

DAFTAR PUSTAKA

- Abd El-Hack, M. E., Alagawany, M., Shaheen, H., Samak, D., Othman, S. I., Allam, A. A., Taha, A. E., Khafaga, A. F., Arif, M., Osman, A., el Sheikh, A. I., Elnesr, S. S., & Sitohy, M. (2020). Ginger and Its Derivatives as Promising Alternatives to Antibiotics in Poultry Feed. *Animals*, 10(3), 452. <https://doi.org/10.3390/ani10030452>
- Abreu, R., Semedo-Lemsaddek, T., Cunha, E., Tavares, L., & Oliveira, M. (2023). Antimicrobial Drug Resistance in Poultry Production: Current Status and Innovative Strategies for Bacterial Control. *Microorganisms*, 11(4), 953. <https://doi.org/10.3390/microorganisms11040953>
- Adibmoradi, M., Navidshad, B., Seifdavati, J., & Royan, M. (2006). Effect of Dietary Garlic Meal on Histological Structure of Small Intestine in Broiler Chickens. *The Journal of Poultry Science*, 43(4), 378–383. <https://doi.org/10.2141/jpsa.43.378>
- Affandi, A. (2024). Dampak Pelarangan Antibiotic Growth Promoters (AGP) Dalam Pakan Terhadap Produksi Dan Mortalitas Ayam Pedaging: Studi Kasus Di Farm Peternak Ayam Ras Pedaging Di Kabupaten Kuningan. *Jurnal Nutrisi Ternak Tropis Dan Ilmu Pakan*, 6(1), 35–48. <https://doi.org/10.24198/jnttip.v6i1.51273>
- Apalowo, O. O., Minor, R. C., Adetunji, A. O., Ekunseitan, D. A., & Fasina, Y. O. (2024). Effect of Ginger Root Extract on Intestinal Oxidative Status and Mucosal Morphometrics in Broiler Chickens. *Animals*, 14(7), 1084. <https://doi.org/10.3390/ani14071084>
- Aurora, N. E., Mahfudz, L. D., & Sarjana, T. A. (2020). Potensi Bawang Putih dan *Lactobacillus acidophilus* sebagai Sinbiotik terhadap Karakteristik Tulang Ayam Broiler. *Jurnal Sain Peternakan Indonesia*, 15(4), 375–382. <https://doi.org/10.31186/jspi.id.15.4.375-382>
- Auza, F. A., Badaruddin, R., Isnaeni, P. D., & Kimestri, A. B. (2023). Profil Organ Pencernaan, Kualitas Karkas dan Potongan Bagian Karkas Ayam Broiler yang Diberi Tepung Daun Mengkudu (*Morinda Citrifolia* Linn) Fermentasi Sebagai Imbuhan Pakan. *JURNAL GALUNG TROPIKA*, 12(1), 71–81. <https://doi.org/10.31850/jgt.v12i1.1075>
- Belote, B. L., Soares, I., Sanches, A. W. D., de Souza, C., Scott-Delaunay, R., Lahaye, L., Kogut, M. H., & Santin, E. (2023). Applying different morphometric intestinal mucosa methods and the correlation with broilers performance under *Eimeria* challenge. *Poultry Science*, 102(9), 102849. <https://doi.org/10.1016/j.psj.2023.102849>

- Candinegara, T. (2020). Challenges of using feed additives in Indonesia. *IOP Conference Series: Earth and Environmental Science*, 492(1), 012001. <https://doi.org/10.1088/1755-1315/492/1/012001>
- Chen, J., Wang, F., Yin, Y., & Ma, X. (2021). The nutritional applications of garlic (*Allium sativum*) as natural feed additives in animals. *PeerJ*, 9, e11934. <https://doi.org/10.7717/peerj.11934>
- Diehl, J. J. E., van Eerden, E., Duijster, M., & Kwakkel, R. P. (2024). Supply organ development of young broilers in response to increased carbohydrates and amino acids in the starter period. *Poultry Science*, 103(10), 104092. <https://doi.org/10.1016/j.psj.2024.104092>
- Doloking, H., Wahyuddin, M., & Nurwana. (2024). Studi Pustaka Uji Sitotoksik Rimpang Lempuyang Gajah (*Zingiber zerumbet* (L) Smith). *Jurnal Farmasi UIN Alauddin Makassar*, 10(1), 10–19. <https://doi.org/10.24252/jfuinam.v10i1.51053>
- Dono, N. D. (2014). TURMERIC (*Curcuma longa* Linn.) SUPPLEMENTATION AS AN ALTERNATIVE TO ANTIBIOTICS IN POULTRY DIETS. *Indonesian Bulletin of Animal and Veterinary Sciences*, 23(1). <https://doi.org/10.14334/wartazoa.v23i1.958>
- Dwijayanti, B., Rahmi, E., Balqis, U., Fitriani, F., Masyitha, D., Aliza, D., & Akmal, M. (2021). Histologi, Histomorfometri, dan Histokimia Usus Ayam Buras (*Gallus gallus domesticus*) Selama Periode Sebelum dan Setelah Menetas. *Jurnal Agripet*, 21(2), 128–140. <https://doi.org/10.17969/agripet.v21i2.16012>
- Elhassan, Mortada & Ali, A & Eissa, Lemiaa & Taha, A. (2022). Histology of the small intestine of broiler chicks. *Univ. Bahri J. Vet. Sci.* 1(2): 55-61.
- Fitriana, I. (2020). ANTIBIOTICS COMBINATION EFFECTS OF TYLOSIN AND ENROFLOXACIN ON LIVER AND RENAL FUNCTIONS OF BROILER. *Indonesian Journal of Veterinary Science*, 1(1). <https://doi.org/10.22146/ijvs.v1i1.44353>
- Giannenas, I., Bonos, E., Skoufos, I., Tzora, A., Stylianaki, I., Lazari, D., Tsinas, A., Christaki, E., & Florou-Paneri, P. (2018). Effect of herbal feed additives on performance parameters, intestinal microbiota, intestinal morphology and meat lipid oxidation of broiler chickens. *British Poultry Science*, 59(5), 545–553. <https://doi.org/10.1080/00071668.2018.1483577>
- Hamid, H., Zhao, L. H., Ma, G. Y., Li, W. X., Shi, H. Q., Zhang, J. Y., Ji, C., & Ma, Q. G. (2019). Evaluation of the overall impact of antibiotics growth promoters on broiler health and productivity during the medication and withdrawal period. *Poultry Science*, 98(9), 3685–3694. <https://doi.org/10.3382/ps/pey598>

- Hashish, E. A., & Elgaml, S. A. (2016). Hepatoprotective and Nephroprotective Effect of Curcumin Against Copper Toxicity in Rats. *Indian Journal of Clinical Biochemistry*, 31(3), 270–277. <https://doi.org/10.1007/s12291-015-0527-8>
- Hassan, Md. R., Afsana, A. S., Hasan, Md. S., Rabbani, Md. A. G., Sultana, S., Faruque, S., & Sultana, N. (2025). Effects of Antibiotic Growth Promoter Free Production on The performance, Blood Properties, and Humoral Immune Response of Broiler Chicken. *Egyptian Journal of Veterinary Sciences*, 0(0), 1–13. <https://doi.org/10.21608/ejvs.2025.334030.2484>
- I Wayan Mudiana, Sudisma, I. gusti N., Ni Luh Eka Setiasih, & I Wayan Sudira. (2023). Gambaran Histologi Hati Tikus Putih (*Rattus norvegicus*) yang Diberikan Ekstrak Bunga Kecubung (*Datura metel* L.) Sebagai Anestesi. *Acta VETERINARIA Indonesiana*, 11(2), 102–108. <https://doi.org/10.29244/avi.11.2.102-108>
- Jutzi, Samuel., Hughes, P., & Heritage, J. (2007). *Assessing quality and safety of animal feeds*. Daya Publishing House.
- Koenig, H. E. ., & Liebich, H.-Georg. (2017). *Avian Anatomy : Textbook and Colour Atlas*. 5m Publishing.
- Latipudin, D., Kumalasari, C., & Adriani, L. (2024). The Effect of Dried Probiotics on Broiler Performance and Kidney Function. *Advances in Animal and Veterinary Sciences*, 12(4). <https://doi.org/10.17582/journal.aavs/2024/12.4.596.602>
- Murwanti, R., Pratiwi, R. D., & Gani, A. P. (2023). Association of Zingiber Aromaticum Vaal. With Zerumbone and Its Biological Activity : A Literature Review. *Jurnal Profesi Medika : Jurnal Kedokteran Dan Kesehatan*, 17(1). <https://doi.org/10.33533/jpm.v17i1.5816>
- Natsir, M. H. (2016). PENGGUNAAN KOMBINASI KUNYIT (*Curcuma domestica*) DAN JAHE (*Zingiber officinale*) BENTUK ENKAPSULASI DAN TANPA ENKAPSULASI TERHADAP KARAKTERISTIK USUS DAN MIKROFLORA USUS AYAM PEDAGING. *Buletin Peternakan*, 40(1), 1. <https://doi.org/10.21059/buletinpeternak.v40i1.8890>
- Piran, V. B., Novian, D. R., & Ndaong, N. A. (2024). Uji Fungsi Hati Dan Performa Tumbuh Ayam Broiler Yang Diberikan Pakan Kombinasi Tepung Kelor (*Moringa Oleifera* Lam.) dan Jeruk Nipis (*Citrus aurantifolia*). *Jurnal Veteriner Nusantara*, 7(1), 28–40. <https://doi.org/10.35508/jvn.v7i1.14066>
- Prakasita, V. C., Asmara, W., Widyarini, S., & Wahyuni, A. E. T. H. (2019). Combinations of herbs and probiotics as an alternative growth promoter: An in

- vitro study. *Veterinary World*, 12(4), 614–620.
<https://doi.org/10.14202/vetworld.2019.614-620>.
- Setyawati, Luh Gede and Sudira, I. Wayan and Berata, I. Ketut and Merdana, I. Made. (2020). Kidney histopathology in kampong chicken treat with leaf ashitaba herbal and Newcastle disease vaccine. *Indonesia Medicus Veterinus*, 2477-6637 2301-7848, 9, (3). doi:10.24843/imv.2020.v09.i03.p15.
- Sihombing, D. E., & Fajri, A. I. (2024). PRODUKTIVITAS DAN KESEHATAN AYAM BROILER PASCA LARANGAN ANTI GROWTH PROMOTERS DI INDONESIA. *VITEK: Bidang Kedokteran Hewan*, 14(2), 112–123.
<https://doi.org/10.30742/jv.v14i2.307>
- Siswanto, D., Prasetyo, A. F., & Kusuma, S. B. (2021). Efektivitas Fitobiotik Bawang Putih Terfermentasi terhadap Produktivitas Ayam Broiler. *Jurnal Peternakan Indonesia (Indonesian Journal of Animal Science)*, 23(1), 74–81.
<https://doi.org/10.25077/jpi.23.1.74-81.2021>
- Tang, L.-P., Liu, Y.-L., Zhang, J.-X., Ding, K.-N., Lu, M.-H., & He, Y.-M. (2022). Heat stress in broilers of liver injury effects of heat stress on oxidative stress and autophagy in liver of broilers. *Poultry Science*, 101(10), 102085.
<https://doi.org/10.1016/j.psj.2022.102085>
- Tanti, A., Retnani, Y., & Soesanto, I. (2023). Effect Dietary Garlic Processed on Performance and Intestinal of Broilers. *Jurnal Ilmu Nutrisi Dan Teknologi Pakan*, 21(1), 63–68. <https://doi.org/10.29244/jintp.21.1.63-68>
- Tarek, K., Amine, B., & Eddine, R. D. (2018). Morpho-Histological Comparisons of Liver between the Broiler Chickens and Wild Boar in Algeria. *Advances in Animal and Veterinary Sciences*, 7(1).
<https://doi.org/10.17582/journal.aavs/2019/7.1.24.29>
- Untari, T., Herawati, O., Anggita, M., Asmara, W., Endang Tri Hastuti Wahyuni, A., & Haryadi Wibowo, M. (2021). The Effect of Antibiotic Growth Promoters (AGP) on Antibiotic Resistance and the Digestive System of Broiler Chicken in Sleman, Yogyakarta. *BIO Web of Conferences*, 33, 04005.
<https://doi.org/10.1051/bioconf/20213304005>
- Xing, T., Pan, X., Zhang, L., & Gao, F. (2021). Hepatic Oxidative Stress, Apoptosis, and Inflammation in Broiler Chickens With Wooden Breast Myopathy. *Frontiers in Physiology*, 12. <https://doi.org/10.3389/fphys.2021.659777>
- Xu, Z., Zhu, W., Xu, D., Amevor, F. K., Wu, Y., Ma, D., Cao, X., Wei, S., Shu, G., & Zhao, X. (2024). Supplementation of curcumin promotes the intestinal structure, immune barrier function and cecal microbiota composition of laying

hens in early laying period. *Poultry Science*, 103(12), 104355.
<https://doi.org/10.1016/j.psj.2024.104355>.

Zaraswati Dwyana, Rusli dan Mahdalena Sy. Pakaya. (2017). Aktivitas Antimikroba Ekstrak Dietil Eter Rimpang Lempuyang Wangi (*Zingiber aromaticum* Vahl.) Terhadap Bakteri Patogen Secara Klt-Bioautografi. *Jurnal Ilmu Alam dan Lingkungan*, 8(15): 62 – 66.