

DAFTAR PUSTAKA

- 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). <https://doi.org/doi.org/10.3390/microorganisms11040953>
- Affandi, A., Nahrowi, & Mutia, R. (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/https://doi.org/10.24198/jnttip.v6i1.51273>
- Akkaya, I., Oylumlu, E., Oze, I., Uzel, G., Durmus, L., & Ciraci, C. (2021). NLRC4 Inflammasome-Mediated Regulation of Eosinophilic Functions. *Immune Network*, 21(6). <https://doi.org/https://doi.org/10.4110/IN.2021.21.E42>
- Aksu, U., Yavuz-Aksu, B., & Goswami, N. (2024). Microcirculation: Current Perspective in Diagnostics, Imaging, and Clinical Applications. Dalam *Journal of Clinical Medicine* (Vol. 13, Nomor 22). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/https://doi.org/10.3390/jcm13226762>
- Al-Khalaifah, H., Al-Nasser, A., Al-Surrayai, T., Sultan, H., Al-Attal, D., Al-Kandari, R., Al-Saleem, H., Al-Holi, A., & Dashti, F. (2022). Effect of Ginger Powder on Production Performance, Antioxidant Status, Hematological Parameters, Digestibility, and Plasma Cholesterol Content in Broiler Chickens. *Animals*, 12(7). <https://doi.org/https://doi.org/10.3390/ani12070901>
- Badan Standarisasi Nasional. (2015). *Pakan Ayam Ras Pedaging (Broiler) - Bagian 1: Sebelum Masa Awal (Pre Starter)*. www.bsn.go.id
- Barata, R., Saavedra, M. J., & Almeida, G. (2024). A Decade of Antimicrobial Resistance in Human and Animal *Campylobacter* spp. Isolates. Dalam *Antibiotics* (Vol. 13, Nomor 9). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/https://doi.org/10.3390/antibiotics13090904>
- Ben, Y., Fu, C., Hu, M., Liu, L., Wong, M. H., & Zheng, C. (2019). Human health risk assessment of antibiotic resistance associated with antibiotic residues in the environment: A review. *Environmental Research*, 169, 483–493. <https://doi.org/https://doi.org/10.1016/j.envres.2018.11.040>
- Bhattacharjee, A. (2023). Avian Erythrocytes and Agranulocytes - a Review. *Science Reviews. Biology*, 2(2), 21–29. <https://doi.org/https://doi.org/10.57098/scirevs.biology.2.2.2>
- Brooks, M. B., Harr, K. E., Seelig, D., Wardrop, K. J., & Weiss, D. J. (2022). *Schalm's Veterinary Hematology Seventh Edition*. John Wiley & Sons, Inc.
- 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/https://doi.org/10.7717/peerj.11934>

- Djunaidi, I. H., Khaeruddin, Pamungkas, A., Purnamasari, L., Rizkuna, A., Imanullah, A. S., Fanani, A. F., Fati, N., Nurhidayah, A. F., Yusuf, R., Singgili, H., Sulisty, W., & Aisyah, R. (2025). *Manajemen Ternak Unggas* (R. V. Nazara, Ed.). Azzia Karya Bersama.
- Ermawati, R., Sirat, M. M. P., Hartono, M., Fathul, F., & Farda, F. T. (2023). Efektivitas Suplementasi Tepung *Azolla microphylla* dalam Ransum Terhadap Bobot Badan, Total Protein Plasma Darah dan Total Cemarkan Mikroba Karkas Broiler. *Jurnal Ilmiah Peternakan Terpadu*, 11(1), 65–81. <https://doi.org/https://dx.doi.org/10.23960/jipt.v11i1.p65-81>
- Ferdous, F., & Scott, T. (2023). The Immunological Capacity of Thrombocytes. *International Journal of Molecular Sciences*, 24(16). <https://doi.org/10.3390/ijms241612950>
- Fitriah, U. A., Widodo, N., Amam, & Harsita, P. A. (2024). Perbedaan Performa Pertumbuhan Ayam Broiler Fase Starter Berdasarkan Penambahan Kombinasi Jenis Antikoksi Yang Berbeda. *Jurnal Peternakan Lingkungan Tropis*, 7(1), 36–44. <https://doi.org/http://dx.doi.org/10.30872/jpltrop.v7i1.15829>
- Fransisca, A., Santosa, P. E., Erwanto, E., & Hartono, M. (2024). Gambaran Total Sel Darah Merah, Hemoglobin, dan Packed Cell Volume Ayam Kampung Betina dengan Pemberian Jintan Hitam (*Nigella sativa*). *Jurnal Riset dan Inovasi Peternakan (Journal of Research and Innovation of Animals)*, 8(1), 136–141. <https://doi.org/10.23960/jrip.2024.8.1.136-141>
- Harahap, M. A. Y., Natsir, M. H., Damayanti, C. A., Wibowo, S., Adli, D. N., & Sjoefjan, O. (2023). Pengaruh Pemberian Kompleks Kalsium dan Ampas Jamu Dalam Pakan Terhadap Jumlah Leukosit dan Diferensial Leukosit Pada Itik Petelur Mojosari (*Anas javanica*) Umur 32 Minggu. *Jurnal Nutrisi Ternak Tropis*, 6(1), 26–35. <https://doi.org/10.21776/ub.jnt.2023.006.01.4>
- Harahap, M. S., Insulistyowati, A., & Wigati, S. (2020). Nilai Hemogram Ayam Broiler Yang Diberikan Ramuan Herbal Kunyit (*Curcuma Domestica* Val) Dan Jahe (*Zingiber Officinale*) Berprobiotik Dalam Air Minum Terhadap Hemogram Ayam Broiler. In *Prosiding Seminar Teknologi dan Agribisnis Peternakan (STAP)*, 8, 378–380.
- Harrison, G. J., & Lightfoot, T. L. (2005). *Clinical Avian Medicine Volume II*. Spix Publishing, Inc.
- Hartati, S., Widiyono, I., Raharjo, S., Purnamaningsih, H., Nururrozi, A., & Fitriana, I. (2021). Pengaruh Ekstrak Kunyit (*Curcuma domestica*) dan Meniran (*Phyllanthus niruri*) Terhadap Profil Darah Ayam. *Jurnal Ilmu Peternakan dan Veteriner Tropis (Journal of Tropical Animal and Veterinary Science)*, 11(1), 6. <https://doi.org/10.46549/jipvet.v11i1.96>
- Herwintono, H., Hidayati, A., & Khotimah, K. (2023). Hematological Status of Broilers with Addition Pegagan (*Centella asiatica* (L.) Urban) on Feed in Maintenance Without Vaccination. *Scholars Journal of Agriculture and*

Veterinary Sciences, 11(07), 72–78.
<https://doi.org/10.36347/sjavs.2023.v10i07.002>

- Hidayah, N., Yunani, R., & Widhowati, D. (2021). Potency of Curcumin Derived from Ethanol Extract of Turmeric (*Curcuma longa* L.) as the Immunostimulator in Broiler. *Advances in Animal and Veterinary Sciences*, 9(6), 787–791. <https://doi.org/10.17582/journal.aavs/2021/9.6.787.791>
- Ismail, I., Nohong, B., Semaun, R., & Rasbawati. (2021). Berat Dan Persentase Karkas Broiler Dengan Penambahan Tepung Daun Katuk (*Sauropus Androgynus*) Dalam Ramuan Herbal. *Agromedia*, 39(1), 24–30. <https://doi.org/https://doi.org/10.47728/ag.v39i1.310>
- Izudin, F., Dwi Yunianto, V., Sumarsih, S., & Krismiyanoto, L. (2025). Penambahan Enkapulasi Ekstrak Buah Parijoto pada Ransum Terhadap Konsumsi Protein, Heterofil, dan Limfosit Ayam Broiler dengan Kepadatan Tinggi. *Seminar Prosiding Nasional Integrasi Pertanian dan Peternakan*, 3(1), 150–156. <https://doi.org/https://semnasfpp.uin-suska.ac.id/index.php/snipp>
- Kafi, A., Uddin, M. N., Uddin, M. J., Khan, M. M. H., & Haque, M. E. (2017). Effect of dietary supplementation of turmeric (*Curcuma Longa*), ginger (*Zingiber Officinale*) and their combination as feed additives on feed intake, growth performance and economics of broiler. *International Journal of Poultry Science*, 16(7), 257–265. <https://doi.org/10.3923/ijps.2017.257.265>
- Kairalla, M. A., Alshelmani, M. I., & Aburas, A. A. (2022). Effect of diet supplemented with graded levels of garlic (*Allium sativum* L.) powder on growth performance, carcass characteristics, blood hematology, and biochemistry of broilers. *Open Veterinary Journal*, 12(5), 595–601. <https://doi.org/10.5455/OVJ.2022.v12.i5.1>
- Kajal, & Pathania, A. R. (2021). Chemistry behind Serum Albumin: A Review. *E3S Web of Conferences*, 309(01086). <https://doi.org/10.1051/e3sconf/202130>
- Laxmi, A. N. (2019). The Chicken Heterophile - A Short Review. *Open Access Journal of Veterinary Science & Research*, 4(1), 1–5. <https://doi.org/10.23880/oajvsr-16000168>
- Mastoi, A. N., Abbasi, B. H. A., Nawaz, Z., Rashid, N., Bilal, R. M., Ayub, S., Majeed, A., Noor, A., Iqbal, M., ud Din, S., & Fareed, G. (2023). Effects of Dietary Supplementation of Garlic (*Allium sativum* L.) on Production and Haematological Parameters and Serum Cholesterol Level in the Broilers. *Pak Euro Journal of Medical and Life Sciences*, 6(2), 47–54. <https://doi.org/10.31580/pjmls.v6i2.2>
- Muninggar, R. M., & Hakim, M. (2025). Analysis of Factors Affecting Consumption of Culled Layer Chicken Meat in Selupu Rejang, Rejang Lebong Regency, Bengkulu Province. *Jurnal Sain Peternakan Indonesia*, 20(4), 232–238. <https://doi.org/10.31186/jspi.id.20.4.232-239>
- Mustika, A. A., Andriyanto, A., Mohamad, K., Sutardi, L. N., Khonsa, K., Ananta, A. W., & Leluala, S. (2023). Performa dan Profil Organ Ayam Pedaging

- dengan Pemberian Jamu Kombinasi Jahe, Temulawak, Lempuyang dan Madu. *Jurnal Veteriner*, 23(4), 548–557. <https://doi.org/10.19087/jveteriner.2022.23.4.548>
- Nono, D. R. H., Datta, F. U., & Deta, H. U. (2025). Pengaruh Monensin atau Amoksisilin dalam Pakan terhadap Profil Leukosit pada Ayam Kampung Super. *Jurnal Veteriner Nusantara*, 8(1), 69–76. <https://doi.org/http://ejurnal.undana.ac.id/jvn>
- Nuningtyas, Y. F., Natsir, M. H., Hermanto, F. E., Marwi, F., & Fionita, R. A. (2024). Pengaruh Pemberian Feed Additive Ekstrak Nano Cair Jahe, Kunyit, Daun Jati dan Probiotik Terhadap Persentase Karkas dan Kualitas Fisik Daging Ayam Broiler. *TERNAK TROPIKA Journal of Tropical Animal Production*, 25(1), 84–97. <https://doi.org/10.21776/ub.jtapro.2024.025.01.10>
- Nuryati. (2019). Analisis Performans Ayam Broiler pada Kandang Tertutup dan Kandang Terbuka. *Jurnal Peternakan Nusantara*, 5(2), 77–85.
- Pakage, S., Hartono, B., Fanani, Z., Nugroho, B. A., Iyai, D. A., Palulungan, J. A., Ollong, A. R., & Nurhayati, D. (2020). Pengukuran Performa Produksi Ayam Pedaging pada Closed House System dan Open House System di Kabupaten Malang Jawa Timur Indonesia. *Jurnal Sain Peternakan Indonesia*, 15(4), 383–389. <https://doi.org/10.31186/jspi.id.15.4.383-389>
- Putrawan, R. J., Sudjarwo, E., & Natsir, M. H. (2025). Effect of the Combination of Turmeric Powder (*Curcuma domestica* Val.) and Multi-enzyme Supplementation in Enhancing Broiler Production Performance. *Asian Journal of Research in Animal and Veterinary Sciences*, 8(3), 428–439. <https://doi.org/10.9734/ajrav/2025/v8i3370>
- Raharjo, D., Pengelolaan Agribisnis, M., Bisnis Pertanian PPNP, J., Pengelolaan Agribisnis, D., & Author, C. (2024). Pengaruh Pemberian Jamu Soko Alam Terhadap Performa Ayam Broiler. *Stock Peternakan*, 6(1). <https://doi.org/https://doi.org/10.36355/sptr.v6i1.1254>
- Rahman, M. R. T., Fliss, I., & Biron, E. (2022). Insights in the Development and Uses of Alternatives to Antibiotic Growth Promoters in Poultry and Swine Production. *Antibiotics*, 11(6). <https://doi.org/https://doi.org/10.3390/antibiotics11060766>
- Rukmana, H. R., & Yudirachaman, H. H. (2016). *Farm Bigbook: Budi Daya Dan Pascapanen Tanaman Obat Unggulan*. Penerbit Andi.
- Safitri, E., & Plumerastuti, H. (2023). *AYAM BROILER - Aspek Fisiologi Reproduksi & Patologinya* (A. Abadi, Ed.). Airlangga University Press.
- Salasia, S. I. O., & Hariono, B. (2016). *Patologi Klinik Veteriner* (Kasyadi, Ed.). Samudra Biru.
- Sanjaya, E. (2025). Analisis Pengaruh Pemberian Pakan Konsentrat Terhadap Efisiensi Pertumbuhan Ayam Broiler. *ARMADA: Jurnal Penelitian Multidisiplin*, 3(1), 7. <https://doi.org/10.55681/armada.v2i6.1601>

- Seplin, B. P., Anwar, P., Jiyanto, D., Program, M., Peternakan, S., & Pertanian, F. (2022). Efektivitas Suplementasi Tepung Kunyit (*Curcuma Domestica*) Terhadap Profil Sel Darah Putih Broiler. *Journal of Animal Center (JAC)*, 4(2), 17–26. <https://doi.org/https://doi.org/10.36378/jac.v4i2.2703>
- Shaffitri, L. R., Perdana, R. P., Ilham, N., & Suryana, E. A. (2024). Implementasi kebijakan usaha pakan untuk mendukung pengembangan industri perunggasan. *Analisis Kebijakan Pertanian*, 22(1). <https://doi.org/10.21082/akp.v22n1.2024.1-15>
- Shewita, R. S., & Taha, A. E. (2018). Influence of dietary supplementation of ginger powder at different levels on growth performance, haematological profiles, slaughter traits and gut morphometry of broiler chickens. *South African Journal of Animal Science*, 48(6), 997–1008. <https://doi.org/10.4314/sajas.v48i6.1>
- 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), 245–255. <https://doi.org/10.30742/jv.v14i2.307>
- Siregar, D. J. S. (2017). Pemanfaatan Tepung Bawang Putih (*Allium sativum* L) Sebagai Feed Additif pada Pakan Terhadap Pertumbuhan Ayam Broiler. *Jurnal Ilmiah Abdi Ilmu*, 10(2), 1824–1828. <https://doi.org/https://jurnal.pancabudi.ac.id/index.php/abdiilmu/article/view/40>
- Teymouri, P., Jafari Khorshidi, K., Rezaeipour, V., & Assadi Soumeh, E. (2021). Efficacy of natural alternatives to antibiotic on the growth performance, gut microbial population, intestinal morphology, and serum biochemical metabolites of broiler chickens. *Italian Journal of Animal Science*, 20(1), 1801–1809. <https://doi.org/10.1080/1828051X.2021.1954558>
- Usu, M. (2025). Pemanfaatan Tanaman Herbal Lokal Sebagai Alternatif Antibiotik Dalam Pakan Ternak. *JIPENA: Jurnal Ilmu Peternakan Indonesia*, 2(2), 19–23. <https://doi.org/https://doi.org/10.70134/jipena.v2i2.537>
- Weiss, D. J., & Wardrop, K. J. (2010). *Schalm's Veterinary Hematology Sixth Edition*. Wiley-Blackwell.
- Widawati, T. A., Aquilla, A. Q., & Hamiyanti, A. A. (2026). Pengaruh Perbedaan Tingkat Lantai Kandang Terbuka Terhadap Bobot Panen, Bobot Karkas, dan Potongan Karkas Ayam Pedaging. *Prosiding Seminar Nasional Integrasi Pertanian dan Peternakan*, (1), 532–538. <https://doi.org/https://seminasfpp.uin-suska.ac.id/index.php/snipp/article/view/203>
- Yusuf, R., Gaol, S. E. L., Suriansyah, Pujiastuti, A., Erita, Nur'aini, Erni, N., Rizkuna, A., Saputri, K. W., Azis, A. R., & Noviandi, I. (2025). *Pengantar Ilmu Peternakan* (N. Asrindayu & H. Ishak, Ed.). Kamiya Jaya Aquatic.