

## DAFTAR PUSTAKA

- Abd El-Hack, M.E., M.E. Shafi, W.Y. Alghamdi, S.A. Abdelnour, A.M. Shehata, A.E. Noreldin, E.A. Ashour, A.A. Swelum, A.A. Al-Segan, M. Alkhateeb, A.E. Taha, A.E. Abdel Moneim, V. Tuarelli and M. Ragni. 2020. Black soldier fly (*Hermetia illucens*) meal as a promising feed ingredient for poultry: a comprehensive review. *Agriculture*. 10(399):1-31.
- Aprianto, M.A., A. Kurniawati, C. Hanim, B. Ariyadi, and M. Al Anas. 2023. Effect supplementation of black soldier fly larvae oil (*Hermetia illucens L.*) calcium salt on performance, blood biochemical profile, carcass characteristic, meat quality, and gene expression in fat metabolism broilers. *Journal of Poultry Science*. 102(10): 102984.
- Armaghoza, H. H. S., Nugroho, S., Sungkono, S., Widodo, S. L., Saputra, B. C., Aprianto, M. A., Anas, M. A. 2024. Evaluation of black soldier fly larvae oil (*Hermetia illucens L.*) calcium salt as an alternative fat source for laying quail diets. *Animal Bioscience*. Oct 25. doi: 10.5713/ab.24.0289.
- Aziz, Z., S. Cyriac, V. Beena and P. T. Philomina. 2012. Comparison of cholesterol content in chicken, duck and quail eggs. *Journal of Veterinary and animal science*. 43: 64-66.
- Bacha Jr, W. J., Bacha, L. M. 2012. *Color atlas of veterinary histology*. 3th ed. John Wiley & Sons, Ltd. Sussex.
- Baltic, M., Djukic, A., Nestic, K., Djordjevic, V. 2017. Prolonged lipid accumulation in cultured primary human hepatocytes rather leads to ER stress than oxidative stress. *International Journal of Molecular Sciences*, 21(19), 7097
- Bell, P. 2020. Normal liver histology 101. *American Association for the Study of Liver Diseases (AASLD)*. <https://www.aasld.org/liver-fellow-network/core-series/pathology-pearls/normal-liver-histology-101>. Diakses pada tanggal 12 Januari 2025
- Brancatelli, G., Furlan, A., Calandra, A., Dioguardi Burgio, M. 2019. Hepatic sinusoidal dilatation. *Abdominal Radiology*, 43, 2011-2022.
- Chen, Y. C., Tsai, H. J., Chou, C. C. 2019. Fatty liver and oxidative stress in laying hens. *Livestock Science*, 226, 103974
- Chu, X., He, X., Shi, Z., Li, C., Guo, F., Li, S., Li, Y., Na, L., Sun, C. 2015. Ursolic acid increases energy expenditure through enhancing free fatty acid uptake

and  $\beta$ -oxidation via an UCP3/AMPK-dependent pathway in skeletal muscle.. *Molecular nutrition & food research*, 59 8, 1491-503 .

- Dabbou, S., A. Lauwaerts, I. Ferrocino, I. Biasato, F. Sirri., M. Zampiga, S. Bergagna, G. Pagliasso, M. Gariglio, E. Colombino, C.G. Narro, F. Gai, M.T. Capucchio, L. Gaco, L. Cocolin and A. Schiavone. 2018. Modified black soldier fly larva fat IN broiler diet: effects on performance, carcass traits, blood parameters, histomorphological features AND gut microbiota. *Animals*. 11:1837.
- Damara, D., Berata, I. K., Ardana, I. B. K., Setiasih, N. L. E., Sulabda, I. N. 2021. Hubungan berat badan dengan berat hati serta gambaran histologi hati broiler yang diberikan tepung maggot. *Indonesia Medicus Veterinus*. 10(5), 714-724.
- Direktorat Jenderal Kementerian Pertanian. 2018. Produksi Telur burung Puyuh. Pusat Data dan Sistem Informasi Pertanian Sekretariat Jenderal Kementerian Pertanian. Jakarta.
- Driessen, S., Francque, S. M., Anker, S. D., Cabezas, M. C., Grobbee, D. E., Tushuizen, M. E., & Holleboom, A. G. 2023. Metabolic dysfunction associated steatotic liver disease and the heart. *Hepatology*, 10-1097.
- Dumas, A., T. Raggi, J. Barkhouse, E. Lewis and E. Weltzien. 2018. The oil fraction and partially defatted meal of black soldier fly larvae (*Hermetia illucens*) affect differently growth performance, feed efficiency, nutrient deposition, blood glucose and lipid digestibility of rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*. 492: 24-34.
- English, G., G. Wanger and S.M. Colombo. 2021. A review of advancements in black soldier fly (*Hermetia illucens*) production for dietary inclusion in salmonid feeds. *Journal of Agriculture and Food Research*. 5: 1-9.
- Fahmi, M. R., Hem, S., & Subamia, I. W. 2009. Potensi maggot untuk peningkatan pertumbuhan dan status kesehatan ikan. *Jurnal Akuakultur Indonesia*, 8 (2), 199–205.
- Ferlito, C., Respatiadi, H., 2019. *Reformasi Kebijakan pada Industri Unggas di Indonesia*. Center for Indonesian Policy Studies. Jakarta
- Gordillo, M., Evans, T., Gouon-Evans, V. 2015. Orchestrating liver development. *Development*. 15;142(12):2094-108. doi: 10.1242/dev.114215.
- Hedayat, Mohammad Amin, Drexler, Daniela, Forster, Melanie, Rennie, Christiane, Gradl, Regina, Pfeiffer, Franz, & Herzen, Julia. (2019). Multiscale X-ray phase-contrast CT uncovers adaptive changes and

compensatory mechanisms of circulatory pathways during acute liver injury. *Nature Communications*, 10(1), 1–12.

Hiramatsu, Kenji, Matsuzawa, Asuka, Takahashi, Masanori, & Kimura, Yoshiyuki. (2015). High density lipoprotein from egg yolk (EYHDL) improves dyslipidemia by mediating fatty acids metabolism in high fat diet-induced obese mice. *Lipids in Health and Disease*, 14(1), 1–10.

Horai, Y., Akatsuka, A., Mizukawa, M., Nishina, H., Nishikawa, S., Ono, Y., Takemoto, K., Mochida, H. 2020. Current status and prospects for quantitative analysis of digital image of pathological specimen using image processing software including artificial intelligence. *Translational and Regulatory Sciences*, 2(3), 72–79.

Horton, J. D., Goldstein, J. L., Brown, M. S. 2002. Sterol regulatory element-binding proteins (SREBPs): Transcriptional regulators of lipid synthetic genes. *Current Opinion in Lipidology*, 13(2), 113–118.

Jones, P. J. H. 2009. Dietary cholesterol and the risk of cardiovascular disease in patients: a review of the Harvard Egg Study and other data. *International Journal of Clinical Practice*, 63(s163), 1–8.

Juby, A. G., S. C. Cunnane, dan and D. R. Mager. 2023. Refueling the post COVID-19 brain: potential role of ketogenic medium chain triglyceride supplementation: An hypothesis. *Front Nutrition*. 10: 1126534.

Kalsum, U., H. Soetanto, Achmanu, dan and O. Sjojfan. 2012. Influence of a Probiotic containing *Lactobacillus fermentum* on the laying performance and egg quality of Japanese quails. *International Journal Poultry Science*. 11(4): 311-315.

Khatun, J., T.C. Loh, H. Akit, H.L. Foo and R. Mohamad. 2017. Fatty acid composition, fat deposition, lipogenic gene expression and performance of broiler fed diet supplemented with different source of oil. *Animal Science Journal*. 1-8.

Kim, B.Y., D.H. Kim, S.B. Jeong, J.W. Lee, T.H. Kim, H.G. Lee and K.W. Lee. 2020. Black soldier fly larvae oil as an alternative fat source in broiler nutrition. *Poultry Science*. 99: 3133-3243.

Lokapirnasari, W. P. (2017). *Nutrisi dan manajemen pakan burung puyuh*. Airlangga University Press.

Maknun, L., Kismiati, S. Mangisah, I., 2015. Performans Produksi Burung Puyuh (*Coturnixcoturnix japonica*) dengan Perlakuan Tepung Limbah Penetasan Telur Puyuh. *Jurnal Ilmu-Ilmu Peternakan*, 25(3), pp. 53-58.

- Mangisah, I., Mulyono, Vitus Dwi, Y. 2022. *Maggot Bahan Pakan Sumber Protein Untuk Unggas*. Semarang : UndipPress
- Mescher, A. L. 2018. *Junqueira's Basic Histology: Text and Atlas* (14th ed.). McGraw-Hill Education.
- Moon YS. 2018. Lipid Metabolism and Fatty Liver in Poultry. *Korean Journal Poultry Science*. 45(2): 109-118.
- Nafisah SM, Iriyanti N, Hartoyo B. 2019. Penggunaan Fermeherbafit Enkapsulasi Dalam Pakan Terhadap Kolesterol Dan Lemak Hati Pada Ayam Sentul Abu Jantan. *Journal of Animal Science and Technology*. 1(2): 129-136.
- Nasar, A., A. Rahman, N. Hoque, A. K. Talukder, dan and Z. C. Das. 2016. A survey of Japanese quail (*Coturnix coturnix japonica*) farming in selected areas of Bangladesh. *Veterinary World*. 9(9): 940-947.
- Ndaong NA, Wijayanti AD, Widyarini S. 2014. Efek Pemaparan Deltamethrin Terhadap Aktivitas Enzim Alanin Aminotransferase, Aspartate Aminotransferase Dan Gambaran Histologi Hepar. *Jurnal Kajian Veteriner* 2(1): 79-87
- Nugroho dan Mayun, 1990. *Beternak Burung Puyuh..* Semarang: Eka Offset.
- Schiavone, A., M.D. Marco, S. Martinez, S. Dabbou, M. Renna, J. Madrid, F. Hernandez, L. Costa, F. Gai and L. Gasco. 2016. Nutritional value of a partially defatted and a highly defatted black soldier fly larvae (*Hermetia illucens* L.) meal for broiler chickens: apparent nutrient digestibility, apparent metabolizable energy and apparent ileal amino acid digestibility. *Journal of Animal Science and Biotechnology*. 8:51.
- Sijabat, A. C. G., Isdadiyanto, S., & Sitaswi, A. J. 2024. Histopatologi hepar tikus dengan induksi pakan tinggi lemak setelah pemberian biji mahoni. *Jurnal Ilmu Pertanian Indonesia*, 29(3), 482–490.
- Soliman, G. A. 2018. Dietary cholesterol and the lack of evidence in cardiovascular disease. *Nutrients*;10(6): 780.
- Tabeidian, S.A., and G.H. Sadeghi. 2008. Use of plant based calcium salt of fatty acids in broiler diets. *International Journal of Poultry Science*. 5(1): 96-98.
- Tian, Y., Wong, V. W.-S., Wong, G. L.-H. 2019. Pathogenesis of nonalcoholic steatohepatitis. *Clinics in Liver Disease*, 23(3), 389–398.
- Tocher, D. R., Glencross, B. D. (2015). Lipid metabolism and nutrition in aquaculture: A review. *Aquaculture Research*, 46(4), 684–699.
- Wardana, A. W., 2017. *Anatomi Unggas*. s.l.:UB Press.

- Whiendrata, H. S., 2014. *Panduan Lengkap Beternak Burung Puyuh Petelur*. Yogyakarta: Lily Publisher.
- Wisse, E., et al. 2008. Structure and function of sinusoidal lining cells in the liver. *Toxicologic Pathology*, 34(7): 874–884.
- Witono, J. R. B., 2023. *Sisi Ilmiah Maggot – Black Solider Fly Larvae (BSF; Hermentia Illucens )*. s.l.:Deepublish.
- Xu, e., c. Chen, J. Fu, L. Zhu, J. Shu, M, Jin, Y. Wang and X. Zong. 2021. Dietary fatty acids in gut health: absorption, metabolism and function. *Animal Nutrition*. 7: 1337-1344.
- Yana, E. F., Budijastuti, W. 2022. Gambaran Histopatologi Toksisitas Hepar Tikus Jantan (*Rattus norvegicus*) Pasca Pemberian Sirup Umbi Yakon (*Smallanthus sonchifolius*). *LenteraBio: Berkala Ilmiah Biologi*, 11(1), 202-207.
- Yousef, M. I., El-Demerdash, F. M., & Al-Eisa, R. A. 2022. Hepatic oxidative damage and histopathological alterations induced by dietary toxins in poultry. *Veterinary Microbiology*, 267, 109250.
- Zaefarian, F., Abdollahi, M. R., Cowieson, A., Ravindran, V. (2019). Avian liver: The forgotten organ. *Animals*, 9(2), 63.
- Zahra, A.A., D. Sunarti dan E. Suprijatna. 2012. Pengaruh Pemberian Pakan Bebas Pilih (Free Choice Feeding) terhadap Performan Produksi Telur Burung Puyuh (*Coturnix coturnix japonica*). *Animal Agricultural Journal*. 1 (1):1-11.