DAFTAR PUSTAKA

Ali, A., Tengku, M., Kamaruzaman, S., & Siddiqui, Y. 2010. Potential of chitosan coating in delaying the postharvest anthracnose (*Colletotrichum gloeosporioides* Penz.) of Eksotika II papaya. International Journal of Food Science and Technology 45: 2134

Ansari, M.S., Fazil H. & Nadeem A. 2012. Threats to fruit and vegetable crops: fruit flies (Tephritidae) – ecology, behavior, and management. J. Crop. Sci. Biotech 15 (3): 169-188.

Azarakhsh, N., Osman, A., Ghazali, H. M., Tan, C. P., & Mohd Adzahan, N. 2014. Lemongrass essential oil incorporated into alginate-based edible coating for shelf-life extension and quality retention of fresh-cut pineapple. Postharvest Biology and Technology 88: 1–7.

Bekele, J. & Hassanali, A. 2001. Blend effects in he toxicity of the essential oil constituents of *Ocimum kilimandscharicum* and *Ocimum kenyense*(Labiateae) on two post-harvest insect pests. Journal of Phytochemistry 57: 385-391.

Banker GS. 1966. Film coating theory and practice. J.Pharm. Sci55(1): 81.

Bonilla, J., Atarés, L., Vargas, M., Chiralt, A., 2012. Effect of essential oils and homogenization conditions on properties of chitosan-based films. Food Hydrocolloids 26: 9–16.

Calo, J. R., Crandall, P. G., O'Bryan, C. A., & Ricke, S. C. 2015. Essential oils as antimicrobials in food systems - A review. Food Control 54: 111–119.

Camacho, A.P.M., Rocha M.O.C, Brauer J.M.E., Verdugo A.Z.G., Felix F. R., Ortega M.M.C., Gomez M.S.Y., & Jatomea M.P. 2010. Chitosan composite fim: thermal, structural, mechanical, and antifungal properties. Carbohydrate Polymers 82: 305-315.

Chapman, R.F. 1998. The Insect Structure and Function 4th Ed. Cambridge University Press. New York.

Chauhan, N., Malik, A., Sharma, S., & Dhiman, R. C. 2016. Larvicidal potential of essential oils against *Musca domestica* and *Anopheles stephensi*. Parasitol Res. 115:2223-2231.

Chua, T.H. 1994. Egg batch size of the carambola fruit fly, *Bactrocera* sp. (Malaysian A) (Diptera: Tephritidae). Pertanika Journal of Tropical Agriculture Science 17 (2): 107-109.

Chua. T.H. & S.G. Khoo. 1995. Variation in carambola infestation rates by *Bactrocera carambolae* Drew and Hancock (Diptera: Tephritidae) with fruit availability in carambola orchard. Research of Population Ecology 37 (2): 151-157.

Chung, D. D. L. 2010. Composite Materials Science and Application 2nd ed. Springer-Verlag, London.

Clarke, A. R., K. F. Amstrong, A. E. Carmichael, J. R. Milne, S. Raghu, G. K. Roderick, & D. K. Yeates. 2005. Invasive phytophagous pest arising throught

a recent tropical evolutionary radiation: the *Bactrocera dorsalis* complex of fruit flies. Annual Review of Entomology 50: 293-319.

Coma, V., Deschamps, A., & Martial-Gros, A. 2003. Bioactive packaging materials from edible chitosan polymer: Antimicrobial activity assessment on diaryrelated contaminants. Journal of Food Science 68(9): 2788–2792

Dallan, P.RM., Moreira, P., Luz., Petinari, L., Malmonge, S.M., Beppu, M.M., Genari, S.C., & Moraes, A.M. 2006. Effects of chitosan solution concentration and incorporation of chitin and glycerol on dense chitosan membrane properties. J. Biomed. Mater. Res. 394-400

Da Silva, C.D.B., Guterres S.S., Weisheimer V. & Schapoval E.E.S. 2008. Antifungal activity of the lemongrass oil and citral against *Candida* spp. Braz J. Infect Dis. 12:63–66

Despond S, Espuche E, &Domard A. 2001. Water sorption and permeation in chitosan fi lms: Relation between gas permeability and relative humidity. J. Polym. Sci.Pol. Phys.39(24): 3114–3127.

Drew. R.A.I. & D.L. Hancock. 1994. The *Bactrocera dorsalis* complex of fruit flies (Diptera: Tephritidae, Dacinae) in Asia. Bull. Entomol. Res. 1-68

Edris, A. E. 2007. Pharmaceutical and Therapeutic Potentials of Essential Oils and Their Individual Volatile Constituents : A Review, 323(October 2006): 308–323.

Ferreira M.S.C., Fonteles M.C. 1989. Aspectos etnobotânicos e farmacológicos do *Cymbopogon citrates*Stapf (capim limão). Revista Brasileira de Farmácia 70:94-7.

Hasyim, A, Muryati & de Kogel, W.J. 2006. Efektivitas model dan ketinggian perangkap dalam menangkap lalat buah *Bactrocera spp*..J. Hort.16(4): 314-320.

Hasyim, Setiawati, W & Liferdi, L. 2015. Inovasi teknologi pengendalian OPT ramah lingkungan pada cabai: upaya alternative menuju ekosistem harmonis. Pengembangan Inovasi Pertanian (8): 1 – 10.

Honda, K. 1995. Chemical basic of differential oviposition by lepidopterous insect. Arch Insect Biochem Physiol (30) 1-23.

Illum, L. 1998. Chitosan and its us as a pharmaceutical excipient. Review Pharmaceutical Res. 15 (9): 1326-1331.

Jeyasankar, A. 2009. Chemical ecology of fruit fly management. Journal of Basic and Applied Biology 3 (1&2): 1-5.

Kalshoven, L.G.W. 1981. Pest of Crops Indonesia. Revised and Translated by P.A. Van Der Laan. University of Amsterdam with The Assistance of G. Hell. Rothschild, CSIRO, Canberra. P.T. Ichtiar Baru Van Hoeve. Jakarta. 781.

Kamsiati, E. 2006. Pembuatan bubuk sari buah tomat (*Licopersicon esculentum*mill.) dengan metode "Foam-Mat Drying".Jurnal Teknologi Pertanian 7 (2): 113-119.

Kimutai, A., M. Ngeiywa, M. Mulaa, P. G. N. Njagi, J. Ingonga, L. B. Nyamwamu, C. Ombati & P. Ngumbi. 2017. Reppellent effects on the essential oils of

Cymbopogon citrates and *Tagetes minuta* on the sandfly, *Phlebotomus duboscqi*. BMC Res Notes 10:98.

Kumar P, Mishra S, Malik A, Satya S. 2014. Biocontrol potential of essential oil monoterpenes against housefly, *Musca domestica* (Diptera: Muscidae). Ecotox Environ Safe 100:1–6

Kumar, P., Mishra, S., Malik, A., & Satya, S. 2012. Insecticidal evaluation of essential oils of *Citrus sinensis* L. (Myrtales: Myrtaceae) against housefly, *Musca domestica* L. (Diptera: Muscidae). Parasitology Research110(5): 1929–1936.

Kumar, P. Mishra, S., Malik, A., & Satya, S. 2013. Housefly (*Musca domestica* L.) control potential of *Cymbopogon citrates* Stapf. (Poales: Poaceae) essential oil and monoterpenes (citral and 1,8-cineole). Parasitology Research112: 69-76.

Krochta, J. M. & Mulder-Johnstone. 1997. Edible and biodegradable polymer film: challenges and opportunities. J. Food Tech. 51(2): 61-74.

Licciardello, F., Muratore, G., Suma, P., Russo, A., Nerín, C.. 2013. Effectiveness of a novel insect-repellent food packaging incorporating essential oils against the red flour beetle (*Tribolium castaneum*). Innov. Food Sci. Emerg. Tech. 19: 173-180.

Li, H., & Yu, T. 2001. Effect of chitosan on incidence of brown rot, quality and physiological attributes of postharvest peach fruit. Journal of the Science of Food and Agriculture 81(2): 269–274.

Manso, S., Pezo, D., Gomez-Lus, R., & Nerin, C. 2014. Diminution of aflatoxin B1 productioncaused by an active packaging containing cinnamon essential oil. Food Control45: 101–108.

Muzzarelli, R.A.A. 1997. Human enzymatic activities related to the therapeutical administration of chitin derivatives. Cell Mol. Biol. Life Sci. 53: 131.

Norin, T. 2007. Semiochemicals for insect pest management. Pure and Applied Chemistry 12: 2129-2136

Ojagh, S.M., Rezaei, M., Razavi, S.H., & Hosseini, S.M.H. 2010. Development and evaluation of a novel biodegradable film made from chitosan and cinnamon essential oil with low affinity toward water. Food Chemistry 122 (1): 161-166.

Pazinato R, Volpato A, Baldissera MD, Santos RC, Baretta D,Vaucher RA,Giongo JL, Boligon AA, Stefani LM. 2016. *Invitro* effect of seven essential oilson the reproduction of the cattletick *Rhipicephalus microplus*. J Adv Res 7:10291034

Plant Health Australia. 2011. *The Australian Handbook for the Identification of Fruit Flies. Version 1.0.* Plant Health Australia. Canberra, ACT.

Perdones, A., Sa´nchez-Gonza´ lez, L., Chiralt, A., & Vargas, M. 2012. Effect of chitosan–lemon essential oil coatings on storage-keeping quality of strawberry. Postharvest Biology and Technology70: 32–41.

Pushpanathan, T., Jebanesan, A., Govindarajan, M. 2006. Larvicidal, ovicidal and repellent activities of *Cymbopogan citrates* Stapf (Graminae) essential oil against the filarial mosquito *Culex quinquefasciatus* (Say) (Diptera: Culicidae). Trop Biomed 23(2): 208–212.

Rahuman, A. A., Bagavan, A., & Kamaraj, C. 2009. Evaluation of indigenous plant extracts against larvae of *Culex quinquefasciatus* Say (Diptera : Culicidae) 637–643.

Renwick, J.A.A., & Chew F.S. 1994. Oviposition behavior in Lepidoptera. Annu. Rev. Entomol 39: 377-400.

Rinaudo, M. 2006.Chitin and chitosan: properties and applications. Prog. Polym. Sci. 31: 603-632

Sanchez-Gonzalez, L., Vargas, M., Gonzalez-Martinez, C., Chiralt, A., & Chafer, M. 2011. Use of essential oils in bioactive edible coatings. Food Engineering Reviews 3(1): 1–16.

Sauers, M, A. 2005. Host plants of the Carambola Fruit Fly, *Bactrocera carambolae* Drew & Hancock (Diptera: Tephritidae), in Suriname, South America. Neotropical Entomology 34: 203-214.

Sinthusiri, J., & W. Soonwera. 2014. Oviposition deterrent and ovicidal acivities of seven herbal essential oils against female adults housefly,*Musca domestica* L. Parasitology research 113:3015-3022.

Sivakumar, D.& Bautista-Banos, S. 2014. A review on the use of essential oils for postharvestdecay control and maintenance of fruit quality during storage. Crop Protection 64: 27–37.

Siwi, S.S. Purnama, H. dan Suputa. 2006. Lalat buah penting di Indonesia Diptera (Tephritidae). Balai Besar Penelitian dan Pengembangan Bioteknologi dan Sumber Daya Genetik Pertanian dengan Departement of agriculture. Fisheries and Forestry Australia.

Soonwera, M. & Phasomkusolsil S. 2016. Effect of *Cymbopogon* (lemongrass) and *Syzygium aromaticum* (clove) oils on the morphology and mortality of *Aedes aegypti* and *Anopheles dirus* larvae. Parasitol Res. 115: 1691-1703.

Souza, A.C., Goto, G.E.O., Mainardi, J.A., Coelho, A.C.V., and Tadini, C.C. 2013. Cassava starch composite films incorporated with cinnamon essential oil: antimicrobial activity, microstructure, mechanical and barrier properties, Food Science and Technology 54: 346-352.

Suputa. Cahyaniati. K, Anik. 2006. Pedoman Hama Lalat Buah. Direktorat Perlindungan Tanaman Hortikultura Direktorak Jendral Hortikultura. Jakarta. p: 61.

Tsai, G. J. & Su W. H. 1999. Antibacterial activity of shrimp chitosan against *Eschercia coli*. Journal of Food Protection 62 (3): 239-243.

Tyagi AK, Malik A. 2010. Liquid and vapour-phase antifungal activities of selected essential oils against *Candida albicans*: microscopic observations and chemical characterization of *Cymbopogon citrates*. BMC Complement Altern Med 10(1):65

USFDA. 2013. GRAS notice inventory. GRN, No. 397. <www.fda.gov>. diakses pada 12 November 2017.

Vergis, J., Gokulakrishnan, P., Agarwal, R. K., & Kumar, A. 2015. Essential oils as naturalfood antimicrobial agents: A review. Critical Reviews in Food Science and Nutrition 55(10): 1320–1323.

Warikoo R,Wahab & N, Kumar S. 2011. Oviposition-altering and ovicidalpotentials of five essential oils against female adults of the denguevector, *Aedes aegypti* L. Parasitol Res 109:1125–1131

Wong, D.W.S., Gastineau, F.A., Gregorski, K.S.,Tillin, S.J., Pavlath, A.E.1992.Chitosan lipid films: microstructure and surface energy. Journal of Agricultural and. Food Chem40(4): 540–544.

Yoshida, C.M.P., Junior, E.N.O., & Franco, T.T. 2009. Chitosan tailor made film: the effects of additives on bamer and mechanical properties. J. Pack. Thecnol. Sci. 22: 161-170.

Yuan, G., Xiaoe C. & Duo L. 2016. Chitosan films and coating containing essential oils: the antioxidant and antimicrobial activity, and application in food system. Food Research International 89: 117-128.

Yuniarti, P. E. R. Prahardini & P. J. Santoso. 2007. Peningkatan mutu buah mangga Arumanis untuk pasar swalayan. Prosiding Seminar Nasional Agribisnis Mangga, Probolinggo, 10-11 November 2006.

Yuniastuti, S. 2015. Pemanfaatan selasih sebagai pemikat lalat buah pada tanaman sayur dan buah di Jawa Barat. Dalam: Djatnika, I., M. J. A. Syah, D. Widiastoety, M. P. Yufdy, S. Prabawati, S. Pratikno & O. Luthfiyah. (2015) Inovasi Hortikultura Pengungkit Peningkatan Pendapatan Rakyat. IAARD Press. 283–294.

Zhang, J.S., Zhao N.N., Liu Q.Z., Liu Z.L., Du S.S., Zhou L., & Deng Z.W. 2011. Reppelent constituents of essential oil of *Cymbopogon distans* Aerial part against two stored-product insects. Journal of Agric. and Food. Chem. 59: 9910-9915.