

DAFTAR PUSTAKA

- Ahmad, I., Sriwahjuningsih, Astari, S., Putra, R. E., and Permana, A. D. 2009. Monitoring Pyrethroid Resistance in Field Collected *Blattella germanica* (Dictyoptera: Blattellidae) in Indonesia. *Entomological Research*. **39**: 114-118.
- Ahmad, I. 2011. Adaptasi Serangga dan Dampaknya Terhadap Kehidupan Manusia. Pidato Ilmiah Guru Besar Institut Teknologi Bandung. Institut Teknologi Bandung.
- Anspaugh, D. D., Rose, R. L., Kohler, P.G., Hodgson, E., and Roe, R. M. 1994. Multiple Mechanisms of Pyrethroid Resistance in the German Cockroach, *Blattella germanica* (L). *Pesticide Biochemistry and Physiology* **50** (2): 138-148.
- Ariens, E. J., E. Mutschler dan A. M. Simonsis. 1986. Pengantar Toksikologi Umum. Gajah Mada University Press. Yogyakarta.
- Baumholtz, M.A., Parish, L.C., Witkowski, J.A. and Nutting, W.B. 1997. Review: The Medical Importance of Cockroach. *International Journal of Dermatology* **36**:90-96, Blackwell Science Ltd.
- Bell, W. J., L. M. Roth., C. A. Nalepa. 2007. Cockroaches: Ecology, Behavior, and Natural History. The Johns Hopkins University Press. Baltimore.
- Bestari, W, R. Rahayu dan Dahelmi. 2014. Efektivitas Beberapa Insektisida Aerosol Terhadap Kecoak *Blatella germanica* (L.) (Dictyoptera; Blattellidae) strain VCRU-WHO, GFA-JKT Dan PLZ-PDG Dengan Metode Semprot. *Jurnal Biologi Universitas Andalas*. **3** (3): 207-212.
- Benson EP and Zungoli PA. 1997. Cockroach, pp 197-122, in D Moreland (ed), Handbook of pest control. GIE Media, Inc., Cleveland. USA.
- Buczowski, G. and C. Schal, 2001. Emetophagy: Fipronil-induced regurgitation of bait and its dissemination from German cockroach adult to nymphs. *Pesticide Biochem. Physiol.*, **71**:147-155.
- Blooquist, J. R. 2009. Cyclodiene Resistance at Insect GABA Receptor/Chloride Channel Complex Confers Broad Cross-Resistance to Convulsant and Experimental Phenylpirazole Insecticides. *Archives in Insect Biochemistry and Physiology* **26**: 69-79.
- Brogdon, W.G. and McAllister, J. C. 1998: *Synopses Insecticide Resistance and Vector Control*. *Emerging infectious Disease*. **4**(4):605-613

- Chai, R. Y., and Lee, C. Y. 2010: Insecticide Resistance Profiles and Synergism in Field Populations of German Cockroach (Dictyoptera: Blattellidae) from Singapore. *Journal of Economic Entomology* **103** (2): 420-471.
- Chang C, Huang XY, Chang PC, Wu HH, Dai SM. 2012. Inheritance and stability of sodium channel mutations associated with permethrin knockdown resistance in *Aedes aegypti*. *Journal of Pesticide Biochemistry and Physiology* **30**:1–9.
- Cochran, D. G. and M. H. Ross. 1962. Inheritance of DDT-Resistance in a European Strain of *Blattella germanica* (L.). *Bulletin Organization mond Sant* . **27** : 257 – 261.
- Cochran, D. G. 2003. Blattodea (Cockroaches). In: Resh, V. H. and R. T. Carde. 2003. *Encyclopedia of Insects*. Elsevier Science. California.
- Cornwell PB. 1968. *The Cockroach Vol. 1, A Laboratory Insect and an Industrial Pest*. London: Hutchinson.
- Crow, J. F. 1957. Genetics of Insect Resistance to Chemicals. *Annual Review of Entomology*. **2**: 227-246.
- David JP, Faucon F, Chandor-Proust A, Poupardin R, Riaz MA, Bonin A, Navratil V, Reynaud. 2014. Comparative analysis of response to selection with three insecticide in the dengue mosquito *Aedes aegypti* using mRNA sequencing. *BMC Genomics* 15:174.
- Departemen Pertanian. 2006. Pestisida Rumah Tangga dan Pengendalian Vektor Penyakit pada Manusia. Pusat Perizinan dan Investasi, Sekretariat Jenderal Departemen Pertanian. Jakarta.
- Diaz, C., Perez, M. G., Calvo, E., Rodriguez, M. M and Bisset, J. A. 2000. *Insecticide Resistance Studies on Blatella germanica* (Dictyoptera: Blattellidae) from Cuba. *Annals New York Academy of Sciences*. **916**: 628-634.
- Direktorat Pupuk dan Pestisida. 2004. *Metode Pengujian Efikasi Hygene Lingkungan*. Departeman Pertanian.
- Djojosumarto, P. 2008. Pestisida dan Aplikasinya. AgromediaPustaka. Jakarta.
- Eben, A. and Kimmerle, G. 1978. “Propoxur, Effect of Acute and Subacute Oral Doses on Acetyl Cholinesterase Activity in Plasma, Erythrocytes and Brain of Rats”. *Published Report* oleh Bayer AG.
- EPA (Environment Pesticide Agricultural). 1992. “Propoxur”. EXTUNET (Extention Toxicology Network). <http://pmep.cce.edu/profiles/extonet/metiran/propoxur/propoxur-ext.html>. [7 Januari 2018].

- Fardiaz, S. 1992. *Polusi Air dan Udara*. Yogyakarta : Penerbit Kanisus.
- French-Constant R. H. and B. C. Bonning. 1989. Rapid microtitre plate test distinguishes insecticide resistance acetylcholinesterase genotypes in the mosquitoes *Anopheles ahimantre*, *An. Nigerrimus* and *Culex pipiens*. *Med. Vet. Entomol.* **3**:9-16
- Georghiou, G.P., and Mellon, R.B. 1983. *Pepticide Resistance in Time and Space in: Pest Resintence to Pepticides*. Plenum press. New York.
- Georghiou G.P, and Taylor CE. 1977. Genetic and bio-logical influences in the evolution of insecticide resistance. *Journal of Economic Entomology* **70**:319–323.
- Gillott, C. 2005. *Entomology, Third Edition*. Springer. Netherlands.
- Hadi, U. K. 2010. Mengenal Kecoa, Semut dan Laba-laba. <http://upikke.staff.ipb.ac.id/2010/05/25/mengenal-kecoa-semut-dan-labah-labah/Laboratorium> *Entomologi Fakultas Kedokteran Hewan IPB Bogor Indonesia*.
- Hadayya, A dan H. Jayanti. 2012. *Pengelompokkan Pestisida Berdasarkan Cara Kerjanya (mode of action)*. Yayasan Bina Tani Sejahtera. Lembang Bandung Barat. ISBN:978-602-19092-2-5.
- Hansen, K. K, Kristensen, M., and Jensen, K. M. V. 2005: Correlation of Resistance-Associated Rdl Mutation in the German Cockroach, *Blattella germanica* (L), Eight Persistent Resistance in Two Danish Field Population. *Pest Management Science* **61**(8): 749 – 753.
- Heal, R. E., K. B. Nash and M. Williams. 1953. An Insecticide Resistant Strain of the German Cockroach from Corpus Christi, Texas. *Journal of Economic Entomology.* **46** : 385 – 386.
- Hemingway, J. Small, G. J., and Monro, A. G. 1993. Possible Mechanisms of Organophosphorus and Carbamate Insecticide Resistance in German Cockroach (Dictyoptera: Blattellidae) from Different Geographical Areas. *journal of Economic Entomology* **86**(6): 1623 – 1630.
- Jacobs, S. B. 2007. *Entomological Notes: German Cockroach (Blatella germanica (L))*. Pennsylvania State University. United States of America.
- Jannatan, R. 2016. Toksisitas dan Repelensi Ekstrak Sereh Wangi (*Cymbopogon nardus* (L.) kepada Kecoak Jerman (*Blatella germanica* L.) Serta Pengaruhnya Terhadap Konsumsi Makan. Tesis. Universitas Andalas.
- Karunaratne, S. H. P. P. 1998. Insectiside Resistance in Insect: A Review. *Cey. Journal Science (Bio Science)*. **25** : 72–76.

- Kementrian Kesehatan RI. 2012. *Profil Kesehatan Indonesia 2011*. Kemenkes RI. Jakarta.
- Kementrian Kesehatan RI. 2012. *Pedoman Penggunaan Insektisida (Pestisida) dalam Pengendalian Vektor*. Kemenkes RI. Jakarta.
- Koeman, J. H. 1987. *Pengantar Umum Toksikologi*. Universitas gajah mada Press. Yogyakarta.
- Kristensen, M, K.K. Hansen and K.M.V. Jensen, 2005. Cross-resistance between dieldrin and fipronil in German cockroach (Dictyoptera: Blattellidae). *J. Econ. Entomol.*, **98**: 1305-1310.
- Kumar S, Thomas A, Sahgal A, Verma A, Samuel T, Pillai MKK. 2002. Effect of the synergist, piperonyl butoxide, on the development of delta-methrin resistance in yellow fever mosquito, *Aedes aegypti* L. (Diptera: Culicidae). *Archives of Insect Biochemistry and Physiology* **50**:1-8.
- Ladonni, H. 2000. Permethrin Resistance Ratio Compared by Two Methods of Testing Nymphs of the German Cockroach, *Blattella germanica*. *Mwdical and Vaterinary Entomology*. **14**: 213-216.
- Layton, B. 1914. *Household Pest Control*. Missisipi State University, Extension Service. USA.
- Lee, L. C. and C. Y. Lee. 2004. Insecticide Resistance Profiles and Possible Underlying Mechanism in German cockroaches, *Blattella germanica* (Linnaeus) (Dictyoptera: Blattellidae) from Peninsular Malaysia. *Medical Entomology Zoology*. **55** : 77-93.
- Lee, C. Y., Yap, H. H., Chong, N. L. 1996. Insecticide Toxicity on the Adult German Cockroach, *Blattella germanica* (L) (Dictyoptera: Blattellidae). *Journal of Bioscience*. **17A**: 1-9.
- Lee, C.Y., H.H. Yap, N.L. Chong and R.S.T. Lee, 1996. Insecticide resistance and synergism in field collected German cockroaches (Dictyoptera: Blattellidae) in Peninsular Malaysia. *Bull. Entomol. Res.*, **86**: 675-682.
- Lee, C. Y. and L.C. Ng. 2009. *Pest Cockroachhes of singapore: A Scientific Guide for Pest Management Profesionals*. P&Y Design Network. Malaysia.
- Ledvinka, J., Rupes, V., and Tomasek, L. 1984: Current Resistance of *Blattella germanica* to Insecticide in Western Bohemia (Czecholovakia). *Acta Entomological Bohemoslovakia*. **81**: 171 - 77.
- Madona, W. R., R.. Rahayu, Dahelmi dan N. Hariani. 2014. Efektifitas Insektisida

Komersial terhadap Kecoak jerman (*Blattella germanica* L.) Populasi VCRU-WHO, GFA-JKT dan PLZ-PDG dengan Metoda Kontak (Glass Jar). *Jurnal Biologi Universitas Andalas*. **4** (2): 113-118.

Mantolu, Y., Kustiati., T. B. Ambarningrum., S. Yusmalinar., I. Ahmad. 2012. Status dan perkembangan resistensi *Aedes aegypti* (Linnaeus) (Diptera: Culicidae) strain Bandung, Bogor, Makassar, Palu, dan VCRU terhadap insektisida permetrin dengan seleksi lima generasi. *Jurnal Entomologi Indonesia Indonesian Journal of Entomology* 1829-7722.

McEwen, F. L. and G.R. Stephenson. 1979. The use and significant of pesticides in th environment. John Wiley and Sons, Inc. New York.

Nasirian, H., 2010. An overview of German cockroach, *Blattella germanica*, studies conducted in Iran. *Pak. J. Biol. Sci.*, **13**:1077-1084.

Ngabekti, S. 1992. *Penentuan Dosis Efektif Median (ED50) Obat Nyamuk Bakar dan Pengaruh Kronisnya terhadap Struktur dan Fungsi Sistem Pernafasan Mencit (Mus musculus L.)*. Tesis. Yogyakarta : Fakultas Pasca Sarjana UGM.

Nielsen, S. A., Vagn-Jensen, K.-M., Krinstensen, M., and Westh. P. (2006). Energetic Cost Sunacute Chlorpyrifos Intoxication in the German Cockroach (Dictyoptera: Blattellidae). *Environmental Entomology* **35**(4): 837-842.

Oog, B., Oog, C and Ferraro, D. 2006. *Cockroach Control Animal* .Institute of Agriculture and Natural Resources at the University of Nebraska. Lincoln.

Pai, H. H., Wu, S. C., and Hsu E. L. 2005: Insecticide Resistance in German Cockroach (*Blattella germanica*) from Hospital and Households in Taiwan. *Internasional journal of Environmental Health Research* **15**(1): 33 – 40.

Pantoja, C. D, M. G. Perez, E. Calvo, M. M. Rodriguez and J. A. Bisset. 2000. Insecticide Resistance Studies on *Blattella germanica* (Dictyoptera: Blattellidae) from Cuba. *Annals New York Academy of Sciences*. **916** : 628 – 634.

Puji, Endang; Titin Delia, Yuneu Yuliasih, Marliah. 2009. Toksisitas Insektisida Organofosfat dan Karbamat terhadap Jentik Nyamuk *Culex quinquefasciatus*. Aspirator . Vol. 1 No.1

Rahayu, R. 2011. Status dan Mekanisme Resistensi serta *Fitness Blattella germanica* L. (Dictyoptera: Blattellidae) Asal Bandung, Jakarta dan Surabaya Terhadap Propuksur, Permetrin dan Fipronil. Disertasi. Institut Teknologi Bandung. Bandung.

Rahayu, R., I. Ahmad, E. Sri Ratna, M. I. Tan and N. Hariani. 2012. Present Status of Carbamate, Pyrethroid dan Phenylpyrazole Insecticide Resistance to

- German Cockroach, *Blattella germanica* (Dictyoptera: Blattellidae) in Indonesia. *Journal of Entomology* **9**(6): 361-367.
- Robinson, W.H. 1996. *Urban Entomology*. Insect and Mite Pests in the Human Environment. Chapman & Hall. London, 3 – 163.
- Ross, M. H. and Mullins, D. E.. Biologi dalam Rust, M., Owen, J. M., and Reiersen, D. A. *Understanding and Controlling The German Cockroach*. Oxford University press. New York.
- Scharf, M. E., Jonathan, J. N., Gary, W. B. 1997.Changes of Insecticide Resistance Levels and Detoxication Enzymes Following Insecticide Selection in the German Cockroach,*Blattella germanica*(L.). *Pesticide Biochemistry And Physiology* **59**: 67-79.
- Schott, J.G. 1999. Cyttochromes P450 and Insecticide Resistance. *Insect Biochemistry and Molecular Biology*. **29**: 757-777.
- Sofro ASM. 1994. Keanekaragaman Genetik. Yogyakarta: Penerbit Andi Offset.
- Tarumingkeng RC. 1992. Insektisida: Sifat, Mekanisme Kerja dan Dampak Penggunaannya. Jakarta:Universitas Kristen KridaWacana;p 6-9.
- Tisch, M., Faulde, M.K, Maier, H., and Rhinol, A.J. 2005. “Genotoxic Effects of Pentachlorophenol, Lindane, Transflutrin, Cyflutrin, Pyretrum, and Propoxur on Human Mucosal Cells of the Inferior and Middle Nasal Conchae”. *Pesticide Science* **19** (2) : 141-151.
- Umeda, K., Yano, T., and Hirano, M. 1988. Pyrethroid Resistance Mechanism in German Cockroach, *Blattella germanica* (Orthoptera:Blattellidae). *Applied Entomology and Zoology* **23**(4): 373-380.
- USDA. 1992. The Biologic and Economic Assesment of Propoxur . NAPIAP, Extension Service, USDA, Washington, DC.
- Uva Software. 2015. Minitab 17. *Research Data service*. Uva software: United State.
- Vagn Jensen, K. M. 1993. *Insecticide Resistance in Blatella germanica (L.) (Dictyoptera: Blattellidae) from Food Producing Establishments in Denmark*. Proceedings on the Firts International Conference on Urban Pests. Denmark.
- Valles, S. 2014. German Cockroach, *Blattella germanica* (Linnaeus) (Insecta: Blattodea: Blattellidae). *IFAS Extension*. University of Florida. <http://entomology.ifas.ufl.edu/creatures>. Diunduh 7 Januari 2018.
- Valles, S.M. and S.J. Yu, 1996. Detection and biochemical characterization of insecticide resistance in the German cockroach (Dictyoptera: Blattellidae). *J. Econ. Entomol.*, **89**: 21-26.

Wang, C., M. E. Scharf and G. W. Bennet. 2004. Behavioral and Physiological Resistance of The German Cockroach to Gel Baits (Blattodea: Blattellidae). *Journal of Entomology*. **97** (6) : 2067 – 2072.

Whitworth, R. J. 2007. *Household Pest; Cockroaches*. Kansas State University. USA.

WHO. Manual on Practical Entomology in Malaria Part II. Methods and Techniques. WHO, Geneva. 1975.

WHO. 1963. Tentative Instructions for Determining the Susceptibility or Resistance of Cockroaches to Insecticides. In: WHO. 1963. Insecticides Resistance and Vector Control. *World Health Organization Technical Report Series*. **265**: 127-130.

WHO. 1980. Instructions for Determining The Susceptibility or Resistance of Mosquito Larvae to Insecticides. WHO/VBC/80.807



