

## DAFTAR PUSTAKA

- Agus, S., Luciana, D., and Aprianti, S. R. 2018. Addition of mango essence to methyl eugenol more attracted to *Bactrocera dorsalis* Complex (Diptera: Tephritidae) on mango plantation in Majalengka, West Java. *Research Journal of Chemistry and Environment*: 22(2): 274–279.
- Allwood, A. J. 1997. Control strategies for fruit flies (family Tephritidae) in the South Pacific. *Management of Fruit Flies in the Pacific: a Regional Symposium*, Nadi, Fiji 28-31 October 1996.
- Arrese, E. L. and J. L. Soulgas. 2010. Insect fat body: Enerergy, metabolism, and regulation. *Annu Rev Entomol* 55: 207-225.
- Aryuwandari, V. E. F., Trisyono, Y. A., Suputa, S., De Faveri, S., & Vijaysegaran, S. 2020. Survey of fruit flies (Diptera: Tephritidae) from 23 Species of fruits collected in Sleman, Yogyakarta. *Jurnal Perlindungan Tanaman Indonesia*: 24(2): 122–132.
- Astuti, W. dan W. Mahatmanti. 2017. Pembuatan pupuk hidrolisis cair berbasis limbah vinasse. *Rekayasa* 15(1): 55-58.
- Badan Karantina Pertanian. 2014. Pedoman Sertifikasi Fitosanitari Buah Manggis Tujuan Australia. Pusat Karantina tumbuhan dan Keamanan Hayati Nabati, Jakarta.
- Bateman, M. A. and T. C. Morton. 1981. Chemical studies on proteinaceous attractants for fruit flies, including the identification of volatile constituents. *Australian journal of Agricultural Research* 32(6): 905-916.
- Bateman, M. A. and T. C. Morton. 1981. The importance of ammonia in proteinaceous attractants for fruit flies (family: tephritidae). *Australia Agriculture Research* 32: 883-903.
- Blum, Murray S. 1985. *Fundamental of Insect Physiology*. John Willey & Sons, New York.
- Capinera, J. L. 2008. *Encyclopedia of Entomology* 2<sup>nd</sup> ed. Spriger Science+Business Media B.V., Heidelberg.
- Castilho, A. P., Pasinato, J., Santos, J. E. V. dos, Costa, A. e. S. da, Nava, D. E., de Jesus, C. R., & Adaime, R. 2019. Biology of *Bactrocera carambolae* (Diptera: Tephritidae) on four hosts. *Revista Brasileira de Entomologia*, 63(4), 302–307.
- Celus, I., K. Brijs, and J. A. Delcour. 2006. The effect malting and mashing on barley protein extractability. *Journal of Cereal Science* 44: 203-211.
- Chapman, R. F., S. J. Simpson, and A. E. Douglas. 2013. *The Insects: structure and function* 5<sup>th</sup> ed. Cambridge University Press, New York.
- Cheng, D., L. Chen, C. Yi, G. Liang, and Y. Xu. 2014. Association between changes in reproductive activity and D-glucose metabolism in the tephritid fruit fly,

*Bactrocera dorsalis* (Hendel).

- Clarke, A. R. 2019. Biology and Management of Bactrocera and Related Fruit Flies. CABI, Oxfordshire.
- Drew, R. A. I., Hooper G. H. S., and M. A. Batemen. 1978.
- Enkerlin, W. R. 2005. Impact of fruit fly control programmes using the sterile insect technique. *In*: Dyck, V. A., J. Hendrichs, and A. S. Robinson (Eds). 2005. Sterile insect technique. Springer, Dordecht.
- Epsky, N. D. and R. R. Heath. 1997. Exploiting the interactions of chemical and visual cues in behavioral control measures for pest tephritid flies. Behavioral Ecology Symposium: 273-283.
- Epsky, N. D., P. E. Kendra, E. Q., and Schnell .2014. History and Development of Food-Based Attractants. *In*: Shelly, T.,N. Epsky, E. B. Jang, J. Reye-Flores, and R. Vargas. (Eds) Trapping and Detection, Control, and Regulation of Tephritid Fruit Flies. Springer, Dordecht.
- Gadenne, C., R. B. Barrozo, and, S. Anton. 2016. Plasticity in insect olfaction: to smell or not to smell? *Annu. Rev. Entomol* 61: 317-333.
- Hasyim, A., Boy, A., & Hilman, Y. 2010. Respons hama lalat buah jantan terhadap beberapa jenis atraktan dan warna perangkap di kebun petani. *Jurnal Hortikultura* 20(2): 164–170.
- Hasyim, A., Lukman, L., & Setiawati, W. 2020. Teknologi Pengendalian Hama Lalat Buah. IAARD Press, Jakarta.
- Indriyanti, D. R., Martono, E., & Trisyono, A. 2008. Ketertarikan *Bactrocera carambolae* ( Diptera : Tephritidae ) pada berbagai limbah yang mengandung protein. *Jurnal Perlindungan Tanaman Indonesia* 14(2): 86–91.
- Jones, B. L. 2005. Endoproteases of barley and malt. *Journal of Cereal Science* 42(2): 139-156.
- Kardinan, A. 2003. Tanaman Pengendali Lalat Buah. Agro Media, Jakarta.
- Kieran, M. L., E. J. Steffen, and E. K. Arendt. 2016. Brewers' spent grain: a review with an emphasis on food and health. *Journal Institute Brewing* 122: 553-568.
- Klowden, M. 1990. The endogenous regulation of mosquito reproductive behaviour. *Experientia* 46: 660-670.
- Lloyd, A., & Drew, R. A. I. 1997. Modification and testing of brewery waste yeast as a protein source for fruit fly bait. *Management of Fruit Flies in the Pacific* 76: 192–198.
- Lynch, K. M., E. J. Steffen, and E. K. Arendt. 2016. Brewer's spent grain: a review with an emphasis on food and health. *Journal Institute Brew* 122: 553-568.
- Madden, A. A., M. J. Epps, T. Fukami, R. E. Irwin, J. Sheppard, D. M. Sorger, and R. R. Dunn. 2018. The ecology of insect-yeast relationship and its relevance to human industry. *Proceedings of Royal Society B: Biological Science*, 28 Maret 2018.

- Mangan, R. L., & Thomas, D. B. 2014. Comparison of torula yeast and various grape juice products as attractants for Mexican fruit fly (Diptera: Tephritidae). *Journal of Economic Entomology* 107(2): 591–600.
- Malinanti, L., E. Sulistiyowati, dan Y. Fenita. 2019. Profil asam amino dan nutrisi limbah biji durian (*Durio zibethius* Murr) yang difermentasi dengan ragi tape (*Saccharomyces cerevisiae*) dan ragi temoe (*Rhizopus oligosporus*).
- Maung, K. L., K. N. Chan., Y. Y. Mon, and A. Phyoe. 2019. Efficient protein-based bait formulation for attraction and feeding response of fruit flies (Diptera:Tephritidae) in Myanmar. *Journal of Life Science* 13: 18-24.
- Morton, T. C. and M. A. Batemen. 1981. Chemical studies on proteinaceous attractants for fruit flies, including t
- Mazor, M. 2009. Competitiveness of fertilizer with proteinaceous baits applies in Mediterranean fruit fly, *Ceratitidis capitata* Wied. (Diptera: Tephritidae) control. *Crop Protection* 28 : 314-318.
- McPheron, B. A. and G. J. Steck. 1996. Fruit Fly Pest: A World Assessment of Their Biology and Management. St. Lucie Press, USA.
- Muryati, A. Hasyim, dan Riska. 2008. Preferensi spesies lalat buah terhadap atraktan metil eugenol dan *cue lure* dan populasinya di Sumatera Barat dan Riau. *Jurnal Hortikultura* 18(2): 227-223.
- Muryati, Y. A. Trisyono, Witjaksono, and Wahyono. 2012. Effect of citronella grass extract on the oviposition behavior of carambola fruit fly (*Bactrocera carambolae*) in mango. *ARPN Journal of Agricultural and Biological Science* 7(9): 672-680.
- Nishida, R., K. H. Tan, and H. Fukami. 1988. Cis-3,4-Dimethoxycinnamyl alcohol from the rectal glands of male oriental fruit fly, *Dacus dorsalis*. *Chemistry Express* 3(4): 207-210.
- Osman. A. M. 2003. Barley and malt proteins and proteinases: The purification and characterisation of five malt endoproteases, using highly degradable barley protein fraction (HDBPF) substrate. *Journal of The Institute of Brewing* 109(2): 142-149.
- Pasinato, J., L. R. Redaelli, M. Botton, and C. R. de Jesus-Barros. 2019. Biology and fertility life table of *Bactrocera carambolae* on grape and acerola. *Revista Brasileira de Entomologia* 63: 217-223.
- Papanastasiou, S. A., J. R. Carey, and N. T. Papadopoulos. 2019. Effects of early-life protein starvation on longevity and sexual performance of male medfly. *PLoS One* 14(7): 1-12.
- Perez-Staples, F. Diaz-Feleischer, P. Montoya, and M. T. Vera. 2020. Area Wide Management for Fruit Fly Pests. CRC Press, New York.
- Phyoe, A., T. T. Nwet, and K. L. Maung. 2020. Attraction of brewer's waste-based protein bait on the female fruit flies, *Bactrocera dorsalis* and *Bactrocera correcta* (Diptera: Tephritidae). *Proceedings Third University Conference on Science, Engineering and Research*, August 2020.

- Piñero, J. C., R. F.L. Mau, and R. I. Vargas. 2011. A comparative assessment of the response of three fruit fly species (Diptera: Tephritidae) to sa spinosad-based bait: Effect of ammonium acetate, female age, and protein hunger. *Bulletin of Entomological Research* 101: 373-381.
- Piñero, J. C., Souder, S. K., Smith, T. R., & Vargas, R. I. 2017. Attraction of *Bactrocera cucurbitae* and *Bactrocera dorsalis* (Diptera: Tephritidae) to beer waste and other protein sources laced with ammonium acetate. *Florida Entomologist* 100(1): 70–76.
- Prastowo, P. dan P. S. Siregar. 2014. Pengaruh waktu pembungkusan terhadap jumlah atraktan larva lalat buah (*Bactrocera* spp.) pada buah belimbing (*Averrhoa carambola*). *Prosiding Seminar Nasional Biologi*, Medan, 15 Februari 2014.
- Price, P.W., R.F. Denno, M.D. Eubanks, D.L. Finke, and Kaplan I. 2011. *Insect ecology: behavior, populations, and communities*. Cambridge University Press, New York.
- R. Muniappan, B. M. Shepard, G. R. Carner, and A. A. O. 2012. *Arthropod Pests of Horticultural Crops in Tropical Asia*. CABI, Oxfordshire.
- Raehon Maulani, R. M. 2018. Respon lalat buah terhadap tata letak *sexferomon trap* pada tanaman cabai (*Capsicum annuum* L.). Universitas Mataram. Tesis.
- Sari, D. E., Sunarti, S., Nilawati, N., Mutmainna, I., & Yustisia, D. 2020. Identifikasi hama lalat buah (Diptera : Tephritidae) pada beberapa tanaman hortikultura. *Agrominansia*: 5(1): 1–9.
- Schutze, M., McMahon, J., Krosch, M., Strutt, F., Royer, J., Bottrill, M., Woods, N., Cameron, S., Woods, B., and Blacket, M. 2018. *The Australian Handbook for the Identification of Fruit Flies*. Plant Health Australia, Canberra.
- Sharp, L. J. 1987. laboratory and field experiment to improve enzymatic casein hydrolysate as an arrestant and attractant for caribbean fruit fly, *Anastrepha suspensa* (Diptera: tephritidae). *The Florida Entomologist* 7(2): 225-233.
- Shelly, T., N. Epsky, E. B. Jang, J. Reye-Flores, and R. Vargas. 2014. *Trapping and the Detection, Control, and Regulation of Tephritid Fruit Flies: Lures, Area-Wide Programs, and Trade Implication*. Springer, New York.
- Siebenhandl, S., L. N. Lestario, D. Trimmel, and E. Berghofer. 2001. Studies on tape ketan an Indonesian fermented rice food. *International Journal of Food Sciences and Nutrition* 52: 347-357.
- Siwi, S., & Hidayat, P. 2006. Taksonomi dan Bioekologi Lalat buah penting *Bactrocera* spp. (Diptera: Tephritidae) di Indonesia. *Balai Besar Penelitian Dan Pengembangan Bioteknologi Dan Sumberdaya Genetik Pertanian*: 23–30.
- Suputa, S., Trisyono, Y. A., Martono, E., & Siwi, S. S. 2010. Update on the host range of different species of fruit flies in Indonesia. *Jurnal Perlindungan Tanaman Indonesia* 16(2): 62–75.
- Susanto, A., Nasahi, C., Rumaisha, Y. K., Murdita, W., Murniningtyas, T., Lestari, P., Pertanian, F., Padjadjaran, U., Agroteknologi, P. S., Pertanian, F., Padjadjaran, U., Besar, B., Organisme, P., & Tanaman, P. 2019. Penambahan essens buah untuk

meningkatkan keefektifan metil eugenol dalam menarik *Bactrocera* spp. Jurnal Agrikultura 30: 53–62.

- Tan, K. H., I. Tokushima, H. Ono, and R. Nishida. 2011. Comparison of phenylpropanoid volatiles in male rectal pheromone gland after methyl eugenol consumption, and molecular phylogenetic relationship of four global pest fruit fly species: *Bactrocera invadens*, *B. dorsalis*, *B. correcta*, and *B. zonata*. Chemoecology 21: 25-33.
- Triplehorn, C., & Jhonson, N. 2005. Borror and DeLong's introduction to the study of insects. Thompson Brooks/Cole, Belmont.
- Tuankotta, A., N. Kurniaty, dan A. Arumsari. 2015. Perbandingan kadar protein pada tepung beras putih, (*Oryza sativa* L.), tepung beras ketan hitam (*Oryza sativa* L. Glutinosa-, dan tepung sagu (*Metroxylon sagu* Rottb.) dengan menggunakan metode kjedahl. Prosiding Penelitian SPeSIA, Bandung 11 Februari 2015.
- Vargas, R. I. and R. Prokopy. 2006. Attraction and feeding response of melon flies and oriental fruit flies (Diptera: Tephritidae) to various protein baits with and without toxicants. Proceeding Hawaian Entomology Social 38: 49-60.
- Vijaysegaran, Ss., G. H. Walter, and R. A. I. Drew. 2002. Influence of adult diet on reproductive system development and mating ability in *Bactrocera tryoni* (Frogatt) (Diptera: Tephritidae). Journal of Tropical Agriculture and Food Science 30: 119-136.
- Vijaysegaran, S. 2016. Bait manufactured from beer yeast wate and its use for fruit fly management. Proceedings of the 9<sup>th</sup> ISFFEI, Bangkok, 12-16 May 2014.
- Wang, F., C. Chambi, Z. Li., C. Huang, Y. Ma, C. Li, X. Tian, F. Sangija, M. S. Ntambo, O. M. Kankonda, S. Hafeez, T. Anwar, and R. Sharif. 2018. Influence of supplemental protein on the life expectan and reproduction of the chinese citrus fruit fly, *Bactrocera minax* (Enderlein) (*Tetradacus minax*) (Diptera: Tephritidae). Journal of Science 18(2): 1-8.
- Waters, D. M., F. Jacob, J. Titze, E. K. Arendt, and E. Zannini. 2012. Fibre, protein and mineral fortification of wheat bread through milled and fermented brewer's spent grain enrichment. Europe Food Research Technology 235: 767-768.