

## Daftar Pustaka

- Agency for Toxic Substances and Disease Registry (ATSDR) (2003). Toxicological profile for pyrethrins and pyrethroid. U.S. Department of Health Services Public Health Service, 23-152.
- American Mosquito Control Association (2014). Mosquito control. [www.amca@mosquito.org](http://www.amca@mosquito.org). Diakses April 2016.
- Applied Biosystems (2008). High capacity RNA-to-cDNA kit protocol. Foster: Applied Biosystems, 6-9.
- Aryani R, R. Kurniati, S. Rahmawati (2011). Pengaruh pemakaian obat nyamuk elektrik berbahan aktif d-allethrin terhadap sel darah mencit (*Mus musculus*). Manado. Universitas Sam Ratulangi.
- Baldatina AZ (2008). Pengaruh pemberian insektisida (esbiothrin, imiprothrin dan d-phenothrin) pada tikus putih (*Rattus rattus*), kajian histopatologi hati dan ginjal. Bogor. Institut Pertanian Bogor. Bachelor.
- Barber RD, Dan WH, Robert AC, Brian JC (2005). GAPDH as a housekeeping gene: analysis of GAPDH mRNA expression in a panel of 72 human tissues. *Physiology Genomics*, 21: 389-395.
- Beasley M, Wayne T (2013). pyrethroid toxicity and its management. *BPJ Issue*, 57: 41-43.
- Berra D, Emmanuel B, Amandine G, Vèronique V, Danièle R, Jacques P (2003). HIF prolyl-hydroxylase 2 is the key oxygen sensor setting low steady-state levels of HIF-1 $\alpha$  in normoxia. *The EMBO Journal*, 22 (16): 4082-4090.
- Bonello S, Christian Z, Rachida SB, Taliya D, John H, Carine M, Thomas K, et al. (2007). Reactive oxygen species activate the HIF-1 $\alpha$  promoter via a functional NF $\kappa$ B site. *Arterioscler Thromb Vasc. Biol.*, 27: 755-761.
- Bradberry SM, Cage SA, Proudfoot AT, Vale JA (2005). Poisoning due to pyrethroid. *Toxicol Rev.*, 24 (2): 93-106.
- Bruick RK (2003). Oxygen sensing in the hypoxic response pathway: regulation of the hypoxia-inducible transcription factor. *Genes & Development*, 17: 2614-2623.
- California Department of Public Health (2016). Safety of pyrethrin and pyrethroid pesticides used to control adult mosquitoes. [www.cdph.ca.gov](http://www.cdph.ca.gov). Diakses Februari 2016.
- Cao Z, Timothy JS, Kevin MC, Chris G, Thomas FM (2011). Additivity of pyrethroid action on sodium influx in cerebrocortical primary culture. *Environmental Health Perspectives*, 119 (9): 1239-1246.
- Cavadas MAS, Mesnieres M, Crifo B, Manresa MC, Selfridge AC, Scholz CC, Cummins EP, et al (2015). REST mediates resolution of HIF-dependent gene expression in prolonged hypoxia. *Scientific Reports* 5: 17581.
- Charan J, ND Kantharia (2013). How to calculate sample size in animal studies?. *Educational Forum*, 4 (4): 303-306.
- Cichoz-Lach H, Miichalak A (2014). Oxidative stress as a crucial factor in liver diseases. *World Journal of Gastroenterology*, 20(25): 8082-8091.
- De A, Bose R, Kumar A, Mozumdar S (2014). Targeted delivery of pesticides using biodegradable polymeric nanoparticles. *SpringerBriefs*, 23 (99): 24.

- Direktorat Jenderal Pengendalian Penyakit dan Penyehatan Lingkungan (2012). Pedoman penggunaan insektisida (pestisida) dalam pengendalian vektor. Jakarta: Kementerian Kesehatan RI, pp: 3-26.
- Djojosumarto P (2008). Panduan lengkap pestisida dan aplikasinya. Jakarta: PT Agromedia Pustaka, pp: 104-112.
- Environmental Protection Agency (2016). Pyrethrins and Pyrethroid. [www.epa.gov](http://www.epa.gov).- Diakses April 2016.
- Fardiaz S (1992). Polusi Air dan Udara. Yogyakarta: Kanisius, pp: 71-77.
- Haase VH (2012). Regulation of erythropoiesis by hypoxia-inducible factors. *Blood Reviews*, 27 (2013): 41-53.
- Hardiany NS, Mohamad S, Septelia IW (2013). Ekspresi relatif mrna hypoxia inducible factor-1 $\alpha$  pada sel glioma penderita. *Indonesian Journal of Cancer*, 7 (1): 1-5.
- Hasan S, Yunus SM, Maheshwari TP, Hasan N (2015). Histopathological changes in the motor cortex of rat cns after pyrethroid based mosquito repellent inhalation – an experimental study. *International Journal of Biomedical Research*, 6 (08): 559-562.
- Hoo Y, Hikmat P, Nanny NMS & Augusta YLA (2014). MKB, 46 (2): 100-105.
- Hulse EJ, James OJD, A John S, Alfred MS & Michael E (2014). Respiratory complications of organophosphorus nerve agent and insecticide poisoning. *American Journal of Respiratory and Critical Care Medicine*, 190 (12): 1342-1354.
- Illinois Departement of Public Health (2007). Pyrethroid insecticide. [www.idph.state.il.us](http://www.idph.state.il.us).- Diakses Desember 2015.
- Javed M, Muhammad ZM, Abdul K, Muhammad A, Muhammad AB (2015). Review on exposure, absorption and elimination of pyrethroid in humans. *Journal of Entomology and Zoology Studies*, 3 (5): 180-184.
- Ke Q, Max C (2006). Hypoxia-inducible factor-1 (HIF-1). *Molecular Pharmacology*, 70 (5): 1469-1480.
- Kenneth NS, Rocha S (2008). Regulation of gene expression by hypoxia. *The Biochemical Journal*, 414: 19-29.
- Kumar H, Choi DK, (2015). Hypoxia inducible factor pathway and physiological adaptation: A cell survival pathway?. *Hindawi*, 3-6.
- Laboratorium Biosains Universitas Brawijaya (2012). Instruksi kerja pengambilan darah, perlakuan, dan injeksi pada hewan coba. Malang: Universitas Brawijaya.
- Liu C (2007). Functional characterization of mustn1 during skeletal myogenesis. New York. Stony Brook University. Dissertation.
- Liu W, Shao-Ming S, Xu-Yun Z, Guo-Qiang C (2012). Targeted genes and interacting proteins of hypoxia inducible factor-1. *Int. J. Biochem. Mol. Biol.*, 3 (2): 165-178.
- Molavi M, Razi M, Cheraghi H, Khorramjouy M, Ostadi A, Gholirad S (2016). Protective effect of vitamin E on cypermethrin-induced follicular atresia in rat ovary: evidence for energy dependent mechanism. *Veterinary Research Forum*, 7 (2): 125-132.
- National Center for Biotechnology Information (2014). Polymerase chain reaction (PCR). [www.ncbi.nlm.nih.gov/probe](http://www.ncbi.nlm.nih.gov/probe).- Diakses Juni 2016.

- National Center for Biotechnology Information (2016). HIF1A hypoxia inducible factor 1 alpha subunit [Homo sapiens (human)]. [www.ncbi.nlm.nih.gov/gene](http://www.ncbi.nlm.nih.gov/gene).- Diakses Maret 2016.
- Natadisastra D, Ridad A (2009). Parasitologi kedokteran ditinjau dari organ tubuh yang diserang. Jakarta: EGC.
- Nguyen LK, Cavadas MAS, Scholz CC, Fitzpatrick SF, Bruning U, Cummins EP, Tambuwala MM, et al (2015). A dynamic model of hypoxia-inducible factor 1a (HIF-1a) network. *Journal of Cell Science*, 126: 1454-1463.
- Nieradko-Iwanicka B, A Borzecki, B Jodlowska-Jedrych (2015). Effect of subacute poisoning with bifenthrin on locomotor activity, memory retention, haematological, biochemical and histopathological parameter in mice. *Journal of Physiology and Pharmacology*, 66 (1): 129-137.
- P. Darwin M, Handono K, Djoko WS, Aru WS, Fatchiyah (2012). Ekspresi hypoxia-inducible factor-1 $\alpha$ —menginduksi ekspresi eritropoietin intraseluler, dan vascular endothelial growth factor pada penderita kanker payudara dengan anemia. *Jurnal Kedokteran Brawijaya*, 27 (2): 77-82.
- Pialoux V, Mounier R (2012). Hypoxia-Induced Oxidative Stress in Health Disorders. *Oxidative Medicine and Cellular Longevity*, 940121: 1-2.
- Prastiwi EP (2015). Pengaruh penggunaan obat nyamuk coil dan mat elektrik terhadap sel darah mencit (*Mus musculus*, L.). Surakarta. Universitas Muhammadiyah Surakarta. Skripsi.
- Qutub AA, Aleksander SP (2008). Reactive oxygen species regulate hypoxia-inducible factor 1 $\alpha$  differentially in cancer and ischemia. *Molecular and Cellular Biology*, 28 (16): 5106-5119.
- Raini M (2007). Toksikologi pestisida dan penanganan akibat keracunan pestisida. *Media Litbang Kesehatan*, 17 (3): 10-18.
- Raini M (2009). Toksikologi insektisida rumah tangga dan pencegahan keracunan. *Media Penelitian dan Pengembangan Kesehatan*, 19 (2): s27-33.
- Reece JB, Lisa A, Michael LC, Steven A, Peter VM, Robert BJ (2015). *Campbell biology 10th edition*. Melbourne: Pearson Australia Group, pp: 1096.
- Rehman H, Al TA, Shalini S, Zahid KA, Anand M, Abid AA (2014). Systematic review on pyrethroid toxicity with special reference to deltamethrin. *Journal of Entomology and Zoology Studies*, 2 (6): 60-70.
- Sadlecki P, Bodnar M, Grabiec M, Marszalek A, Walentowiz P, Sokup A, Zegarska J, et al (2014). The role of hypoxia-inducible factor-1 $\alpha$ , glucose transporter-1 (GLUT-1) and carbon anhydrase ix in endometrial cancer patients. *BioMed Research International*, 2014: 1-11.
- Saillenfait AM, Dieynaba N, Jean PS (2015). Pyrethroids : exposure and health effects – an update. *International Journey of Hygiene and Enviromental Health*, 218: 281-292.
- Saka WA, Akhigbe RE, Azeez OM, Babatunde TR (2011). Effects of pyrethroid insecticide exposure on haematological and haemostatic profiles in rats. *Pakistan Journal og Biological Sciences*, 14 (22): 1024-1027.
- Seidler NW (2013). *GAPDH: Biological Properties and Diversity*. Kansas: Springer. pp:15-19.
- Sembel DT (2015). Toksikologi lingkungan. Yogyakarta: ANDI. pp: 206-207.
- Semenza GL (2007). Hypoxia-inducible factor 1 (HIF-1) pathway. *Science Signaling*, (407).

- Semenza GL (2010). Defining the role of hypoxia-inducible factor 1 in cancer biology and therapeutics. *Oncogene*, 29: 625–634.
- Semenza GL (2012). Hypoxia-inducible factors in physiology and medicine. *Cell*, 148: 399-408.
- Shafer TJ, Douglas AM, Kevin MC (2004). Developmental neurotoxicity of pyrethroid insecticides: critical review and future research needs. *Environmental Health Perspectives*, 113 (2): 123-136.
- Sherwood L (2014). *Human physiology: From cells to systems* 9<sup>th</sup> edition. Boston: Cengage Learning.
- Shukla SD, Pandey GN (2012). *A text book of chemical technology*. Naew Delhi: Vikas Publishing House Pvt.
- Stahl A (2002). The health effects of pesticides used for mosquito control. New York: Citizens Campaign for the Environment and Citizens Environmental Research Institute. pp: 1-12.
- Somade OT, Ayobami EO, Olaide O, Nkoyo MU (2015). Extra-pulmonary oxidative stress investigations of an over-the-counter pyrethroid insecticide product in rats. *African Journal of Biotechnology*, 14 (12): 1081-1087.
- Sudarmo (2007). *Pestisida*. Yogyakarta: Penerbit Kanisius. pp: 34-41.
- Taiwo VO, ND Nwagbara, R Suleiman, JE Angbashim, MJ Zarma (2008). Clinical signs and organ pathology in rats exposed to graded doses of pyrethroids-containing mosquito coil smoke and aerosolized insecticidal sprays. *African Journal of Biomedical Research*, 11: 97-104.
- Thatheyus AJ, Selvan ADG (2013). Synthetic pyrethroids: toxicity and biodegradation. *Madurai. Ecology and Environmental Sciences*, 1 (3): 33-36.
- Tsuji R, Kobayashi K, Ikeda M, Yoshioka T, Yamada T, Seki T, Okuno Y, et al (2002). Lack of changes in brain muscarinic receptor and motor activity of mice after neonatal inhalation exposure to d-allethrin. *Journal of Applied Toxicology*, 22 (6): 423-429.
- Uchida T, Rossignol F, Matthey MA, Mounier R, Couette S, Clottes E, Clerici C (2004). Prolonged hypoxia differentially regulates hypoxia-inducible factor (HIF-1 $\alpha$ ) and HIF-2 $\alpha$  expression in lung epithelial cells. *The Journal of Biological Chemistry*, 279(15): 14871-14878.
- Ueno M, Maeno T, Nomura M, Aoyagi-Ikeda K, Matsui H, Hara K, Tanaka T, et al (2011). Hypoxia-inducible factor-1 $\alpha$  mediates TGF- $\beta$ -induced PAI-1 production in alveolar macrophages in pulmonary fibrosis. *AJP Lung Cell Mol. Physiol.*, 300: L740-752.
- Wahyuni T (2011). *Ekspresi gen CSF3SYN dengan promotor konstitutif PGAP pada Pichia pastoris*. Depok. Universitas Indonesia. Bachelor.
- Wanandi SI, Syarifah D, Reni P (2009). Ekspresi relatif mrna hif-1 $\alpha$  pada jantung, otak dan darah tikus selama induksi hipoksia sistemik. *Makara Sains*, 13 (2): 185-188.
- Weidemann A, Johnson RS (2008). Biology of HIF-1 $\alpha$ . *Cell Death and Differentiation*, 15: 621-627.

- Wolansky MJ, Gennings C, DeVito MJ, Crofton M (2009). Evidence for dose-additive effects of pyrethroid on motor activity in rats. *Environmental Health Perspectives*, 117 (10): 1563-1570.
- Wudianto R (2007). *Petunjuk penggunaan pestisida*. Jakarta: Penerbit Penebar Swadaya.
- Yasuo M, Mizuno S, Kraskauskas D, Bogaard HJ, Natarajan R, Cool CD, Zamora M, *et al* (2011). Hypoxia inducible factor-1 $\alpha$  in human emphysema lung tissue. *European Respiratory Journal*, 37: 775-783.
- Zainuri M, Lutfah R (2013). Kajian peran manganese-containing super oxide dismutase (MNSOD) dalam regulasi ekspresi hypoxia inducible factor-1 $\alpha$  (HIF-1 $\alpha$ ) pada keadaan hipoksia. *Media Litbangkes*, 23 (4): 143-148.
- Zhu Y, Tan J, Xie H, Wang J, Meng X, Wang R (2016). HIF-1 $\alpha$  regulates emt via snail and  $\beta$ -catenin pathways in paraquat poisoning-induced early pulmonary fibrosis. *Journal of Cellular and Molecular Medicine*, 20 (4): 688-697.
- Ziello JE, Ion SJ, Yan H (2007). Hypoxia-inducible factor (HIF)-1 regulatory pathway and its potential for therapeutic intervention in malignancy and ischemia. *Yale Journal of Biology and Medicine*, 80: 51-60.

