

## DAFTAR PUSTAKA

- Ahmed, M. Z., de Barro, P. J., Ren, S. X., Greeff, J. M., & Qiu, B. L. (2013). Evidence for Horizontal Transmission of Secondary Endosymbionts in the *Bemisia tabaci* Cryptic Species Complex. *PLoS ONE*, 8(1), 20–24. <https://doi.org/10.1371/journal.pone.0053084>
- Ahmed, M. Z., Li, S. J., Xue, X., Yin, X. J., Ren, S. X., Jiggins, F. M., Greeff, J. M., & Qiu, B. L. (2015). The Intracellular Bacterium *Wolbachia* Uses Parasitoid Wasps as Phoretic Vectors for Efficient Horizontal Transmission. *PLoS Pathogens*, 11(2), 1–19. <https://doi.org/10.1371/journal.ppat.1004672>
- Ahmed, M. Z., Ren, S. xiang, Xue, X., Li, X. X., Jin, G. hua, & Qiu, B. L. (2010). Prevalence of endosymbionts in *Bemisia tabaci* populations and their in vivo sensitivity to antibiotics. *Current Microbiology*, 61(4), 322–328. <https://doi.org/10.1007/S00284-010-9614-5>
- Ahmed, M. Z., xiang Ren, S., Xue, X., Li, X. X., hua Jin, G., & Qiu, B. L. (2010). Prevalence of endosymbionts in *Bemisia tabaci* populations and their in vivo sensitivity to antibiotics. *Current Microbiology*, 61(4), 322–328. <https://doi.org/10.1007/s00284-010-9614-5>
- Anders, K. L., Indriani, C., Ahmad, R. A., Tantowijoyo, W., Arguni, E., Andari, B., Jewell, N. P., Dufault, S. M., Ryan, P. A., Tanamas, S. K., Rancès, E., O'Neill, S. L., Simmons, C. P., & Utarini, A. (2020). Update to the AWED (Applying *Wolbachia* to Eliminate Dengue) trial study protocol: A cluster randomised controlled trial in Yogyakarta, Indonesia. *Trials*, 21(1), 1–16. <https://doi.org/10.1186/s13063-020-04367-2>
- Andreason, S. A., Shelby, E. A., Moss, J. B., Moore, P. J., Moore, A. J., & Simmons, A. M. (2020). Whitefly endosymbionts: Biology, evolution, and plant virus interactions. *Insects*, 11(11), 1–19. <https://doi.org/10.3390/insects11110775>
- Bernatová, S., Samek, O., Pilát, Z., Šerý, M., Ježek, J., Ják, P., Šiler, M., Krzyžánek, V., Zemánek, P., Holá, V., Dvoráková, M., & Ružicka, F. (2013). Following the Mechanisms of Bacteriostatic versus Bactericidal Action Using Raman Spectroscopy. *Molecules*, 18(11), 13188. <https://doi.org/10.3390/MOLECULES181113188>
- Bigiotti, G., Pastorelli, R., Belcari, A., & Sacchetti, P. (2019). Symbiosis interruption in the olive fly: Effect of copper and propolis on *Candidatus Erwinia dacicola*. *Journal of Applied Entomology*, 143(4), 357–364. <https://doi.org/10.1111/jen.12614>
- Boykin, L. M., Shatters, R. G., Rosell, R. C., McKenzie, C. L., Bagnall, R. A., De Barro, P., & Frohlich, D. R. (2007). Global relationships of *Bemisia tabaci* (Hemiptera: Aleyrodidae) revealed using Bayesian analysis of mitochondrial COI DNA sequences. *Molecular Phylogenetics and Evolution*, 44(3), 1306–1319. <https://doi.org/10.1016/j.ympev.2007.04.020>
- Burban, C., Fishpool, L. D. C., Fauquet, C., Fargette, D., & Thouvenel, J. -C. (1992). Host-associated biotypes within West African populations of the

whitefly *Bemisia tabaci* (Genn.), (Hom., Aleyrodidae). *Journal of Applied Entomology*, 113(1-5), 416–423. <https://doi.org/10.1111/j.1439-0418.1992.tb00682.x>

Calle-Espinosa, J., Ponce-de-Leon, M., Santos-Garcia, D., Silva, F. J., Montero, F., & Peretó, J. (2016). Nature lessons: The whitefly bacterial endosymbiont is a minimal amino acid factory with unusual energetics. *Journal of Theoretical Biology*, 407, 303–317. <https://doi.org/10.1016/j.jtbi.2016.07.024>

Chiel, E., Kelly, S. E., Harris, A. M., Gebiola, M., Li, X., Zchori-Fein, E., & Hunter, M. S. (2014). Characteristics, phenotype, and transmission of wolbachia in the sweet potato whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae), and its parasitoid *Eretmocerus* sp. nr. *emiratus* (Hymenoptera: Aphelinidae). *Environmental Entomology*, 43(2), 353–362. <https://doi.org/10.1603/EN13286>

Cuthbertson, A. (2022). *Bemisia tabaci* (tobacco whitefly). *CABI Compendium*, *CABI Compendium*. <https://doi.org/10.1079/CABICOMPENDIUM.8927>

De Barro, P. J. (2012). The *Bemisia tabaci* Species Complex: Questions to Guide Future Research. *Journal of Integrative Agriculture*, 11(2), 187–196. [https://doi.org/10.1016/S2095-3119\(12\)60003-3](https://doi.org/10.1016/S2095-3119(12)60003-3)

De Marchi, B. R., & Smith, H. A. (2020). Bacterial endosymbiont diversity among *Bemisia tabaci* (Hemiptera: Aleyrodidae) populations in Florida. *Insects*, 11(3). <https://doi.org/10.3390/insects11030179>

Engel, P., & Moran, N. A. (2013). The gut microbiota of insects - diversity in structure and function. *FEMS Microbiology Reviews*, 37(5), 699–735. <https://doi.org/10.1111/1574-6976.12025>

Gangwar, R., & Gangwar, C. (2018). Lifecycle, Distribution, Nature of Damage and Economic Importance of Whitefly, *Bemisia tabaci* (Gennadius). *Acta Scientific Agriculture*, 2(4), 36–39.

Gueguen, G., Vavre, F., Gnankine, O., Peterschmitt, M., Charif, D., Chiel, E., Gottlieb, Y., Ghanim, M., Zchori-Fein, E., & Fleury, F. (2010). Endosymbiont metacommunities, mtDNA diversity and the evolution of the *Bemisia tabaci* (Hemiptera: Aleyrodidae) species complex. *Molecular Ecology*, 19(19), 4365–4376. <https://doi.org/10.1111/J.1365-294X.2010.04775.X>

Hashmi, T. R., Devi, S. R., Ahmad, A., Meshram, N. M., & Prasad, R. (2019). Genetic Status and Endosymbionts Diversity of *Bemisia tabaci* (Gennadius) on Hosts Belonging to Family Malvaceae in India. *Neotropical Entomology*, 48(2), 207–218. <https://doi.org/10.1007/s13744-018-0639-y>

Henneberry, T. J., Castle, S. J., Kerry, F. H., Oney, P. S., & James, E. D. (2001). *Bemisia*: Pest Status, Economics, Biology, and Population Dynamics. In *Virus-Insect-Plant Interactions*.

Hidayat, P., Yuliani, Y., & Sartiami, D. (2017). Identifikasi kutukebul (Hemiptera: Aleyrodidae) dari beberapa tanaman inang dan perkembangan populasinya. *Jurnal Entomologi Indonesia*, 3(1), 41. <https://doi.org/10.5994/jei.3.1.41>

- Hu, F. Y., & Tsai, C. W. (2020). Nutritional relationship between *bemisia tabaci* and its primary endosymbiont, *portiera aleyrodidarum*, during host plant acclimation. *Insects*, 11(8), 1–13. <https://doi.org/10.3390/insects11080498>
- Irawan, A., Ali, S., Miroslav, Ç., Çiğdem, G., Serçe, U., & Ertunç, F. (2023). *Molecular analysis of prune dwarf virus reveals divergence within non- Turkish and Turkish viral populations.*
- Janda, J. M., & Abbott, S. L. (2007). 16S rRNA gene sequencing for bacterial identification in the diagnostic laboratory: Pluses, perils, and pitfalls. *Journal of Clinical Microbiology*, 45(9), 2761–2764. <https://doi.org/10.1128/JCM.01228-07>
- Jones, D. R. (2003). Plant viruses transmitted by whiteflies. *European Journal of Plant Pathology*, 109(3), 195–219. <https://doi.org/10.1023/A:1022846630513>
- Kanakala, S., & Id, G. (2019). *Global genetic diversity and geographical distribution of Bemisia tabaci and its bacterial endosymbionts.* <https://doi.org/10.1371/journal.pone.0213946>
- Kedar, S. C., Saini, R. K., & Kumaranag, K. M. (2014). Biology of cotton whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae) on cotton. *Journal of Entomological Research*, 38(2), 135–139.
- Khatun, M. F., Jahan, S. M. H., Lee, S., & Lee, K. Y. (2018). Genetic diversity and geographic distribution of the *Bemisia tabaci* species complex in Bangladesh. *Acta Tropica*, 187(May), 28–36. <https://doi.org/10.1016/j.actatropica.2018.07.021>
- Lestari, S. M., Hidayat, P., Hidayat, S. H., Shim, J. K., & Lee, K. Y. (2021). *Bemisia tabaci* in Java, Indonesia: genetic diversity and the relationship with secondary endosymbiotic bacteria. *Symbiosis*, 83(3), 317–333. <https://doi.org/10.1007/s13199-021-00752-w>
- Li, S. J., Ahmed, M. Z., Lv, N., Shi, P. Q., Wang, X. M., Huang, J. L., & Qiu, B. L. (2017). Plantmediated horizontal transmission of Wolbachia between whiteflies. *ISME Journal*, 11(4), 1019–1028. <https://doi.org/10.1038/ismej.2016.164>
- Liu, X. D., & Guo, H. F. (2019). Importance of endosymbionts Wolbachia and Rickettsia in insect resistance development. *Current Opinion in Insect Science*, 33, 84–90. <https://doi.org/10.1016/j.cois.2019.05.003>
- Lv, N., Peng, J., He, Z. Q., Wen, Q., Su, Z. Q., Ali, S., Liu, C. Z., & Qiu, B. L. (2023). The Dynamic Distribution of Wolbachia and Rickettsia in Asiall1 *Bemisia tabaci*. *Insects*, 14(4). <https://doi.org/10.3390/insects14040401>
- Mahmood, M. A., Naqvi, R. Z., Siddiqui, H. A., Amin, I., & Mansoor, S. (2022). Current knowledge and implementations of *Bemisia tabaci* genomic technologies for sustainable control. *Journal of Pest Science*, 0123456789. <https://doi.org/10.1007/s10340-022-01520-5>
- Milenovic, M., Ghanim, M., Hoffmann, L., & Rapisarda, C. (2022). Whitefly endosymbionts: IPM opportunity or tilting at windmills? *Journal of Pest*

*Science*, 95(2), 543–566. <https://doi.org/10.1007/s10340-021-01451-7>

- Milenovic, M., Gouttepifre, A., Eickermann, M., Junk, J., & Rapisarda, C. (2022). Plant-mediated rifampicin treatment of *Bemisia tabaci* disrupts but does not eliminate endosymbionts. *Scientific Reports*, 12(1), 1–15. <https://doi.org/10.1038/s41598-022-24788-0>
- Montllor, C. B., Maxmen, A., & Purcell, A. H. (2002). Facultative bacterial endosymbionts benefit pea aphids *Acyrtosiphon pisum* under heat stress. *Ecological Entomology*, 27(2), 189–195. <https://doi.org/10.1046/j.1365-2311.2002.00393.x>
- Morin, S., Ghanim, M., Zeidan, M., Czosnek, H., Verbeek, M., & Van Den Heuvel, J. F. J. M. (1999). A GroEL Homologue from Endosymbiotic Bacteria of the Whitefly *Bemisia tabaci* Implicated in the Circulative Transmission of Tomato Yellow Leaf Curl Virus. *Virology*, 256(1), 75–84. <https://doi.org/10.1006/VIRO.1999.9631>
- Nirgianaki, A., Banks, G. K., Frohlich, D. R., Veneti, Z., Braig, H. R., Miller, T. A., Bedford, I. D., Markham, P. G., Savakis, C., & Bourtzis, K. (2003). Wolbachia infections of the whitefly *Bemisia tabaci*. *Current Microbiology*, 47(2), 93–101. <https://doi.org/10.1007/s00284-002-3969-1>
- Oliver, K. M., Russell, J. A., Morant, N. A., & Hunter, M. S. (2003). Facultative bacterial symbionts in aphids confer resistance to parasitic wasps. *Proceedings of the National Academy of Sciences of the United States of America*, 100(4), 1803–1807. <https://doi.org/10.1073/pnas.0335320100>
- Opatovsky, I., Santos-Garcia, D., Ruan, Z., Lahav, T., Ofaim, S., Mouton, L., Barbe, V., Jiang, J., Zchori-Fein, E., & Freilich, S. (2018). Modeling trophic dependencies and exchanges among insects' bacterial symbionts in a host-simulated environment. *BMC Genomics*, 19(1), 1–14. <https://doi.org/10.1186/s12864-018-4786-7>
- Ou, D., Ren, L. M., Liu, Y., Ali, S., Wang, X. M., Ahmed, M. Z., & Qiu, B. L. (2019). Compatibility and efficacy of the parasitoid *Eretmocerus hayati* and the entomopathogenic fungus *cordyceps javanica* for biological control of whitefly *Bemisia tabaci*. *Insects*, 10(12), 1–11. <https://doi.org/10.3390/insects10120425>
- Pan, H., Li, X., Ge, D., Wang, S., Wu, Q., Xie, W., Jiao, X., Chu, D., Liu, B., Xu, B., & Zhang, Y. (2012). Factors affecting population dynamics of maternally transmitted endosymbionts in *bemisia tabaci*. *PLoS ONE*, 7(2), 1–8. <https://doi.org/10.1371/journal.pone.0030760>
- Park, J., Jahan, S. M. H., Song, W. G., Lee, H., Lee, Y. S., Choi, H. S., Lee, K. S., Kim, C. S., Lee, S., & Lee, K. Y. (2012). Identification of biotypes and secondary endosymbionts of *Bemisia tabaci* in Korea and relationships with the occurrence of TYLCV disease. *Journal of Asia-Pacific Entomology*, 15(1), 186–191. <https://doi.org/10.1016/j.aspen.2011.10.005>
- Perring, T. M. (2001). The *Bemisia tabaci* species complex. *Crop Protection*, 20(9), 725–737. [https://doi.org/10.1016/S0261-2194\(01\)00109-0](https://doi.org/10.1016/S0261-2194(01)00109-0)

- Perring, T. M., Cooper, A. D., Rodriguez, R. J., Farrar, C. A., & Bellows, T. S. (1993). Identification of a whitefly species by genomic and behavioral studies. *Science*, 259(5091), 74–77. <https://doi.org/10.1126/science.8418497>
- Perring, T. M., Stansly, P. A., Liu, T. X., Smith, H. A., & Andreason, S. A. (2018). Whiteflies: Biology, Ecology, and Management. *Sustainable Management of Arthropod Pests of Tomato*, 73–110. <https://doi.org/10.1016/B978-0-12-802441-6.00004-8>
- Rahayuwati, S., Hidayat, P., & Hidayat, S. H. (2020). Variasi morfologi puparium *Bemisia tabaci* (Gennadius) (Hemiptera: Aleyrodidae) pada berbagai inang dan ketinggian tempat dari daerah endemik penyakit kuning cabai di Wilayah Sundaland. *Jurnal Entomologi Indonesia*, 17(2), 61. <https://doi.org/10.5994/jei.17.2.61>
- Raina, H. S., Rawal, V., Singh, S., Daimei, G., Shakarad, M., & Rajagopal, R. (2015). Elimination of *Arsenophonus* and decrease in the bacterial symbionts diversity by antibiotic treatment leads to increase in fitness of whitefly, *Bemisia tabaci*. *Infection, Genetics and Evolution*, 32, 224–230. <https://doi.org/10.1016/j.meegid.2015.03.022>
- Ruan, Y. M., Xu, J., & Liu, S. S. (2006). Effects of antibiotics on fitness of the B biotype and a non-B biotype of the whitefly *Bemisia tabaci* - Ruan - 2006 - *Entomologia Experimentalis et Applicata* - Wiley Online Library. *Entomologia Experimentalis et ...*, 159–166. <http://onlinelibrary.wiley.com/doi/10.1111/j.1570-8703.2006.00466.x/full>
- Sani, I., Ismail, S. I., Abdullah, S., & Jalinas, J. (2020). with Special Reference to Biological Control. *Insects*, 11, 18.
- Sani, I., Izera Ismail, S., Abdullah, S., Jalinas, J., Jamian, S., & Saad, N. (2020). *insects A Review of the Biology and Control of Whitefly, Bemisia tabaci (Hemiptera: Aleyrodidae), with Special Reference to Biological Control Using Entomopathogenic Fungi*. 11, 619. <https://doi.org/10.3390/insects11090619>
- Serio, A. W., Keepers, T., Andrews, L., & Krause, K. M. (2018). Aminoglycoside Revival: Review of a Historically Important Class of Antimicrobials Undergoing Rejuvenation. *EcoSal Plus*, 8(1). <https://doi.org/10.1128/ECOSALPLUS.ESP-0002-2018>
- Shan, H. W., Zhang, C. R., Yan, T. T., Tang, H. Q., Wang, X. W., Liu, S. S., & Liu, Y. Q. (2016). Temporal changes of symbiont density and host fitness after rifampicin treatment in a whitefly of the *Bemisia tabaci* species complex. *Insect Science*, 23(2), 200–214. <https://doi.org/10.1111/1744-7917.12276>
- Shi, P., He, Z., Li, S., An, X., Lv, N., Ghanim, M., Cuthbertson, A. G. S., Ren, S. X., & Qiu, B. L. (2016). Wolbachia has two different localization patterns in whitefly *Bemisia tabaci* Asiatic species. *PLoS ONE*, 11(9), 1–12. <https://doi.org/10.1371/journal.pone.0162558>
- Singh, S. T., Priya, N. G., Kumar, J., Rana, V. S., Ellango, R., Joshi, A., Priyadarshini, G., Asokan, R., & Rajagopal, R. (2012). Diversity and phylogenetic analysis of endosymbiotic bacteria from field caught *Bemisia*



- tabaci* from different locations of North India based on 16S rDNA library screening. *Infection, Genetics and Evolution*, 12(2), 411–419. <https://doi.org/10.1016/j.meegid.2012.01.015>
- Stouthamer, R., Breeuwer, J. A. J., & Hurst, G. D. D. (1999). *Wolbachia pipientis*: Microbial manipulator of arthropod reproduction. *Annual Review of Microbiology*, 53, 71–102. <https://doi.org/10.1146/annurev.micro.53.1.71>
- Struck, T. H., & Cerca, J. (2019). Cryptic Species and Their Evolutionary Significance. *eLS*, 1–9. <https://doi.org/10.1002/9780470015902.a0028292>
- Su, Q., Xie, W., Wang, S., Wu, Q., Ghanim, M., & Zhang, Y. (2014). Location of symbionts in the whitefly *Bemisia tabaci* affects their densities during host development and environmental stress. *PLoS ONE*, 9(3), 1–11. <https://doi.org/10.1371/journal.pone.0091802>
- Telschow, A., Yamamura, N., & Werren, J. H. (2005). Bidirectional cytoplasmic incompatibility and the stable coexistence of two *Wolbachia* strains in parapatric host populations. *Journal of Theoretical Biology*, 235(2), 265–274. <https://doi.org/10.1016/j.jtbi.2005.01.008>
- Venkataravanappa, V., Kodandaram, M. H., Prasanna, H. C., Reddy, M. K., & Reddy, C. N. L. (2023). Unraveling different begomoviruses, DNA satellites and cryptic species of *Bemisia tabaci* and their endosymbionts in vegetable ecosystem. *Microbial Pathogenesis*, 174(November 2022), 105892. <https://doi.org/10.1016/j.micpath.2022.105892>
- Vidaver, A. K. (2002). Uses of antimicrobials in plant agriculture. *Clinical Infectious Diseases*, 34(SUPPL. 3), 107–110. <https://doi.org/10.1086/340247>
- Wang, Y. S., Dai, T. M., Tian, H., Wan, F. H., & Zhang, G. F. (2019). Comparative analysis of eight DNA extraction methods for molecular research in mealybugs. *PLoS ONE*, 14(12), 1–15. <https://doi.org/10.1371/journal.pone.0226818>
- Werren, J. H. (1997). Biology of *Wolbachia*. *Annual Review of Entomology*. Vol. 42, 124, 587–609.
- Xue, X., Li, S. J., Ahmed, M. Z., De Barro, P. J., Ren, S. X., & Qiu, B. L. (2012). Inactivation of *Wolbachia* Reveals Its Biological Roles in Whitefly Host. *PLoS ONE*, 7(10). <https://doi.org/10.1371/journal.pone.0048148>
- Yu, Z., & Mohn, W. W. (2001). Bacterial Diversity and Community Structure in an Aerated Lagoon Revealed by Ribosomal Intergenic Spacer Analyses and 16S Ribosomal DNA Sequencing. *Applied and Environmental Microbiology*, 67(4), 1565–1574. <https://doi.org/10.1128/AEM.67.4.1565-1574.2001>
- Zchori-Fein, E., & Brown, J. K. (2002). Diversity of prokaryotes associated with *Bemisia tabaci* (Gennadius) (Hemiptera: Aleyrodidae). *Annals of the Entomological Society of America*, 95(6), 711–718. [https://doi.org/10.1603/0013-8746\(2002\)095\[0711:DOPAWB\]2.0.CO;2](https://doi.org/10.1603/0013-8746(2002)095[0711:DOPAWB]2.0.CO;2)
- Zhao, D. X., Zhang, Z. C., Niu, H. T., & Guo, H. F. (2020). Selective and stable elimination of endosymbionts from multiple-infected whitefly *Bemisia tabaci* by

feeding on a cotton plant cultured in antibiotic solutions. *Insect Science*, 27(5), 964–974. <https://doi.org/10.1111/1744-7917.12703>

Zhong, Y., & Li, Z. X. (2014). Bidirectional Cytoplasmic Incompatibility Induced by Cross-Order Transfection of Wolbachia: Implications for Control of the Host Population. *Microbial Ecology*, 68(3), 463–471. <https://doi.org/10.1007/s00248-014-0425-2>

Zhou, X. F., & Li, Z. X. (2016). Establishment of the cytoplasmic incompatibility-inducing Wolbachia strain wMel in an important agricultural pest insect. *Scientific Reports*, 6(1), 1–9. <https://doi.org/10.1038/srep39200>

Zhu, D. T., Zou, C., Ban, F. X., Wang, H. L., Wang, X. W., & Liu, Y. Q. (2019). Conservation of transcriptional elements in the obligate symbiont of the whitefly *Bemisia tabaci*. *PeerJ*, 2019(8). <https://doi.org/10.7717/peerj.7477>