

DAFTAR PUSTAKA

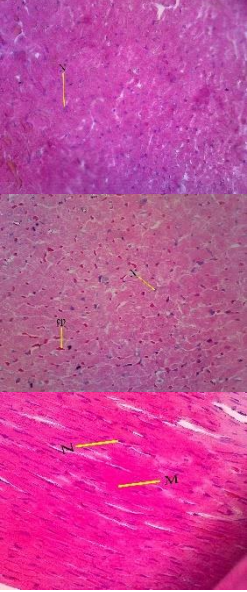
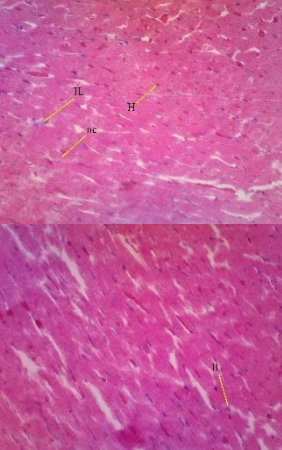
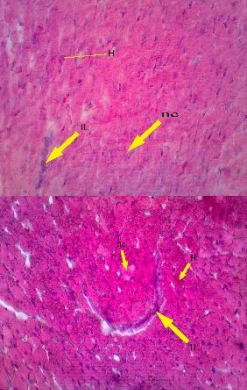
- Ahmed, O.K., Shehab, G.M.G. dan Abdel-Mobdy, Y.E. 2013. Semi-modified carrot diet alleviates the toxicity effects of dimethoate in albino rats. *Australian Journal of Basic and Applied Sciences*, 7(14):554-561.
- Amara, I.B., Soudani, N., Hakim, A., Troudi, A., Zeghal, K.M., Boudawara, T. dan Zeghal, N., 2011. Protective effects of vitamin E and selenium against dimethoate-induced cardiotoxicity in vivo: Biochemical and histological studies. *Environmental toxicology*, 28(11): 630-643.
- Colovic, M.B., Krstic, D.Z., Lazarevic-Pasti, T.D., Bondzic, A.M. dan Vasic, V.M. 2013. Acetylcholinesterase inhibitors: pharmacology and toxicology. *Current neuropharmacology*. 11(3):315-335.
- Colville, Thomas dan Joanna M. Bassert. 2016. *Clinical Anatomy and Physiology for Veterinary Technicians, Third Edition*. Elsevier:Missouri
- Daely, A.T.I. dan Manurung, R., 2020. Pemanfaatan Hidrofobik Deep Eutectic Solvents dalam Penyisihan Dimetoat, Klorpirifos, dan Profenofos pada Buah Tomat dan Sayur Brokoli. *Jurnal Teknik Kimia USU*. 9(1):7-10.
- Davies, J., Roberts, D., Eyer, P., Buckley, N. dan Eddleston, M. 2008. Hypotension in severe dimethoate self-poisoning. *Clinical toxicology*, 46(9):880-884.
- Deshai, R.B., Shinde, V.D., Katore, B.P. dan Ambore, N.E., 2012. The lethal effect of dimethoate on heart beat rate of female crab *Brytelphusa guerini*. *Journal of Experimental Sciences*. 3(8)
- D'Oria, R., Schipani, R., Leonardini, A., Natalicchio, A., Perrini, S., Cignarelli, A., Laviola, L. and Giorgino, F. 2020. The role of oxidative stress in cardiac disease: from physiological response to injury factor. *Oxidative medicine and cellular longevity*, 2020:29
- El-Wakf, A.M., El-Habibi, E.S.M., Barakat, N.M., Attia, A.M., Hussein, A.M. and Ali, I.I. 2018. Cardiovascular toxic effects of chlorpyrifos: a possible protective role for pomegranate extracts. *J Clin Toxicol*, 8(374):2161-0495.
- European Food Safety Authority (EFSA), Arena, M., Auteri, D., Barmaz, S., Bellisai, G., Brancato, A., Brocca, D., Bura, L., Byers, H., Chiusolo, A. dan Court Marques, D., 2018. Peer review of the pesticide risk assessment of the active substance chlorothalonil. *EFSA Journal*, 16(1)
- Hilma, N., Nuri, N., Puspitasari, E. dan Ningsih, I.Y. 2018. Gambaran Histopatologi Organ Jantung Tikus Putih Jantan Galur Wistar (*Rattus norvegicus*) dalam Uji Toksisitas Akut Kombinasi Ekstrak Daun Jati Belanda (*Guazuma ulmifolia* Lmk.) dan Kelopak Bunga Rosella (*Hibiscus sabdariffa* L.). *Pustaka Kesehatan*, 6(2):240-244.
- Judge, S.J., Savy, C.Y., Campbell, M., Dodds, R., Gomes, L.K., Laws, G., Watson, A., Blain, P.G., Morris, C.M. dan Gartside, S.E. 2016. Mechanism

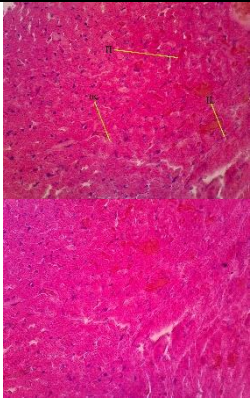
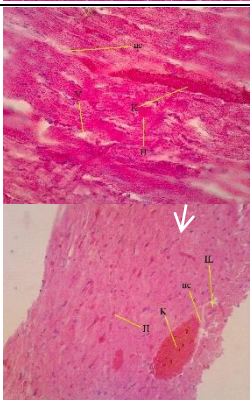
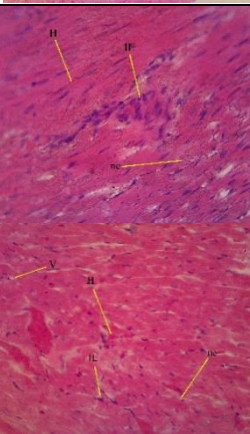
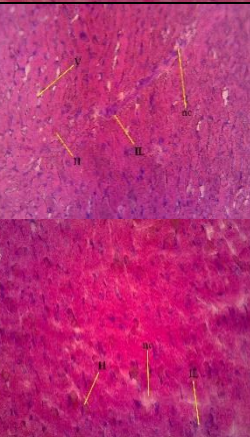
- for the acute effects of organophosphate pesticides on the adult 5-HT system. *Chemico-biological interactions*, 245:82-89.
- Kartika, A.A., Hotnida, H.C.H. dan Fuah, A.M. 2013. Strategi Pengembangan Usaha Ternak Tikus (*Rattus norvegicus*) dan Mencit (*Mus musculus*) di Fakultas Peternakan IPB. *Jurnal Ilmu Produksi dan Teknologi Hasil Peternakan*. 1(3):147-154.
- Kasiotis, K.M., Souki, H., Carageorgiou, H. dan Machera, K. 2011. Determination of dimethoate and omethoate in human serum samples. Risk assessment for the operator. *International Journal of Environmental Analytical Chemistry*, 91(9):876-883
- Liu, X., Li, Y., Zhou, X., Luo, K., Hu, L., Liu, K. dan Bai, L. 2018. Photocatalytic degradation of dimethoate in Bok choy using cerium-doped nano titanium dioxide. *Plos one*, 13(5)
- Lu, L., Sun, R., Liu, M., Zheng, Y. dan Zhang, P. 2015. The inflammatory heart diseases: causes, symptoms, and treatments. *Cell biochemistry and biophysics*, 72(3): 851-855
- Nazam, N., Lone, M.I., Hamid, A., Qadah, T., Banjar, A., Alam, Q., Saeed, M. dan Ahmad, W. 2020. Dimethoate Induces DNA Damage and Mitochondrial Dysfunction Triggering Apoptosis in Rat Bone-Marrow and Peripheral Blood Cells. *Toxics*, 8(4):80.
- Maynard, R.L dan Noel D. 2019. *Anatomy and Histology of The Laboratory Rat In Toxicology and Biomedical Research*. Academic Press:London
- Mitra, A. dan Maitra, S.K. 2018. Reproductive toxicity of organophosphate pesticides. *Ann Clin Toxicol*. 1(1): 1004.
- Ndagu, Lusiana Flora., Anak Agung Gde Arjana dan I Ketut Berata. 2013. Madu berefek protektif terhadap infiltrasi sel radang dan perdarahan ginjal akibat induksi aspirin. *Indonesia Medicus Veterinus*. 2(1):102-114
- Ngoula, F., Watcho, P., Kenfack, A., Manga, J.N.Z., Defang, H.F., Pierre, K. dan Joseph, T. 2014. Effect of dimethoate (an organophosphate insecticide) on the reproductive system and fertility of adult male rat. *American journal of pharmacology and toxicology*, 9(1):75.
- Pearson, J.N. and Patel, M. 2016. The role of oxidative stress in organophosphate and nerve agent toxicity. *Annals of the New York Academy of Sciences*, 1378(1):17.
- Purba, I. G. 2009. *Analisis faktor-faktor yang berhubungan dengan kadar kolinesterase pada perempuan usia subur di daerah pertanian*. [Tesis]. Semarang: Universitas Diponegoro
- Qayoom, I., Shah, F.A., Mukhtar, M., Balkhi, M.H., Bhat, F.A. dan Bhat, B.A. 2016. Dimethoate induced behavioural changes in juveniles of *Cyprinus carpio* var. *communis* under temperate conditions of Kashmir, India. *The Scientific World Journal*.

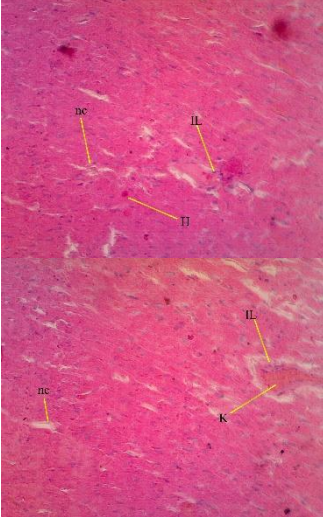
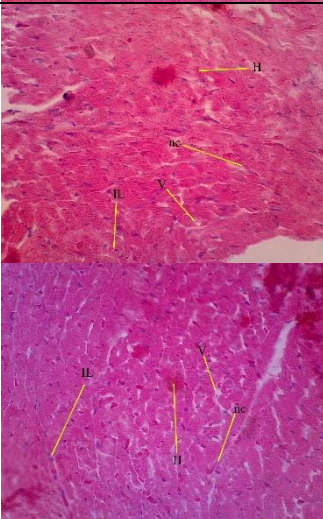
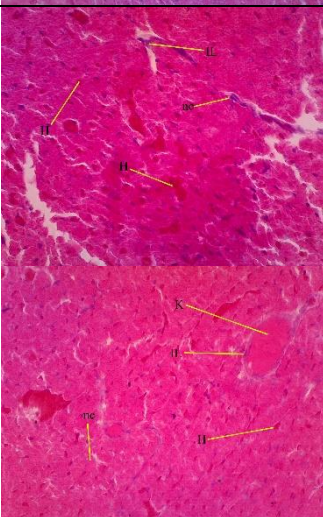
- Rahayu, M. dan Moch F.S. 2018. *Toksikologi Klinik*. Pusdik SDM Kesehatan-Kemertrian Kesehatan RI: Jakarta
- Sapitri, H., Sutomo, S., Zaman, M.K. dan Muhamadiah, M. 2019. Analisis Residu Pestisida (Dimethoat) pada tanaman cabai merah besar (*Capsicum annum L.* Kelompok Tani Lestari Jaya Kabupaten Kampar. *Photon: Jurnal Sain dan Kesehatan*, 9(2):1-7.
- Sharp, P dan Jason V. 2012. *The laboratory Rat Second edition*. CRC Press:Boca Raton
- Thent, Z.C., Lin, T.S., Das, S. dan Zakaria, Z. 2012. Histological Changes in the Heart and the Proximal Aorta In Streptozotocin-Induced Diabetic Rats Following Piper Sarmentsoum Administration. *African Journal of Traditional, Complementary and Alternative Medicines*, 9(3): 396-404.
- Umar, Y.P., Wignyanto, W. dan Sunyoto, N.M.S. 2017. Isolat Bakteri dan Kemampuannya mendegradasi Dimethoat. *Industria: Jurnal Teknologi dan Manajemen Agroindustri*, 4(3):97-101.
- Van Scoy, A., Pennell, A. and Zhang, X., 2016. Environmental fate and toxicology of dimethoate. In *Reviews of Environmental Contamination and Toxicology Volume 237* (pp. 53-70). Springer, Cham.
- Wexler, P. 2014. *Encyclopedia of Toxicology (Third Edition)*. Academic Press:London
- Widiartini, W., Siswati, E., Setiyawati, A., Rohmah, I.M.dan Prastyo, E. 2013. Pengembangan usaha produksi tikus putih (*Rattus norvegicus*) tersertifikas dalam upaya memenuhi kebutuhan hewan laboratorium. *Program Kreativitas Mahasiswa-Kewirausahaan*.

LAMPIRAN

Lampiran 1. Tingkat Kerusakan Jantung

Kelompok	Gambar	Kerusakan	Ket
<p>Perlakuan 0 hari ke-0, 7 dan 14 (Tidak diberi dimethoate)</p>		<p>Inti sel jelas, Tidak ada hemoragi, normal</p>	<p>normal</p>
<p>Perlakuan 1 Hari ke-0</p>		<p>Infiltrasi leukosit (1), Hemoragi (1), sel nekrosis (1)</p>	<p>Ringan</p>
<p>Perlakuan 1 Hari 7</p>		<p>Nekrosis (1), Infiltrasi leukosit (2), Hemoragi (1)</p>	<p>Ringan</p>

<p>Perlakuan 1 Hari 14</p>		<p>Nekrosis (2), Infiltrasi Leukosit (2), Hemoragi (2), Separasi serabut otot (1)</p>	<p>Sedang</p>
<p>Perlakuan 2 hari 0</p>		<p>Nekrosis (1), Infiltrasi leukosit (1), Hemoragi (2)</p>	<p>Ringan</p>
<p>Perlakuan 2 hari 7</p>		<p>Nekrosis (2), Infiltrasi leukosit (2), Hemoragi (2), Vakuolisasi (1), Separasi serabut otot (2)</p>	<p>Sedang</p>
<p>Perlakuan 2 hari 14</p>		<p>Nekrosis (3), Infiltrasi leukosit (2), Hemoragi (2), Vakuolisasi (3), Separasi serabut otot (1)</p>	<p>Berat</p>

<p>Perlakuan 3 hari 0</p>		<p>Nekrosis (2), Separasi serabut otot (2), Infiltrasi leukosit (1), Hemoragi (1)</p>	<p>Sedang</p>
<p>Perlakuan 3 hari 7</p>		<p>Nekrosis (3), Separasi serabut otot (2), Infiltrasi leukosit (2), Hemoragi (3) Vakuolisasi (1)</p>	<p>Berat</p>
<p>Perlakuan 3 hari 14</p>		<p>Nekrosis (3), Separasi serabut otot (3), Infiltrasi Leukosit (3), Hemoragi (3), Vakuolisasi (3)</p>	<p>Berat</p>

Keterangan

<p>Nc : nekrosis</p>	<p>IL: Infiltrasi leukosit</p>
<p>H: Hemoragi</p>	<p>V: Vakuolisasi</p>

Lampiran 2. Dokumentasi Kegiatan Penelitian

