

DAFTAR PUSTAKA

- Abdu, S. B. 2011. The Protective Role of Ajwa Date Againsts The Hepatotoxicity Induced by Ochratoxin A. *Egyptian Journal of Natural Toxins* 8(1):1-15.
- Ackerman, J., T. Clifford, L. R. McNaughton and D. J. Bentley. 2014. The Effect of an Acute Antioxidant Supplementation Compared with Placebo on Performance and Hormonal Response during a High Volume Resistance Training Session. *Journal of the International Society of Sports Nutrition* 11(10):1-8.
- Adibmoradi, M., B. Navidshad, J. Seifdavati, and M. Royan. 2006. Effect of Dietary Garlic meal on Histological Structure of Small Intestine in Broiler Chickens. *The Journal of Poultry Science* 43(4):378-383.
- Agustina, D., Iriyanti, N. and Mugiyono, S. 2013. Pertumbuhan dan Konsumsi Pakan pada Berbagai Jenis Itik Lokal Betina yang Pakannya di Suplementasi Probiotik. *Jurnal Ilmiah Peternakan* 1(2): 691 – 698.
- Ahmed, A., N. Bano and M. Tayyab. 2016. Phytochemical and Therapeutic Evaluation of Date (*Phoenix dactylifera*): A Review. *Journal of Pharmacy and Alternative Medicine* 9(1):11-17.
- Al-Farsi, M. A. and C. Y. Lee. 2008. Nutritional and Functional Properties of Dates: a Review. *Critical Reviews in Food Science and Nutrition* 48(10):877-887.
- Al-Mamary, M., M Al-Habori and A. S. Al-Zubairi. 2014. The In Vitro Antioxidant Activity of Different Types of Palm Dates (*Phoenix dactylifera*) Syrups. *Arabian Journal of Chemistry* 7(6):964-971.
- Assirey, E. A. R. 2015. Nutritional Composition of Fruit of 10 Date Palm (*Phoenix dactylifera* L.) Cultivars Grown in Saudi Arabia. *Journal of Taibah University for Science* 9(1):75-79.
- Ayabe, T., P. D. Satchell, C. L. Wilson, W. C. Parks M. E. Selsted and A. J. Oulette. 2000. Secretion of Microbicidal α -defensins by intestinal paneth cells in response to bacteria. *Article of Nature Immunology* 1(2):113-118.
- Badan POM RI. 2010. *Acuan Sediaan Herbal* Volume 5 Edisi 1. Direktorat Obat Asli Indonesia. Jakarta, p. 3.
- Badan Pusat Statistik. 2017. Statistik Indonesia. Badan Pusat Statistik, Jakarta.
- Balqis, U., R. Tiuria, B. P. Priosoeryanto and Darmawi. 2007. Goblet Cells Proliferation of Duodenum, Jejunum and Ileum of Laying Hens Immunized with Protein Excretory-Secretory of *Ascaridia galli*. *The Journal of Kedokteran Hewan* 2(2):70-75.
- Bancroft, J. D. and C. H. Cook. 1988. *Manual of Histological Techniques*. Churchill Livingstone, Medical Division of Longman Grup UK Limited, New York. pp. 102-103, 112.
- Bastway, M.A., Hasona, N.A., Seleman, H.A., 2008. Protective effect of extract from dates (*Phoenix dactylifera* L.) and ascorbic acid on thioacetamide-induced hepatotoxicity in rats. *Iranian Journal of Pharmaceutical Research* 7(3):193–201.

- Bell, D. D. and W. D. Weaver. 2002. *Commercial Chicken Meat and Egg Production. 5th ed.* Springer Science and business Media Inc, New York.
- Bhattacharyya A., R. Chattopadhyay, S. Mitra, and S. E. Crowe. 2014. Oxidative stress: an essential factor in the pathogenesis of gastrointestinal mucosal diseases. *Physiological Reviews* 94(2): 329–354.
- Blanco, A. and G. Blanco. 2017. *Medical biochemistry.* Academic press, p. 283.
- Buthia, Y. D and V . 2018. Ganapathy. *Physiology of the Gastrointestinal Tract 6th Edition.* Academic Press, pp. 1064-1065.
- Cahyono, E. D. , U. Atmomarsono and E. Suprijatna. 2012. Pengaruh Penggunaan Tepung Jahe (*Zingiber officinale*) dan Ransum Terhadap Saluran Pencernaan dan Hati pada Ayam Kampung Umur 12 Minggu. *Animal Agricultural Journal* 1(1):65-74.
- Chen, Y., X. Gong, G. Li, M . Lin, Y. Huo, S. Li and G. Zhao. 2016. Effects of Dietary Alfalfa Flavonoids Extraction on Growth Performance Organ Development and Blood Biochemical Indexes of Yangzhou Geese Aged from 28 to 70 Days. *Animal Nutrition* 2(4):318-322.
- Cho, I., S. Yamanishi, L. Cox, B. A. Methe, J. Zavadil, K. Li, Z. Gao, D. Mahana, K. Raju, I. Teitler, H. Li, A. V. Alekseyenko and M. J. Blaser. 2012. Antibiotics in Early Life Alter the Murine Colonic Microbiome and Adiposity. *Nature* 488(7413):621-626.
- Cox, L. M., S. Yamanishi, J. Sohn, A. V. Alekseyenko, J. M. Leung, I. Cho, S. G. Kim, H. Li, Z. Gao, D. Mahana, J. G. Z. Rodriguez, A. B. Rogers, N. Robine, P. Loke and M. J. Blaser. 2014. Altering the Intestinal Microbiota during a Critical Developmental Window has Lasting Metabolic Consequences. *Cell* 158(4):705-721.
- Deplancke, B., and H. R. Gaskins. 2001. Microbial Modulation of Innate Defense: Goblet Cells and Intestinal Mucus Layer. *The Journal of American Society for Clinical Nutrition* 73(6):1131-1411.
- Engelking, L. R. 2015. *Textbook of Veterinary Physiological Chemistry 3rd Edition.* Elsevier, Massachusetts, United State of America pp. 12-17.
- Eroschenko, V. P. 2005. *DiFiore's Atlas of Histology with Functional Correlations 11th Edition.* Lippincott Williams and Wilkins, Philadelphia p. 292.
- Escuredo, J. A. M., Y. Van der Horst, J. Carr and D. Maes. 2016. Implementing Drinking Water Feed Additive Strategies in Post-Weaning piglets, Antibiotic Reduction and Performance Impacts: Case Studies. *Porcine Health Management* 2(25):1-8.
- Fard, S. H., M. Toghyani, S. and Tabidien. 2014. Effect of Oyster Mushroom Wastes on Performance, Immune Responses and Intestinal Morphology of Broiler Chickens. *International Journal of Recycling Organic Waste in Agriculture.* 3(4):141-146.
- Friedman, M. 2007. Overview of Antibacterial, Antitoxin, Antiviral and Antifungal Activities of Tea Flavonoids and Teas. *The Journal of Molecular Nutrition Food Research* 51(1):116-134.

- Gadde, U. D., H. S. Lillehoj and E. P. Lillehoj. 2018. Antibiotic Growth Promoters Virginiamycin and Bacitracin Methylene Disalicylate alter the Chicken Intestinal Metabolome. *Scientific Reports* 8(3592):1-8.
- Gao, J., H. J. Zhang, S. H. Yu, S. G. Wu, I. Yoon, J. Quigley, Y. P. Gao and G. H. Qi. 2008. Effect of Yeast Culture in Broiler Diets on Performance and Immunomodulatory Functions. *Journal of Poultry Science* 87(7):1377-1384.
- Garcia, V., P. C. Gregori, F. Hernandez, M. D. Megias and J. Madrid. 2007. Effect of Formic Acid and Plants Extract on Growth, Nutrient Digestibility, Intestine Mucosa Morphology and Meat Yield of Broilers. *The Journal of Applied Poultry Research* 16(4):555-562.
- Gartner, L. P. and J. L. Hiatt. 2014. *Buku Ajar berwarna Histologi*. Saunders Elsevier, Singapore pp.399-420.
- Ghnimi, S., S. Umer, A. Karim and A. Kamal-Eldin. 2017. Date Fruit (*Phoenix dactylifera* L.): An Underutilized Food Seeking Industrial Valorization. *Nutrition and Food Science Journal* 6(2017):1-10.
- Gill, F., and M. Wright. 2006. *Birds of the Worlds: Recommended English Names*. Princeton University Press, USA p. 141.
- Hao, H., G. Cheng, Z. Iqbal, X. Ai, H. I. Hussain, L. Huang, M. Dai, Y. Wang, Z. Liu and Z. Yuan. 2014. Benefits and Risks of Antimicrobial Use in Food-producing Animals. *Frontiers in Microbiology* 5(288):1-11.
- Harijati, N., S. Samino, S. Indriyani and A. Soewondo. 2017. *Mikroteknik Dasar*. UB Press, Malang pp. 85-93.
- Huang, Q., X. Liu, G. Zhao, T. Hu and Y. Wang. 2018. Potential and Challenges of Tannins as an Alternative to in-feed Antibiotics for Farm Animal Production. *Animal Nutrition* 4(2):137-150.
- Iji, P.A., R.J. Hughes, M. Choet and D.R. Tivey. 2001. Intestinal Structure and Function of Broiler Chickens on Wheat-based Diets Supplemented with A Microbial Enzyme. *Asian-Australian Journal of Animal Science* 14(1): 54-60.
- Javed, Y., S. Khan, N. Chand, M. Mushtaq, A. Sultan, Rafiullah and A. J. Tanweer. 2012. Comparative Efficacy of Different Schedules of Administration of Medicinal Plants Mixed Infusion on Hematology of Broiler Chicks. *Sarhad Journal of Agriculture* 28(2):327-331.
- Kamboh, A. A. and W-Y. Zhu. 2014. Individual and Combined Effects of Genistein and Hesperidin on Immunity and Intestinal Morphometry in Lipopolysaccharide-challenged Broiler Chickens. *Poultry Science* 93(9):2175-2183.
- Kavoi, B. M., D. W. Gakuya, P. N. Mbugua and S. G. Kiama. 2016. Effect of Dietary *Moringa oleifera* Leaf Meal Supplementation on Chicken Intestinal Structure and Growth Performance. *Journal of Morphological Science* 33(4):186-192.
- Ketaren, P. P. 2010. Kebutuhan Gizi Ternak Unggas di Indonesia. *Wartazoa* 20(4):172-180.

- Khalilpourfarshbafi, M., K. Gholami, D. D. Murugan, M. Z. A. Sattar and N. A. Abdullah. 2019. Differential Effects of Dietary Flavonoids on Adipogenesis. *European Journal of Nutrition* 58(1):5-25.
- Kheiri, F. and J. Nasr. 2013. Effects of Different Dietary Amounts of Date Kernel Meal on Growth Performance and some Carcass Traits in Broilers. *Revue de Medicine Veteriner* 16(7):382-387.
- Kim, J. W. 2010. The Endocrine Regulation of Chicken Growth. *Asian Australasian Journal Animal Science* 23(12):1668-1676.
- King, D. B. and C. R. King. 1976. Thyroidal Influence on Gastrocnemius and Sartorius Muscle Growth in Young White Leghorn cockerels. *General and Comparative Endocrinology* 29(4):473-479.
- Lawrence, T. L. J. and V. R. Fowler. 2002. *Growth of Farm Animals. 2nd Edition*. CABI Publishing, United Kingdom.
- Lee, S. H., P.L. Shinde, J. Y. Choi, I. K. Kwon, J. K. Lee, S. I. Pak, W. T. Cho and B. J. Chae. 2010. Effects of Tannic Acid Supplementation on Growth Performance, Blood Hematology, Iron status and Faecal Microflora in Weanling Pigs. *Livestock Science* 131(2-3):281-286.
- Leung, K. C., N. Doyle. M. Ballesteros., M. J. Waters, and K.K. Y. Ho. 2000. Insulin Regulation of Human Hepatic Growth Hormone Receptors: Divergent Effect on Biosynthesis and Surface Translocation. *The Journal of Clinical Endocrinology and Metabolism*. 85(12):4712-4720.
- Lohmann Tierzucht. 2008. *Managemen Guide Alternative System*. Lohmann Tierzucht GmbH, Germany, p.3.
- Mackinnon, J. 1988. *Field Guide to The Bird of Java and Bali*. Gadjah Mada University Press, Yogyakarta, p. 33.
- Mallhi, T. H., M. I. Qadir, M. Ali, B. ahmad, Y. H. Khan and Atta-Ur-Rehman. 2014. Ajwa Date (*Phoenix dactylifera*): An Emerging Plant in Pharmacological Research. *Pakistan Journal of Pharmaceutical Sciences* 27(3):607-616.
- Manafi, M., M. Hedayati, N. Pirany and A. akwu. 2018. Comparison of Performance and Feed Digestibility of the Non-Antibiotic Feed Supplement (Novacid) and an Antibiotic Growth Promoter in Broiler Chickens. *Poultry Science* 98(2):904-911.
- Mansouri, A., G. Embarek, E. Kokkalou and P. Kefalas. 2005. Phenolic Profile and Antioxidant Activity of The Algerian Ripe Date Palm Fruit (*Phoenix dactylifera*). *Food Chemistry* 89(3):411-420.
- Masoudi, A., M. Chaji, M. Bojarpour and K. H. Mirzadeh. 2011. Effects of Different Levels of Date Pits on Performance, Carcass Characteristics and Blood Parameters of Broiler Chickens. *Journal of Applied Animal Research* 39(4):399-405.
- Mescher, A. L. 2017. *Junqueira's Basic Histology Text and Atlas Fourteenth Edition*. Mc Graw Hill, New York, pp. 314-318.
- Miller, H.R.P. and Y. Nawa. 1979. *Nippostrongylus brasiliensis*: Intestinal goblet cells respons in adoptively immunized rats. *Jornal Experimental Parasitology* 47(1):81-90.

- Moore, G. E., S. Harvey, H. Klandorf and G. Goldspink. 1984. Muscle Development in Thyroidectomized Chickens (*Gallus domesticus*). *General and Comparative Endocrinology* 55(2):195-199.
- National Research Council United States of America. 1994. *Nutrient Requirements of Poultry: Ninth Revised Edition*. National Academy Press, Washington DC, p. 6.
- Niazi, S., I. M. Khan, I. Pasha, S. Rasheed, S. Ahmad, and M. Shoaib. 2017. Date Palm: Composition, Health Claim and Food Applications. *International Journal of Public Health System* 2(1):9-17.
- Niewold, T. A. 2007. The non antibiotic Anti-Inflammatory Effect of Antimicrobial Growth Promoters, The Real Mode of Action? A Hypothesis. *The Journal of Poultry Science* 86(4):605-609.
- Pellegrini, M., P. Bulzomi, P. Galluzo, M. Lecis, S. Leone, V. Pallottini and M. Marino. 2014. Naringenin Modulates Skeletal Muscle Differentiation via Estrogen Receptor α and β Signal Pathway Regulation. *Genes and Nutrition* 9(5):425.
- Potter and Perry. 2006. *Buku Ajar Fisiologi Kedokteran Edisi 11*. Penerbit Buku Kedokteran EGC, Jakarta.
- Qurniawan, A., I. I. Arief and R. Afnan. 2016. Performans Produksi Ayam Pedaging pada Lingkungan Pemeliharaan dengan Ketiggian yang Berbeda di Sulawesi Selatan. *Jurnal Veteriner* 17(4):622-633.
- Rabei, S., R. M. Rizk, W. Said and S. El-Sharabasy. 2012. Morphometric Taxonomy of Date Palm Diversity Growing in Egypt. *Egypt Journal of Botany Second International Conference* 175-189.
- Rajput, N., N. Muhammad, R. Yan, X. Zhong and T. Wang. 2013. Effect of Dietary Supplementation of Curcumin on Growth Performance Intestinal Morphology and Nutrients Utilization of Broiler Chicks. *The Journal of Poultry Science* 50(1):44-52.
- Rasyaf, M., 1995. *Beternak Ayam Petelur*. Penebar Swadaya, Jakarta.
- Resnawati, H. and I. A. K. bintang. 2014. Kebutuhan Pakan Ayam Kampung pada Periode Pertumbuhan. *Lokakarya Nasional Inovasi Teknologi Pengembangan Ayam Lokal* 138-141.
- Rezaei-Sadabady, R., A. Eidi, N. Zarghami, and A. Barzegar. 2015. Intracellular ROS protection efficiency and free radical-scavenging activity of quercetin and quercetin-encapsulated liposomes. *Artificial Cells, Nanomedicine and Biotechnology* 44(1): 1-7.
- Robinson, K., S. Becker, Y. Xiao, W. Lyu, Q. Yang, H. Zhu, H. Yang, J. Zhao, and G. Zhang. 2019. Differential Impact of Subtherapeutic Antibiotics and Ionophores on Intestinal Microbiota of Broilers. *Microorganisms* 7(9):1-13.
- Saleh F. A. and Otabi M.M. 2013. Antibacterial Activity of Date Palm (*Phoenix dactylifera* L.) Fruit at Ripening Stages. *Journal of Food Processing and Technology* 4(12):1-6.
- Saryono. 2019. Date Seeds Drinking as Antidiabetic: A Systematic Review. *IOP Conference Series: Earth and Environmental Science* 255:1-8.

- Setiawan, H., M. E. Jingga and H. T. Saragih. 2018. The Effect of Chasew Leaf Extract on Small Intestine morphology and Growth Performance of Jawa Super Chicken. *Veterinary world* 11(8):1047-1054.
- Sherwood, I. 2001. *Fisiologi Manusia dari Sel ke Sistem Edisi Ke-2*. Penerbit Buku Kedokteran EGC, Jakarta, pp.133-136.
- Sherwood, L. 2013. *Fisiologi Manusia dari Sel ke Sistem Edisi 8*. Penerbit Buku Kedokteran EGC, Jakarta, pp. 652-654.
- Suparyanto, A., H. Martojo and L. H. Prasetyo. 2004. Kurva Pertumbuhan Morfologi Itik Betina Hasil Silang antra Pekin dan Mojosari Putih. *Jurnal Ilmu Ternak dan Veteriner* 9(2): 87-97.
- Suprijatna, E. and D. Natawihardja. 2005. Pertumbuhan organ reproduksi ayam ras petelur dan dampaknya terhadap performans produksi telur akibat pemberian ransum dengan taraf protein berbeda saat periode pertumbuhan. *Jurnal Ilmu Ternak dan Veteriner* 10(4): 260- 267.
- Svihus, B. 2014. Function of the Diestive System. *The Journal of Applied Poultry Research* 23(2):306–314.
- Taleb, H. S. E. Maddocks, R. K.Morris and A. D. Kanekanian. 2016. The Antibacterial Activity of Date Syrup Polyphenols against *S. aureus* and *S. coli*. *Frontiers in Microbiology* 7(198):1-9.
- Tareen, M. H., R. Wagan, F. A. Siyal, D. Babazadeh, Z. A. Bhutto, M. A. Arain and M. Saeed. 2017. Effect of Various Levels of Date Palm Kernel on Growth Performance of Broilers. *Veterinary Word* 10(2):227-232.
- Thacker, P. A. 2013. Alternatives to antibiotics as Growth Promoters for use in Swine Production:A Review. *Journal of Animal Science and Biotechnology* 4(35):1-12.
- Vayalil, P.K. 2002. Antioxidant and antimutagenic properties of aqueous extract of date fruit (*Phoenix dactylifera*). *Journal of Agricultural and Food Chemistry* 50(3):610–617.
- Viveros, A., S. Chamorro, M. Pizarro, I. Arijja, C. Centeno and A. Brenes. 2011. Effects of Dietary Polyphenol-rich Grape Product on Intestinal Microflora and Gut Morphology in Broiler Chicks. *Poultry Science* 90(3):566-578.
- Wahab, N. A. A., N. F. Zulkifli, N. A. Shamaan, N. A. Hamid and N. N. Mad Zahir. 2017. A Systematic Review on the Beneficial Effect of Date Palm (*Phoenix dactylifera*) Consumption on Energy Metabolism. *Advanced Science Letters* 23(5):4712-4716.
- Weaver, C. M., D. L. Alekel, W. E. Ward and M. J. Ronis. 2012.Flavonoid Intake and Bone Health. *Journal nutrition gerontology geriatrics* 31(3):239-253.
- Wilkinson, N., I. Dinev, W. J. Aspden, R. J. Hughes, I. Christiansen, J. Chapman, S. Gangadoo and D. Stanley. 2018. Ultrastructure of The Gastro Intestinal Tract of Healthy Japanese Quail (*Coturnix japonica*) Using Light and Scanning Electron Microscopy. *Animal Nutrition* 4(4):378-387.
- William, A., T and D.R. Storm. 1982. Bacitracin. *Pharmacology and Therapeutics* 16(2):199-210.

- Wu, G. 2010. Functional Amino Acids in Growth Reproduction and Health. *Advance in Nutrition* 1(1):31-37.
- Wu, S., T. Li, H. Niu, Y. Zhu, Y. Liu, Y. Duan, Q. Sun and X. Yang. 2018. Effects of Glucose Oxidase on Growth Performance, Gut Function, and Cecal Microbiota of Broiler Chickens. *Poultry Science* 98(2):828:841.
- Xiau-dong, L., W. Qian, Z. Ling-yan, L. Lin, Z. Li-yang, and L. Xu-gang. 2018. Effect of Dietary Supplementation with Flavonoid from *Scutellaria bacalensis* Georgi on Growth Performance, Meat Quality and Antioxidative of Broilers. *Journal of Integrative Agriculture* 17(5):1165-1170.
- Yamauchi, K. 2002. Review on Chicken Intestinal Vili Histological Alterations Related with Intestinal Function. *Journal of Poultry Science* 39(4):229-242.
- Zou, Y., H. K. Wei, Q-H. Xiang, J. Wang, Y-F. Zhou and J. Peng. 2016. Protective Effect of Quercetin on Pig Intestinal Integrity after Transport Stress is Associated with regulation Oxidative Status and Inflammation. *The Journal of Veterinary Medical Science* 78(9):1487-1494.