

## DAFTAR PUSTAKA

- Addy, H. S., A. Askora, T. Kawasaki, M. Fujie, and T. Yamada. 2012. Loss of virulence of the phytopathogen *Ralstonia solanacearum* through infection by  $\phi$ RSM filamentous phages. *Phytopathology* 162 (5): 469 – 477. DOI <http://dx.doi.org/10.1094/PHYTO-11-11-0319-R>.
- Alvarez, B., M. M. Lopez, and E. G. Biosca. 2008. Survival strategies and pathogenicity of *Ralstonia solanacearum* phylotype II subjected to prolonged starvation in environmental water microcosms. *Microbiology*. 154 (11): 3590 – 3598. DOI [10.1099/mic.0.2008/019448-0](https://doi.org/10.1099/mic.0.2008/019448-0).
- Anonim. 2021. *Solanum lycopersicum* (tomato). <<https://www.cabi.org/isc/datasheet/31837>>. Diakses 03 Oktober 2021.
- Anonim. 2021. *Ralstonia solanacearum* (bacterial wilt of potato). <<https://www.cabi.org/isc/datasheet/45009>>. Diakses tanggal 03 Oktober 2021.
- Anonim. 2022. Tomat: Tomat Unggulan Amelia. <<http://www.matahariseed.id/produk.php?edit=Tomat>>. Diakses tanggal 23 April 2022.
- Arwiyanto, T., dan I. Hartana. 1999. Pengendalian hayati layu bakteri tembakau, percobaan rumah kaca. *Jurnal Perlindungan Tanaman Indonesia* 5(1): 50-59. DOI <https://doi.org/10.22146/jpti.9967>.
- Arwiyanto, T. 2014. *Ralstonia solanacearum*: Biologi, Penyakit yang Ditimbulkan dan Pengelolaannya. Gadjah Mada University Press, Yogyakarta.
- Ausubel, F. M., B. Roger, E. K. Robert, D. M. David, J. G. Seidman, A. S. John, and S. Kevin. 2010. *Current Protocols in Molecular Biology*. John Wiley & Sons, New Jersey.
- Cho, H., E. S. Song, Y. K. Lee, S. Lee, S. W. Lee, A. Jo, B. M. Lee, J. G. Kim and I. Hwang. 2018. Analysis of Genetic and Pathogenic Diversity of *Ralstonia solanacearum* Causing Potato Bacterial Wilt in Korea. *The Plant Pathology Journal* 34 (1): 23 – 34. DOI [10.5423/PPJ.FT.09.2017.0203](https://doi.org/10.5423/PPJ.FT.09.2017.0203).

- Cholih, F. A., M. Martosudiro, Istiqomah, dan M. F. Nijami. 2020. Isolasi dan uji kemampuan bakteriofag sebagai agens pengendali penyakit layu bakteri (*Ralstonia solanacearum*) pada tanaman tomat. Jurnal Viabel Pertanian 14 (1): 8 – 20.
- Ciampi, L., and L. Sequeira. 1980. Influence of temperature on virulence of race 3 strains of *Pseudomonas solanacearum*. American Potato Journal 57 (7): 307 – 317. DOI <https://doi.org/10.1007/BF02854025>.
- Costa, K. D. S., P. R. Santos, A. M. M. Santos, A. M. F. Silva, J. T. B. Chagas, J. L. S. C. Filho, J. W. L. Pereira, M. O. Silva, J. R. Silva, and D. Menezes. 2019. Genetic control of tomato resistance to *Ralstonia solanacearum*. Euphytica 215 (136): 1 – 11. DOI <https://doi.org/10.1007/s10681-019-2458-6>.
- Diyanti, E. 2021. Pengendalian Penyakit Layu Bakteri Tomat dengan Strain Avirulen *Ralstonia solanacearum* dan Bakteriofag. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Dowarah, B., H. Agarwal, D. B. Krishnatreya, P. L. Sharma, N. Kalita, and N. Agarwala. 2021. Evaluation of seed associated endophytic bacteria from tolerant chilli cv. Firingi Jolokia for their biocontrol potential against bacterial wilt disease. Microbiological Research 248 (2021): 1 – 11. DOI <https://doi.org/10.1016/j.micres.2021.126751>.
- Effendi, B. S. 2009. Strategi pengendalian hama terpadu tanaman padi dalam perspektif praktek pertanian yang baik (*good agricultural practices*). Pengembangan Inovasi Pertanian 2 (1): 65 – 78.
- Farid, M. M., G. Susianto, N. R. Dhany, N. F. Azizi, and S. R. Resita. 2013. Pemanfaatan bakteriofag untuk pengembangan KIT deteksi bakteri penyebab hawar bakteri pada kedelai. Program Kreativitas Mahasiswa-Penelitian: 1 – 7.
- Genin, S., and T. P. Denny. 2012. Pathogenomics of the *Ralstonia solanacearum* species complex. Annual Review of Phytopathology 50: 67 – 89. DOI <https://doi.org/10.1146/annurev-phyto-081211-173000>.
- Goodridge, L. D. Bacteriophage biocontrol of plant pathogens: fact or fiction?. TRENDS in Biotechnology 22 (8): 384 – 385. DOI <https://doi.org/10.1016/j.tibtech.2004.05.007>.

- Gunaeni, N., W. Setiawati, dan Y. Kusandriani. 2014. Pengaruh perangkap likat kuning, ekstrak *Tagetes erecta*, dan imidacloprid terhadap perkembangan vektor kutukebul dan virus kuning keriting pada tanaman cabai merah (*Capsicum annum* L.). Jurnal Hortikultura 24 (4): 346 – 354.
- Irvan. 2019. Budidaya Tomat. <http://cybex.pertanian.go.id/mobile/artikel/84547/BUDIDAYA--TOMAT/>. Diakses tanggal 03 Oktober 2021.
- Istiqomah, dan D. E. Kusumawati. 2018. Pemanfaatan *Bacillus subtilis* dan *Pseudomonas fluorescens* dalam pengendalian hayati *Ralstonia solanacearum* penyebab penyakit layu bakteri pada tomat. Jurnal Agro 5 (1): 1 – 12. DOI <https://doi.org/10.15575/2305>.
- Kasman, L. M., and L. D. Porter. 2021. Bacteriophages. <https://www.ncbi.nlm.nih.gov/books/NBK493185/>. Diakses tanggal 11 Desember 2021.
- Lubis, E. R. 2020. Bercocok Tanam Tomat, Untung Melimpah. Penerbit Bhuana Ilmu Populer Kelompok Gramedia, Jakarta.
- Makari, H. K., M. Palaniswamy, and J. Angayarkanni. 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 Science 2 (11): 506 – 513.
- Mamphogoro, T. P., C. N. Kamutando, M. M. Maboko, O. A. Aiyegoro, and O. O. Babalola. Epiphytic bacteria from sweet pepper antagonistic in vitro to *Ralstonia solanacearum* BD 261, a causative agent of bacterial wilt. Microorganisms. 9 (9): 1-16. DOI <https://doi.org/10.3390/microorganisms9091947>.
- Milling, A., L. Babujee, and C. Allen. 2011. *Ralstonia solanacearum* extracellular polysaccharide is a specific elicitor of defense responses in wilt-resistant tomato plants. PLoS One 6 (1): 1 – 10. DOI 10.1371/journal.pone.0015853.
- Mutimawurugo, M. C., I. N. Wagara, J. B. Muhinyuza, and J. O. Ogweni. 2019. Virulence and characterization of isolates of potato bacterial wilt caused by *Ralstonia solanacearum* (Smith) in Rwanda. African Journal of Agricultural Research 14 (6): 311 – 320. DOI 10.5897/AJAR2018.13686.

- Nasrun, Christanti, T. Arwiyanto, dan I. Mariska. 2005. Pengendalian penyakit layu bakteri nilam menggunakan *Pseudomonas fluorescens*. Jurnal Littri 11 (1): 19 – 24.
- Nugrahaeni, N. 2011. Pemuliaan kacang tanah untuk ketahanan terhadap layu bakteri *Ralstonia* di Indonesia. Buletin Palawija 21 (2011): 1 – 12.
- Nuryani, W., E. S. Yusuf, I. Djantika, Hanudin, dan B. Marwoto. 2011. Pengendalian penyakit layufusarium pada subang gladiol dengan pengasapan dan biopestisida. Jurnal Hortikultura. 21 (1): 40 – 50. DOI <http://dx.doi.org/10.21082/jhort.v21n1.2011.p40-50>.
- Oktafiyanto, M.F., A. Munif, and K. H. Mutaqin. 2018. Aktivitas Antagonis Bakteri Endofit Asal Mangrove terhadap *Ralstonia solanacearum* dan *Meloidogyne* spp. Jurnal Fitopatologi Indonesia 14 (1): 23 – 29. DOI 10.14692/jfi.14.1.23.
- Popoola, A. R., S. A. Ganiyu, O. A. Enikuomelin, J. G. Bodunde, O. B. Adedibu, H. A. Durosomo, and O. A. Karunwi. 2015. Isolation and characterization of *Ralstonia solanacearum* causing bacterial wilt of tomato in Nigeria. Nigerian Journal of Biotechnology 29 (2015): 1 – 10. DOI <http://dx.doi.org/10.4314/njb.v29i1.1>.
- Rahayu, M. 2015. Penyakit layu bakteri bioekologi dan cara pengendaliannya. Monograf Balitkabi 13: 284 – 305.
- Restina, D. 2019. Penyambungan Tomat Servo dengan Batang Bawah Varietas H-7996 dan Aplikasi Bakteriofag untuk Pengendalian Layu Bakteri (*Ralstonia solanacearum*). Skripsi. Fakultas Pertanian Universitas Gadjah Mada, Yogyakarta.
- Roff, A., K. Wilding, S. Downing, D. Handerson, C. Keilty, N. Powling, B. Marcus, W. Penn, S. Charbonnier, C. Lusiak, T. Cole, and P. Fallon. 2009. Tomato. DK Publishing, New York.
- Romo, J. P., J. G. M. Osorio, & M. S. Yepes. Identification of new hosts for *Ralstonia solanacearum* (Smith) race 2 from Colombia. Rev. Protection Veh 27 (3): 151 – 161.
- Sagar, V., A. Jeevalatha, S. Mian, S. K. Chakrabarti, M. S. Gurjar, R. K. Arora, S. Sharma, R. R. Bakade and B. P. Singh. 2014. Potato bacterial wilt in India caused by strains of phylotype I, II, and IV *Ralstonia solanacearum*. European Journal of Plant Pathology 138 (1):51 – 65. DOI 10.1007/s10658-013-0299-z.

- Schaad, N. W., J. B. Jones, and W. Chun. 2001. Laboratory guide for identification of plant pathogenic bacteria. Third Edition. APS Press, Minnesota.
- Semangun, H. 2004. Penyakit-penyakit tanaman hortikultura di Indonesia. UGM Press, Yogyakarta.
- Singh, N., T. Phukan, P. L. Sharma, K. Kabyashree, A. Barman, R. Kumar, R. V. Sonti, S. Genin, and S. K. Ray. 2018. An innovative root inoculation method to study *Ralstonia solanacearum* pathogenicity in tomato seedlings. *Phytopathology* 108 (4): 436 – 442. DOI <https://doi.org/10.1094/PHYTO-08-17-0291-R>.
- Thontowi, A., Kusmiati, dan S. Nuswantara. 2007. Produksi  $\beta$ -Glukan *Saccharomyces cerevisiae* dalam media dengan sumber nitrogen berbeda pada *Air-Lift Fermentor*. *Biodiversitas* 8 (4): 253 – 256. DOI 10.13057/biodiv/d080401.
- Verma, R., A. Dutta, A. K. Choudhary, & S. Maurya. 2014. Control of *Ralstonia solanacearum* infection in tomato, brinjal and capsicum by antibiotic sensitivity test. *Journal of Advanced Laboratory Research in Biology* 5 (3): 35 – 40.
- Vu, N. T., and C. S. Oh. 2020. Bacteriophage usage for bacterial disease management and diagnosis in plants. *Plant pathology Journal* 36 (3): 204 – 217. DOI [10.5423/PPJ.RW.04.2020.0074](https://doi.org/10.5423/PPJ.RW.04.2020.0074).
- Wang, X., Z. Wei, K. Yang, J. Wang, A. Jousset, Y. Xu, Q. Shen, & V. Friman. 2019. Phage combination therapies for bacterial wilt disease in tomato. *Nature biotechnology* 37: 1513 – 1520. DOI <https://doi.org/10.1038/s41587-019-0328-3>.
- Wiryanta, B. T. W. 2002. Betani Tomat. PT AgroMedia Pustaka, Jakarta Selatan.
- Xue, H., R. L. Duran, and A. P. Macho. 2020. Insights into the root invasion by the plant pathogenic bacterium *Ralstonia solanacearum*. *MDPI Plants* 9 (516): 1 – 9. DOI 10.3390/plants9040516.
- Yamada, T., T. Kawasaki, S. Nagata, A. Fujiwara, S. Usami, and M. Fujie. 2007. New bakteriofag that infect the phytopathogen *Ralstonia solanacearum*. *Microbiology* 153 (2007): 2630 – 2639. DOI 10.1099/mic.0.2006/001453-0.

Yao, J., and C. Allen. 2007. The plant pathogen *Ralstonia solanacearum* needs aerotaxis for normal biofilm formation and interactions with its tomato host. Journal of Bacteriology 189 (17): 6415 – 6424. DOI [10.1128/JB.00398-07](https://doi.org/10.1128/JB.00398-07).