalikan penyakit layu bakteri (*Ralstonia solanacearum*) pada tomat. Universitas Gadjah Mada. Tesis.
- Sastrahidayat, I. R . 1990. Ilmu Penyakit Tumbuhan. Gadjah Mada University Press : Yogyakarta.
- Schaad, N.W., Jones, J.B. and Chun, W. 2001. Laboratory Guide for identification of Plant Pathogenic Bacteria, 3rd edition. APS Press, St Paul (US).
- Sela, F, A. 2015. Pengujian ketahanan tanaman tomat varietas amelia terhadap *Ralstonia solanacearum* di rumah kaca. Universitas Gadjah Mada. Skripsi.
- Singh, D., Yadav, D.K., Sinha, S. and Upadhyay, B.K., 2012. Utilization of plant growth promoting *Bacillus subtilis* isolates for the management of bacterial wilt incidence in tomato caused by *Ralstonia solanacearum* race 1 biovar 3. Indian Phytopath, 65 (1) : 18-24.
- Sumeru, A. 2006. Hortikultura Aspek Budidaya. Universitas Indonesia Press. Jakarta.
- Tanaka, H., Negishi, H., and Maeda, H. 1990. Control of tobacco bacterial wilt by an avirulent strain of *Pseudomonas solanacearum* M4S and its bacteriophage. Annals. Phytopathological Society of Japan, 56 (2) : 243-246.
- Trianom, B., Arwiyanto, T. and Joko, T., 2018. Perancangan Primer Spesifik Subspesies Berbasis Gen Endoglukanase untuk Deteksi *Ralstonia syzygii subsp. syzygii* Development of Novel Subspecies-Specific Primers Based on the Endoglukanase Gene for Detection of *Ralstonia syzygii subsp. syzygii*. Jurnal Perlindungan Tanaman Indonesia, 22 (2) : 124-131.

- Trisilawati, O., E. Djauhariya, H. Nurhayati, Samsudin, M. Djazuli, Jaenudin dan Kuswadi. 2005. Perbaikan teknik penyambungn lada potensi produksi tinggi dengan lada tahan penyakit. Laporan Teknis, Balitro. Buku 1: 98-112.
- Tugiyono, Herry. 2007. Bertanam Tomat. Penebar Swadaya. Jakarta.
- Wiriyanta, W. 2002. Bertanam tomat.. Jakarta: Agromedia Pustaka.
- Yamada, T. 2012. Bacteriophages of *Ralstonia solanacearum*: their diversity and utilization as biocontrol agents in agriculture. In Bacteriophages ed. Kurtboke, I : 113–139. Rijeka, Croatia: InTech-Open Access Publisher.
- Yamada, T., Takeru Kawasaki., Shoko Nagata., Akiko Fujiwara., Shoji Usami. and Makoto Fujie. 2007. New bacteriophages that infect the phytopathogen *Ralstonia solanacearum*, Microbiology, 153 : 2630–2639.
- Yuwono. 2005. Biologi Molekuler. Jakarta : Erlangga.
- Zahro'in, E dan F. Ernawati. 2013. Perkembangan Serangan *Ralstonia Solanacearum* Pada Triwulan Ii Tahun 2013 Wilayah Kerja Bbpptp Surabaya. <<http://ditjenbun.pertanian.go.id/>> . Diakses 18 Oktober 2018.