



## DAFTAR PUSTAKA

- Abdelhamid, A.A., S. A. Aref, N. A. Ahmed, A. M. M. Elsaghier, F. M. A. El Latif, S. N. Al-Ghamdi and M. A. Gad. 2023. Design, Synthesis, and Toxicological Activities of Novel Insect Growth Regulators as Insecticidal Agents against *Spodoptera littoralis* (Boisd.). ACS Omega. 8: 709–717.
- Adfa, M., A.J. Kusnanda, W. D. Saputra, C. Banon, M. Efdi and M. Koketsu. 2017. Termiticidal activity of *Toona sinensis* wood vinegar against *Coptotermes curvignathus* Holmgren. Rasayan J. Chem. 10 (4): 1088-1093.
- Adriani, D, M Hamzah, and M. A. Prasetya. 2019. The estimation of economic appearance and profitability function of drip irrigation in tidal lands (a case of chili farming). Sriwijaya Journal of Environment. 4(3): 138–145.
- Agrios, GN. 1996. Ilmu penyakit tumbuhan edisi ketiga. Gajah Mada University Press, Yogyakarta.
- Ali, M.S., S. Ravikumar, J. M. Beula, V. Anuradha, and N. Yogananth. 2014. Insecticidal Compounds from Rhizophoraceae Mangrove Plants for Management of Dengue Vector *Aedes aegypti*. Journal Vector Borne. 51: 106-114.
- Al-Rubaye, A. F., I. H. Hameed, dan M. J. Kadhim. 2017. A Review: Uses of Gas Chromatography-Mass Spectrometry (GCMS) Technique for Analysis of Bioactive Natural Compounds of Some Plants. International Journal of Toxicological and Pharmacological Research. 9(1): 81-85.
- Arimura G-I, Ozawa R, Kugimiya S, Takabayashi J, Bohlmann J. 2004. Herbivore induced defense response in a model legume. Two-spotted spider mites induce emission of (E)- $\beta$ -ocimene and transcript accumulation of (E)- $\beta$ -ocimene synthase in *Lotus japonicus*. Plant Physiology. 135: 1976–1983.
- Badan Pusat Statistik. 2022. Statistik Hortikultura 2022. Badan Pusat Statistik, Jakarta.
- Brader, L. 1979. Integrated pest control in the developing world. Annual Review of Entomology. 24: 225-254.
- Brown, J. K. 2000. Molecular markers for the identification and global tracking of whitefly vector-Begomovirus complexes. Virus Research. 71: 233–260.
- Buttery, R. G. and LING, L. C. J. 1984. Corn leaf volatiles: Identification using tenax trapping for possible insect attractants. J. Agric. Food Chem. 32:1104–1106.
- Byrne, D. N. & Bellows Jr., T.S. 1991. Whitefly biology. Annals of the Entomological Society of America. 36: 431-457.
- Crowder D W, Horowitz A R, De Barro P J. 2010. Mating behaviour, life history and adaptation to insecticides determine species exclusion between whiteflies. Journal of Animal Ecology. 79: 563–570.
- De Barro, P.J.D., S.H. Hidayat, D. Frohlich, S. Subandiyah, & S. Ueda. 2008. A virus and its vector, pepper yellow leafcurl virus and *Bemisia tabaci*, two new invaders of Indonesia. Biology Invasions. 10: 411–433.



De Barro P. J., S. S. Liu, L. M Boykin, A. B. Dinsdale. 2011. *Bemisia tabaci*: A statement of species status. Annual Review of Entomology. 56: 1–19.

Difonzo, C.D., D.W. Ragsdale, E.B. Radcliffe, N.C. Gudmestad, & G.A. Secor. 1996. Crop Borders Reduce Potato virus Y Incidence in Seed Potato. Annals of Applied Biology. 129: 289–302.

Dixit S, S.K. Upadhyay, H Singh, O.P. Sidhu, K.T Verma. 2 Enhanced methanol production in plants provides broad spectrum insect resistance. PLoS One. 8(11): e79664. doi: 10.1371/journal.pone.0079664. PMID: 24223989; PMCID: PMC3818224.

Dobkin, D. S., I. Olivieri, and P. R. Ehrlich. 1987. Rainfall and the interaction of microclimate with larval resources in the population dynamics of checkerspot butterflies (*Euphydryas editha*) inhabiting serpentine grassland. Oecologia. 71: 161– 166.

Dudareva N., F. Negre, D.A. Nagegowda, I. Orlova, 2006. Plant volatiles: recent advances and future perspectives. Crit Rev Plant Sci. 25: 417–440.

Duriat, A. S. 2009. Pengendalian Penyakit Kuning Keriting pada Tanaman Cabai Kecil. Balai Penelitian Tanaman Sayuran, Bandung.

Eastop, V. F. 1977. World wide importance of Aphids as virus vectors. In Aphids as virus vectors. Kerry, F. H., Karl, M. Academic Press. New York. 4-44.

Fereres, A. 2000. Barrier crops as a cultural control measure of non-persistently transmitted aphid-borne viruses. Virus Research. 71: 221–231.

Friarini, Y.P., Witjaksono and Suputa. 2016. Study of the use of maize as barrier crop in chili to control *Bemisia tabaci* (Gennadius) population. Jurnal Perlindungan Tanaman Indonesia. 20(2): 79–83.

Gonzalez-Mas, M.C., J.L. Rambla, M.C. Alamar, A. Gutierrez, dan A. Granell, 2011. Comparative analysis of the volatile fraction of fruit juice from different Citrus species. PLoS One. 6 (7): 1-11.

Gorman K, Slater R, Blande J D, Clarke A, Wren J, McCaffery A, Denholm I. 2010. Cross-resistance relationships between neonicotinoids and pymetrozine in *Bemisia tabaci* (Hemiptera: Aleyrodidae). Pest Management Science. 66: 1186–1190.

Guo, J., Liu, T., Han, L., & Liu Y. 2009. The effect of corn silk on glycaemic metabolism. J. Nutrition & Metabolism Biomed Central. 6:47.

Hasyim, A., W. Setawati dan L. Lukman. 2015. Inovasi Teknologi Pengendalian OPT Ramah Lingkungan pada Cabai Merah, Upaya Alternatif menuju Ekosistem Harmonis. Balai Penelitian Sayuran Lembang, Bandung. Jurnal Pengembangan Inovasi Pertanian. 8(1): 1-10.

Hasyim, A., Wiwin Setiawati, & Liferdi L. 2016. Kutu kebul *Bemisia tabaci* Gennadius (Hemiptera: Aleyrodidae) penyebar penyakit virus mosaik kuning pada tanaman terung. J. IPTEK Hortikultura. 12: 50-54.

Heath B., & Manukian A. 1994. An automated system for use in collecting volatile chemicals released from plants. J. Chem Ecol. 20: 593-608.



Hendrival, Hidayat, P., & Nurmansyah, A. 2011. Kisaran inang dan dinamika populasi *Bemisia tabaci* (Gennadius) (Hemiptera: Aleyrodidae) di pertanaman cabai merah. J. HPT Tropika. 11 (1): 47-56.

Hidayat, S.H., Rusli, E.S., & Aidawati, N. 1999. Penggunaan primer universal dalam Polymerase Chain Reaction untuk mendeteksi virus gemini pada cabe. In: Prosiding Kongres Nasional XV dan Seminar Ilmiah Perhimpunan Fitopatologi Indonesia. Purwokerto, 16-18 September 1999. Pp 355-359.

Horowitz, A. R., S. Kontsedalov, V. Khasdan, S. Kontsedalov, I. Ishaaya. 2005. Biotypes B and Q of *Bemisia tabaci* and their relevance to neonicotinoid and pyriproxyfen resistance. Archives of Insect Biochemistry and Physiology. 58: 216–225.

Indriyani, I.G.A.A. 2008. Studi pustaka bioekologi dan teknik pengendalian hama lalat putih, *Bemisia* spp. (Homoptera: Aleyrodidae). Pros. Lokakarya Revitalisasi Agribisnis Kapas Diintegrasikan dengan Palawija di Lahan Sawah Tadah Hujan. Pusat Penelitian dan Pengembangan Perkebunan, Bogor.

Jeger, M. G. 2020. The Epidemiology of Plant Virus Disease: Towards a New Synthesis. Plants (Basel). 9(12): 1768.

Jiu, M., XP. Zhou, L. Tong, J. Xu, X. Yang, F H. Wan, S S. Liu. 2007. Vector-virus mutualism accelerates population increase of an invasive whitefly. PLoS ONE, 2: e182.

Juliana, G., and H. C. F. Su. 1983. Laboratory studies on several plant materials as insect repellents for protection of cereal grains. J. Econ. Entomol. 76: 154–157.

Kalshoven LGE. 1981. The Pests of Crops in Indonesia. Laan PA van der, penerjemah. Jakarta (ID): IchtiarBaru- van Hoeve.

Kamata, N. and Y. Igarashi. 1994. Influence of rainfall on feeding behavior, growth, and mortality of larvae of the beech caterpillar, *Quadricalcarifera punctatella* (Motschulsky) (Lep, Notodontidae). Journal of Applied Entomology. 118: 347– 353.

Knudsen, J.T., R. Eriksson, J. Gershenson, dan B. Stahl, 2006. Diversity and distribution of floral scent. The Botanical Review. 72 (1): 1-120.

Kobori, Y., and H. Amano. 2003. Effect of rainfall on a population of the diamondback moth, *Plutella xylostella* (Lepidoptera: Plutellidae). Applied Entomology and Zoology. 38: 249– 253.

Latha, G.S., S.B. Das, P. Swathi, R. Neelesh & R.S. Marabi. 2018. Biology of whitefly, *Bemisia tabaci* on soybean cultivars. Journal of Entomology and Zoology Studies. 6(5): 2351-2355.

Liu, S.S., J. Colvin, & P.J. De Barro. 2012. Species concepts as applied to the whitefly *Bemisia tabaci* systematics: how many species are there? Journal of Integrative Agriculture. 11: 176-186.



- Liu, X.H., H. Pan, P. Mazur. 2003. Permeation and toxicity of ethylene glycol and methanol in larvae of *Anopheles gambiae*. *J Exp Biol.* 206: 2221-2228. doi: 10.1242/jeb.00420. PubMed: 12771171.
- Liu, S. S., P.J. De Barro, J. Xu, J. B. Luan, L. S. Zang, Y. M. Ruan, F. H. Wan. 2007. Asymmetric mating interactions drive widespread invasion and displacement in a whitefly. *Science.* 318: 1769–1772.
- Lumempouw, L.I., E. Suryanto, & J.J.E. Paendonga. 2012. Aktivitas anti UV-B ekstrak fenolik dari tongkol jagung (*Zea mays L.*). *J. MIPA Universitas Sam Ratulangi Online.* 1(1): 1-4.
- Lundström J.N., T. Hummel, and M.J. Olsson, 2003. Individual differences in sensitivity to the odor of 4,16-androstadien-3-one. *Chem. Senses.* 28: 643– 650.
- Masnilah, R., W. S. Wahyuni, S. Dwi, A. Majid, H. S. Addy, & A. Wafa. 2020. Insidensi dan keparahan penyakit penting tanaman padi di Kabupaten Jember. *Agritrop: Jurnal Ilmu-Ilmu Pertanian (Journal of Agricultural Science).* 18(1): 1–12.
- Meilin, A. 2012. Dampak insektisida pada parasitoid telur wereng batang cokelat dan deltametrin konsentrasi sublethal terhadap *Anagrus nilaparvatae* (Hymenoptera: Mymaridae). *Disertasi Pascasarjana UGM.* Yogyakarta. 149p
- Naranjo, S.E., S.J. Castle, P.J.D. Barro, and S.S. Liu. 2010. Population Dynamics, Demography, Dispersal and Spread of *Bemisia tabaci*. *ResearchGate* <https://www.researchgate.net/publication/225950401>. Diakses 8 April 2022.
- Narendra, A.G.G.A., T.A. Phabiola dan K.A. Yuliadhi. 2017. Hubungan Antara Populasi Kutu Kebul (*Bemisia tabaci*) (Gennadius) (Hemiptera: Aleyrodidae) dengan Insiden Penyakit Kuning pada Tanaman Tomat (*Solanum Lycopersicum Mill.*) di Dusun Marga Tengah, Desa Kerta, Kecamatan Payangan, Bali. *E-Jurnal Agroekoteknologi Tropika* 6(3): 339-348.
- Nasouri, H. M.; H. M. A. Badawy and A. A. Barakat. 2012. The biological activity of some insect growth regulators against the cotton leafworm *Spodoptera littoralis* (BIOSD.). *J. Plant Prot. and Path., Mansoura Univ.* 3 (7): 667 – 680.
- Nurfalach, D.R. 2010. Budidaya tanaman cabai merah (*Capsicum annuum L.*) di UPTD Perbibitan Tanaman Hortikultura Pakopen Kecamatan Bandungan Kabupaten Semarang. *Tugas Akhir. Fakultas Pertanian Universitas Sebelas Maret, Surakarta.*
- Paeru, R.H., dan T.Q. Dewi. 2017. Panduan Praktis Budidaya Jagung. *Penebar Swadaya.* Jakarta. Hal: 20-22.
- Pedigo, L. P. 1991. Entomology and Pest Management. Macmillan Publishing Company New York. Collier MacMillan Publishers, London.
- Perera, A and M. Karunaratne. 2016. Efficacy of Essential Oil of *Ruta Graveolens* Leaves Against *Sitophilus Oryzae* (Linnaeus) As A Biorational Pesticide in Post-Harvest Pest Management. *International Journal of Science Environment and Technology.* 5(1):160–166.



ali, E. dan J. Gershenson, 2002. The formation and function of plant volatiles: perfumes for pollinator attraction and defense. Current Opinion in Plant Biology 5: 237–243.

Pohan, S.D. 2014. Pemanfaatan ekstrak tanaman sebagai pestisida alami (biopestisida) dalam pengendalian hama serangga. J. Pengabdian Kepada Masyarakat. 20(75): 94-99.

Rinaldi, F.B. J. Rachmawati, & B.K. Udiarto. 2016. Pengaruh ekstrak bunga krisan (*Chrysanthemum cinerariaefolium* rev.), bunga saliara (*Lantana camara* Linn.), dan bunga lavender (*Lavandula angustifolia* Mill.) terhadap repellency kutu kebul (*Bemisia tabaci* Genn.). J. Pendidikan Biologi (Bioed). 4 (1).

Rochmat, A., Z. Bahiyah, dan M. F. Adiat. 2016. Pengembangan Biolarvasida Jentik Nyamuk *Aedes Aegypti* Berbahan Aktif Ekstrak Beluntas (*Pluchea indica* Less.). Reaktor 16(3): 103-108.

Roshan, M & C. RR. Hooks. 2011. Ushing protector plants to reduce the incidence of papaya ringspot virus-watermelon strain in zucchini. Environmental Entomology 40 (2): 391 – 398.

Rowan, D.D., 2011. Volatile metabolites. Review. Jurnal Metabolites 1: 41-63.

Rowan, D.D., M.B. Hunt, A. Dimouro, P.A. Alspach, R. Weskett, R.K. Volz, S.E. Gardiner, dan D. Chagné, 2009. Profiling fruit volatiles in the progeny of a "Royal Gala" × "Granny Smith" apple (*Malus* × *domestica*) cross. Journal of Agricultural and Food Chemistry 57: 7953–7961.

Sayed, S., M. M. Soliman, S. Al-Otaibi, M. M. Hassan, SA. Elarraouty, S. M. Abozeid and A. M. El-Shehawi. 2022. Toxicity, Deterrent and Repellent Activities of Four Essential Oils on *Aphis punicae* (Hemiptera: Aphididae). Plants 11: 1 – 13.

Setiawati & Muharam, 2003. Buku panduan teknis pengelolaan tanaman terpadu cabai merah (pengenalan dan pengendalian hama-hama penting pada tanaman cabai merah). Balai Penelitian Tanaman Sayuran, Pusat Penelitian dan Pengembangan Hortikultura, Badan Penelitian dan Pengembangan Pertanian, Lembang-Bandung.

Sjam, S., Melina, & Sulaeha Thamrin. 2010. Pengujian ekstrak tumbuhan *Vitex trifolia* L., *Acorus colomus* L., dan *Andropogon nardus* L. terhadap hama pasca panen *Araecerus fasciculatus* De Geer (Coleoptera: Anthribidae) pada biji kakao. J. Entomol Indonesia 7(1): 1-8. Steenis, D.C. 1978. Flora. PT. Pradnya Paramita, Jakarta.

Soelaiman, V dan Ernawati A. 2013. Growth and development of in vitro curly pepper (*Capsicum annuum* L.) in some concentration BAP and IAA. Bul. Agrohorti 1 (1): 62–66.

Steenis, D.C. 1978. Flora. PT. Pradnya Paramita, Jakarta.

Sudiono dan Purnomo.2009. Hubungan Antara Populasi Kutu Kebul (*Bemisia Tabaci* Genn.) dan Penyakit Kuning Pada Cabai di Lampung.Jurusan Proteksi Tanaman, Fakultas Pertanian, Universitas lampung. J. HPT Tropika.

Sulandari, S. 2004. Karakterisasi biologi, serologi dan analisis sidik jari dna virus penyebab penyakit daun keriting kuning cabai. Disertasi. Institut Pertanian Bogor. Bogor.



Sumarni dan Muhamar. 2005. Budidaya Tanaman Cabai Merah. Panduan Teknis PTT Cabai No. 2. Balai Penelitian Tanaman Sayuran, Bandung.

Swathi, M and N. Gaur. 2017. Effect of Border Crops and Insecticides on Management of Whitefly, *Bemisia tabaci* (Gennadius) Transmitted Yellow Mosaic Virus in Soybean. Int. J. Curr. Microbiol. App. Sci. 6(5): 613-617.

Syah, B. W., & K. I. Purwani. 2016. Pengaruh ekstrak daun belimbing wuluh (*Averrhoa bilimbi*) terhadap mortalitas dan perkembangan larva *Spodoptera litura*. Jurnal Sains Dan Seni ITS, 5(2), E-23-E-28.

Taufik, M., A. Hasan., Rahayu M., Gusnawaty HS., A. Khaeruni., M. Botek and Syair. 2023. Relationship Between whitefly (*Bemisia tabaci*) Population and Pepper Yellow Leaf Curl Disease on Chili Plant Yield in The Field. Cropsaver: Journal of Plant Protection 6(1): 19-25.

Temaja, I.G.R.M., D.G.W. Selangga., T.A. Phabiola., K. Khalimi and L. Listihani. 2022. Relationship between viruliferous *Bemisia tabaci* population and disease incidence of Pepper yellow leaf curl Indonesia virusin chili pepper. Biodiversitas 23(10): 5360-5366. DOI: 10.13057/biodiv/d231046.

Thamrin, S., Rosmana, A., Untung, S., & Sjam, S. 2011. Pest control technology in organik vegetable cultivation sistem. J. Fitomedika. 7 (3): 142-144.

Thresh J.M. (1982) Cropping practices and virus spread. Annual Review of Phytopathology 20, 193–218.

Tyasningsiwi, R.W. Witjaksono., & S. Indarti. 2019. Analysis of Volatile Compound at Different Age of Corn Crops Used as *Bemisia tabaci* Repellent. Jurnal Perlindungan Tanaman Indonesia 23 (1): 142–147.

United States Environmental Protection Agency. 2023. PubChem Compound Summary for CID 887, Methanol. Diakses tanggal 25 Agustus 2023. (<https://pubchem.ncbi.nlm.nih.gov/compound/Methanol>).

Zhang, XM., G. L. Lövei, M. Ferrante, NW. Yanga and FH. Wan. 2019. The potential of trap and barrier cropping to decrease densities of the whitefly *Bemisia tabaci* MED on cotton in China. Pest Manag Sci: 1 – 10.

Zhen, W., D. Wei, X. Yan, L. Pei, and Y. Xin-Ling. 2010. Synthesis of substituted benzylidene hydrazinecarbothioamide (hydrazinecarboxamide, nitrohydrazinecarboximidamide) and their inhibitor activity on tyrosinase of diamondback moth *Plutella xylostella* (L.). Chinese Journal of Pesticide Science. 12(3): 264 – 268.