

## DAFTAR PUSTAKA

- Ahmad, I., Sriwahjuningsih., Astari, S., Putra, R.E. & Permana, A.D., 2009. Monitoring Pyrethroid Resistance in Field Collected *Blattella germanica* Linn. (Dictyoptera : Blattellidae ) in Indonesia. *Entomological Research*, 39(2), pp. 114–118.
- Ahmad, I. & Suliyat., 2011. Development of Fipronil Gel Bait Against German Cockroaches, *Blattella germanica* (Dictyoptera: Blattellidae): Laboratory and Field Performance in Bandung, Indonesia. *Journal of Entomology*, 8(3): 288-294.
- Aliefia, R.A., Ambarningrum, T.B. & Basuki, E., 2020. Perilaku Memilih Umpan Dengan Fagostimulan Yang Berbeda Pada Kecoak Jerman *Blattella germanica* L. (Dictyoptera: Blattellidae). *BioEksakta : Jurnal Ilmiah Biologi Unsoed*, 2(3), pp. 321-329.
- Ambarningrum, T.B., Fitri, L.L., Basuki, E., Kustiati, K., Hariani, N. & Ahmad, I., 2019. Detection of Glucose Aversion Behavior Development in German Cockroaches, *Blattella germanica* L. (Dictyoptera: Blattellidae) in Indonesia. *Journal of Entomology*, 16(2), pp. 39–46.
- Ambarningrum, T.B., Fitri, L.L., Putra, R.E., Margaretha, A. & Ahmad, I., 2020. Latency of Sugar Selection Behavior in German Cockroaches *Blattella germanica* (Dictyoptera: Blattellidae). *The South-East Asian+Conference on Biodiversity and Biotechnology*, 593(1), pp. 1-5.
- Ambarningrum, T.B., Kusmintarsih, E.S., Haryanto, T., Basuki, E. & Rejeki, S.S.R., 2022. Tingkat Resistensi Lipas Jerman (*Blattella germanica* L.) asal Tiga Pasar di Kota Purwokerto terhadap Fipronil Menggunakan Metode Kontak dan Umpan. *ASPIRATOR - Journal of Vector-borne Disease Studies*, 14(1), pp. 1–10.
- Amin, I.D., Hestiningsih, R. & Yuliawati, S., 2016. Pengujian Daun Jeruk Purut (*Citrus hystrix*) Sebagai Zat Penolak Alami Bagi Kecoak Jerman (*Blattella germanica*) Dewasa di Laboratorium. *Jurnal Kesehatan Masyarakat*, 4(1), pp 127-133.
- Ang, L.H., Nazni, W.A., Kuah, M.K., Chien, A.C.S. & Lee, C.Y., 2013. Detection of the A302S Rdl Mutation in Fipronil Bait-Selected Strains of the German Cockroach (Dictyoptera: Blattellidae). *Journal of Economic Entomology*, 106(5), pp. 2167 – 2176.
- Ang, L., Wasi Ahmad, N. & Lee, C., 2014. *Indoxacarb Resistance in the German Cockroach After Bait Selection*. Proceedings of the Eighth International Conference on Urban Pests. Hungary: OOK-Press.
- Appel, A.G., Dingha, B.N., Eva, M.J. & Jackai, L.E.N., 2022. Toxicity, Repellency, and Laboratory Performance of Consumer Bait Products for German Cockroach (Blattodea: Ectobiidae) Management. *Florida Entomologist*, 105(2), pp. 115–125.
- Buczowski, G. & Schal, C., 2001. Emetophagy: Fipronil-Induced Regurgitation of Bait and Its Dissemination from German Cockroach Adults to Nymphs.

*Pesticide Biochemistry and Physiology*, 71(3), pp. 147–155.

- Cahyani L.K., Yuliawati, S. & Martini., 2018. Gambaran Faktor-Faktor yang Terkait dengan Kepadatan Kecoak di Tempat Penjualan Bahan Pangan dan Makanan Pasar Tradisional Kota Semarang. *Jurnal Kesehatan Masyarakat*, 6(5), pp 295-301.
- Chai, R.Y. & Lee, C.Y., 2010. Insecticide Resistance Profiles and Synergism in Field Populations of The German Cockroach (Dictyoptera: Blattellidae) from Singapore. *Journal of Economic Entomology*, 103(2), pp. 460–471.
- Davari, B., Kashani, S., Nasirian, H., Nazari, M. & Salehzadeh, A., 2018. Efficacy of Maxforce and Avion Gel Baits Containing Fipronil, Clothianidin, and Indoxacarb Against The German Cockroach (*Blattella germanica*). *Entomological Research*, 48(6), pp. 459 – 465.
- Do, D.C., Zhao, Y. & Gao, P., 2016. Cockroach Allergen Exposure and Risk of Asthma. *Allergy*, 71(4), pp.463-474.
- El-Monairy, O.M., El-Sayed, Y.A. & Hegazy, M., 2015. Efficacy of Certain Gel Baits Against The German cockroach, *Blattella germanica* L. (Dictyoptera: Blattellidae) Under Laboratory Conditions. *Catrina*, 11(1), pp. 1 – 7.
- Fardisi, M., Gondhalekar, A.D., Ashbrook, A.R. & Scharf, M.E., 2019. Rapid Evolutionary Responses to Insecticide Resistance Management Interventions by The German Cockroach (*Blattella germanica* L.). *Scientific Reports*, 9(1), pp. 38–42.
- Fazeli-dinan, M., Habibi, A., Haghi, S.F.M., Nikookar, S.H., Yazdani-Charati, J. & Enayati, A., 2022. Determination of Susceptibility Levels of Three Different Cockroach Species Including Hospitals German Cockroach, *Blattella germanica* L. (Blattodea: Blattellidae), to Common Insecticides, Cypermethrin, Propoxur and Fenitrothion. *Interantional Journal of Health Sciences*, 16(4), pp. 13-21.
- Foster, S.P., Young, S., Williamson, S.M., Duce, I., Denholm, I. & Devine, G.J., 2003. Analogous Pleiotropic Effects of Insecticide Resistance Genotypes in Peach-Potato Aphids and Houseflies. *Heredity*, 91(2), pp. 98–106.
- Gondhalekar, A.D., Song, C. & Scharf, M.E., 2011. Development of Strategies for Monitoring Indoxacarb and Gel Bait Susceptibility in The German Cockroach (Blattodea: Blattellidae). *Pest Manag Sci*, 67, pp. 262–270.
- Gondhalekar, A.D. & Scharf, M.E., 2012. Mechanisms Underlying Fipronil Resistance in a Multiresistant Field Strain of the German cockroach (Blattodea: Blattellidae). *Journal of Medical Entomology*, 49(1), pp. 122–131.
- Gondhalekar, A.D., Schere, C.W., Saran, R.K. & Scharf, M.E., 2013. Implementation of an Indoxacarb Susceptibility Monitoring Program Using Field-Collected German Cockroach Isolates from the United States. *Journal of Economic Entomology*, 106(2), pp. 945–953.
- Gondhalekar, A.D., Nakayasu, E.S, Silva, I., Cooper, B. & Scharf, M.E., 2016. Indoxacarb Biotransformation in the German Cockroach. *Pesticide Biochemistry and Physiology*, 134(2016), pp. 14–23.

- González-Morales, M.A., DeVries, Z.C., Santangelo, R.G., Kakumanu, M.L. & Schal, C., 2022. Multiple Mechanisms Confer Fipronil Resistance in the German Cockroach: Enhanced Detoxification and Rdl Mutation. *Journal of Medical Entomology*, 59(5), pp. 1721–1731.
- Hadi, U. K., 2011. *Lipas atau Kecoak Jerman, Blattella germanica*. Bogor: Fakultas Kedokteran Hewan IPB Indonesia.
- Holbrook, G.L., Roebuck, J., Moore, C.B., Waldvogel, M.G. & Schal, C., 2003. Origin and Extent of Resistance to Fipronil in the German Cockroach, *Blattella germanica* (L.) (Dictyoptera: Blattellidae). *Journal of Economic Entomology*, 96(5), pp. 1548-1558.
- Hu, I.H., Chen, S.M., Lee, C.Y & Neoh, K.B., 2020. Insecticide Resistance, and Its Effects on Bait Performance in Field-Collected German Cockroaches (Blattodea: Ectobiidae) from Taiwan. *Journal of Economic Entomology*, 113(3), pp. 1389–1398.
- Ilhami, F. H., Trisnowati, B. A. & Pratiknyo, H., 2020. Ketertarikan dan Kesukaan Kecoak Jerman *Blattella Germanica* L. (Dictyoptera:Blattellidae) terhadap Fagostimulan Berbeda. *Jurnal Ilmiah Biologi Unsoed*, 2(2), pp. 255–260.
- Intanasri, M. S., 2018. *Higenitas dan Sanitasi yang Diterapkan di Kitchen Hotel Louis Kienne Simpang Lima Semarang*. Semarang: Universitas Katolik Soegijapranata.
- Kaakeh, W., Reid, B.L. & Bennett, G.W., 1997. Toxicity of fipronil to German and American Cockroaches. *Entomologia Experimentalis et Applicata*, 84(3), pp. 229–237.
- Khoobdel, M., Dehghan, H., Oshaghi, M.A., Saman, E.A.G., Asadi, A. & Yusuf, M.A., 2022. The Different Aspects of Attractive Toxic Baits Containing Fipronil for Control of The German Cockroach (*Blattella germanica*). *Environmental Health and Toxicology*, 37(4), pp. 13–16.
- Ko, A.E., Bieman, D.N., Schal, C. & Silverman, J., 2016. Insecticide Resistance and Diminished Secondary Kill Performance of Bait Formulations Against German cockroaches (Dictyoptera: Blattellidae). *Pest Manag Sci*, 72(9), pp. 1778-11784.
- Kristensen, M., Hansen, K.K. & Jensen, K.M.V., 2005. Cross-Resistance Between Dieldrin and Fipronil in German Cockroach (Dictyoptera: Blattellidae). *Journal of Economic Entomology*, 98(4), pp. 1305–1310.
- Ladonni, H., 2000. Permethrin Resistance Ratios Compared by Two Methods of Testing Nymphs of The German cockroach, *Blattella germanica*. *Medical and Veterinary Entomology*, 14, pp. 213 – 216.
- Lee, L.C. & Lee, C.Y., 2004. Insecticide Resistance Profiles and Possible Underlying Mechanisms in German Cockroaches, *Blattella germanica* (Linnaeus) (Dictyoptera: Blattellidae) from Peninsular Malaysia. *Medical Entomology and Zoology*, 55(2), pp. 77–93.
- Liang, D., McGill, J. & Pietri, J.E., 2017. Unidirectional Cross-Resistance in German Cockroach (Blattodea: Blattellidae) Populations Under Exposure to

- Insecticidal Baits. *Journal of Economic Entomology*, 110(4), pp. 1-6.
- Liu, N. & Yue, X., 2000. Insecticide Resistance and Cross-Resistance in The House Fly (Diptera: Muscidae). *Journal of Economic Entomology*, 93(4), pp. 1269–1275.
- Madona, R.W. Rahayu, R., Dahelmi & Hariani, N., 2015. Efektivitas Insektisida Komersial Terhadap Kecoak Jerman (*Blattella Germanica* L.) Strain VCRU-WHO, GFA-JKT dan PLZ-PDG dengan Metode Kontak (Glass Jar). *Jurnal Biologi Universitas Andalas (J. Bio. UA.)*, 4(2), pp. 113–118.
- Menasria, T., Moussa, F., El-Hamza, S., Tine, S., Megri, R. & Chenchouni, H., 2014. Bacterial load of German cockroach (*Blattella germanica*) Found in Hospital Environment. *Pathogens and Global Health*, 108(3), pp. 141–147.
- Miller, D. M. & Meek, F., 2004. Cost and Efficacy Comparison of Integrated Pest Management Strategies with Monthly Spray Insecticide Applications for German Cockroach (Dictyoptera: Blattellidae) Control in Public Housing. *Journal of Economic Entomology*, 97(2), pp. 559-569.
- Nansen, C., Baissac, O., Nansen, M., Powis, K. & Baker, G., 2016. Behavioral Avoidance-Will Physiological Insecticide Resistance Level of Insect Strains Affect Their Oviposition and Movement Responses. *PLoS ONE*, 11(3), pp. 1–12.
- Nasirian, H., 2008. Rapid Elimination of German Cockroach, *Blattella germanica*, by Fipronil and Imidacloprid Gel Baits. *Iranian Journal of Arthropod-Borne Diseases*, 2(1), pp. 37–43.
- Pai, H.H., Wu, S.C. & Hsu, E.L., 2005. Insecticide Resistance in German cockroaches (*Blattella germanica*) from Hospitals and Households in Taiwan. *International Journal of Environmental Health Research*, 15(1), pp. 33–40.
- Pantoja, C.D., Peres, M.G., Calvo, E., Rodriguez, M.M. & Bisset, J.A., 2000. Insecticide Resistance Studies on *Blattella germanica* (Dictyoptera: Blattellidae) from Cuba. *Annals New York Academy of Sciences*, 916, pp. 628–634.
- Putra, Y.N.E., Koerniasari., & Mamik., 2016. Uji Kerentanan Nyamuk *Aedes aegypti* terhadap Lambda Sihalotrin dan Sipermetrin Tahun 2016. *Gema Lingkungan Kesehatan*, 14(3), pp. 156 – 161.
- Rahayu, R., Ahmad, I., Ratna, E.S., Tan, M.I. & Hariani, N., 2012. Present Status of Carbamate, Pyrethroid and Phenylpyrazole Insecticide Resistance to German Cockroach, *Blattella germanica* (Dictyoptera: Blattellidae) in Indonesia. *Jurnal of Entomology*, 9(6), pp. 361-367.
- Rattafary, A., 2016. *Pengelolaan Program Sanitasi Lingkungan Berbasis Masyarakat di Kota Semarang Tahun 2012-2015. Studi Kasus Kampung Bustaman Kelurahan Purwodinatan Kecamatan Semarang Tengah*. Semarang: Universitas Diponegoro.
- Resistance, I. & Committee, A., 2011. IRAC MoA Classification Scheme Contents. *IRAC*, pp. 1–23.
- Robea, M.A., Nicoara, M., Plavan, G., Strugaru, S.A. & Ciobica, A., 2018. Fipronil:

- Mechanisms of Action on Various Organisms and Future Relevance for Animal Models Studies. *Journal of Survey in Fisheries Sciences*, 5(1), pp. 20 – 31.
- Scharf, M.E., Neal, J.J. & Bennett, G.W., 1997. Changes of Insecticide Resistance Levels and Detoxication Enzymes Following Insecticide Selection in the German Cockroach, *Blattella germanica* (L.). *Pesticide Biochemistry and Physiology*, 59(2), pp. 67–79.
- Siddiqui, J.A., Fan, R., Naz, H., Bamisile, B.S., Hafeez, M., Ghani, M.I., Wei, Y., Xu, Y. & Chen, X., 2023. Insights Into Insecticide-Resistance Mechanisms in Invasive Species: Challenges and Control Strategies. *Frontiers in Physiology*, 13(1), pp. 1–18.
- Simcock, N.K., Wakeling, L.K., Ford, D. & Wright, G.A., 2017. Effects of Age and Nutritional State on The Expression of Gustatory Receptors in The Honeybee (*Apis mellifera*). *PLoS ONE*, 12(4), pp. 1 – 15.
- Srinivasan, R., Jambulingan, P., Subramanian, S. & Kalyanasundaram, M., 2005. Laboratory Evaluation of Fipronil Against *Periplaneta americana* & *Blattella germanica*. *Indian Journal of Medical Research*, 122(1), pp. 57–66.
- Sutarto & Syani, A.Y., 2018. Resistensi pada *Aedes aegypti*. *Agromedicine Unila*, 5(2), pp. 582 – 586.
- Suwito, Sudomo & Syafruddin, D., 2018. Panduan Monitoring Resistensi Vektor terhadap Insektisida. Jakarta: Direktorat Pencegahan dan Pengendalian Penyakit Tular Vektor dan Zoonotik Direktorat Jenderal Pencegahan dan Pengendalian Penyakit. Jakarta: Kementerian Kesehatan Republik Indonesia.
- Tang, Q., Bourguignon, T., Willenmse, L., Coninck, E.D. & Evans, T., 2018. Global Spread of the German cockroach, *Blattella germanica*. *Biol Invasions*, 21(1), pp. 1-18.
- Umeda, K., Yano, T. & Hirano, M., 1988. Pyrethroid-Resistance Mechanism in German Cockroach, *Blattella germanica* (Orthoptera: Blattellidae). *Appl. Ent. Zool.*, 23(4), pp. 373 – 380.
- Vargo, E.L., Crissmann, J.R., Booth, W., Santangelo, R.G., Mukha, D.V. & Schal, C., 2014. Hierarchical Genetic Analysis of German cockroach (*Blattella germanica*) Populations from Within Buildings to Across Continents. *PLoS ONE*, 9(7), pp. 1-11.
- Wang, C., Scharf, M.E. & Bennett, G.W., 2004. Behavioral and Physiological Resistance of the German cockroach to Gel Baits (Blattodea: Blattellidae). *Journal of Economic Entomology*, 97(6), pp. 2067–2072.
- Wang, C., Bischoff, E., Eiden, A.L., Zha, C., Cooper, R. & Graber J.M., 2019. Residents Attitudes and Home Sanitation Predict Presence of German Cockroaches (Blattodea: Ectobiidae) in Apartments for Low-Income Senior Residents. *Journal of Economic Entomology*, 112(1), pp. 284–289.
- Wang, C., 2020. Rutgers. <https://njaes.rutgers.edu/fs1322/> [Diakses 22 Desember 2022].
- Wei, Y., Appel, A.G., Moar, W.J. & Liu, N., 2001. Pyrethroid Resistance and Cross-

- Resistance in The German Cockroach, *Blattella germanica* (L). *Pest Management Science*, 57, pp. 1055 – 1059.
- Wen, Z. & Scott, J.G., 1999. Genetic and Biochemical Mechanisms Limiting Fipronil Toxicity in The LPR Strain of House Fly, *Musca domestica*. *Pesticide Science*, 55, pp. 988-992.
- Wolfe, Z.M. & Scharf, M.E., 2022. Microbe-Mediated Activation of Indoxacarb in German cockroach (*Blattella germanica* L.). *Pesticide Biochemistry and Physiology*, 188, pp. 1-9.
- Wu, X. & Appel, A.G., 2017. Household and Structural Insects Insecticide Resistance of Several Field-Collected German Cockroach (Dictyoptera : Blattellidae) Strains. *Journal of Economic Entomology*, 110(3), pp. 1–7.
- Zhao, X., Salgado, V.L., Yeh, J.Z. & Narahashi, T., 2003. Differential Actions of Fipronil and Dieldrin Insecticides on GABA- gated Chloride Channels in Cockroach Neurons. *JPET*, 306(3), pp. 914-924.

