

DAFTAR PUSTAKA

- Abd El-Ghany, W. A. (2025). The Different Influences of a Phytobiotic, Green Tea (*Camellia sinensis* L.) on the Poultry Health and Production. *Journal of Applied Veterinary Sciences*, 10(1), 32–45. <https://doi.org/10.21608/ja>
- Abdel-Latif, M. A., El-Hamid, H. S. A., Emam, M., Noreldin, A. E., Helmy, Y. A., El-Far, A. H., & Elbestawy, A. R. (2024). Dietary Lysozyme and Avilamycin Modulate Gut Health, Immunity, and Growth Rate in Broilers. *BMC Veterinary Research*, 20(1). <https://doi.org/10.1186/s12917-023-03871-2>
- Afifah, H. S., Apriliana, E., Setiawan, G., & Nisa Berawi, K. (2024). Aktivitas Antibakteri Epigallocatechin gallate (EGCG) pada Bakteri Gram Positif dan Bakteri Gram Negatif. *Medula*, 14, 2330–2335.
- Agma, A. R. (2025). Peran Probiotik dalam Meningkatkan Kesehatan Usus dan Produktivitas Ayam Petelur. In *Jurnal Ilmu Peternakan dan Perikanan* (Vol. 01, Number 01). <http://ojs.pustakabangsaindonesia.com/index.php/jipp>
- Alagbe, E. O., Sung, J. Y., Pasternak, J. A., & Adeola, O. (2026). Postnatal Small Intestinal Morphological Development in Cobb 500 Broiler Chickens. *Poultry Science*, 106412. <https://doi.org/10.1016/j.psj.2026.106412>
- Aldiyanti, A., Qamara, C., Nur Arifin, D., & Rizkuna, A. (2025). Pengaruh Konsumsi Pakan dan FCR terhadap Produktivitas Ayam Pedaging dalam Sistem Rumah Semi Tertutup di Kota Samarinda The Effect of Feed Consumption and FCR on Broiler Productivity in Semi-Closed House Systems in Samarinda City. *Jurnal Ekonomi Dan Manajemen*, 22(2), 237–243.
- Aleli, A. T. (2024). A Review on Feed Additives in Poultry. *Journal of Animal Sciences and Livestock Production*, 08(03). <https://doi.org/10.36648/2577-0594.8.3.21>
- Amam, A. (2022). Sebuah Evaluasi Keberhasilan Usaha Ternak Ayam Broiler Sistem Kemitraan Inti Plasma Amam. *Jurnal Pangan*, 31(3), 259–270.
- Ananda, S., Hifizah, A., Kiramang, K., Jamili, M. A., Mutmainna, A., & Rismawati. (2023). Profil Organ Dalam Broiler dengan Penambahan Probiotik Effective Microorganism-4 (EM-4) dalam Air Minum. *Journal of Livestock and Animal Health*, 6(1), 21–27. <https://doi.org/10.32530/jlah.v6i1.8>
- Anggayanti, N. A., Ramadhany, E. P., & Putu Diah Suryani, I. G. A. (2025). Perbedaan Efek Pemberian Gel Kombinasi Ekstrak *Camellia sinensis* dan Kitosan terhadap Jumlah Sel Neutrofil Pasca Ekstraksi Gigi Tikus Wistar: Eksperimental Laboratoris. *Jurnal Kedokteran Gigi Universitas Padjadjaran*, 37(1), 65–75. <https://doi.org/10.24198/jkg.v37i1.59224>
- Anjani, L., Yunianto, V. D., Suthama, N., & Krismiyo, L. (2025). Intestinal Morphology, Protein Digestibility, and Broiler Performance Fed Encapsulated Dahlia Tuber Extract and *Bacillus subtilis*. *Tropical Animal Science Journal*, 48(4), 338–346. <https://doi.org/10.5398/tasj.2025.48.4.338>
- Ashari, A., Kiramang, K., Ananda, S., Thaha, A. H., & Lestari, A. (2025). Pengaruh Penambahan Tepung Daun Pepaya (*Carica papaya* L.) dalam

- Pakan terhadap Histomorfometri Usus Halus Ayam Buras. *Tarjih Tropical Livestock Journal*, 5(1), 1–7. <https://doi.org/10.47030/trolija.v5i1.908>
- Astuti, F. D., Sugiharto, S., Yudiarti, T., Widiastuti, E., Wahyuni, H. I., & Ayaşan, T. (2022). Growth Performance, Blood Variables, Intestinal Bacterial Content, and Morphological Measurements of Broilers Supplemented with *Lactobacillus casei*-fermented Mixture of Red Rice and Aromatic Ginger. *Veterinary World*, 15(4), 818–826. <https://doi.org/10.14202/vetworld.2022.818-826>
- Ayalew, H., Zhang, H., Wang, J., Wu, S., Qiu, K., Qi, G., Tekeste, A., Wassie, T., & Chanie, D. (2022). Potential Feed Additives as Antibiotic Alternatives in Broiler Production. In *Frontiers in Veterinary Science* (Vol. 9). Frontiers Media S.A. <https://doi.org/10.3389/fvets.2022.916473>
- 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). <https://doi.org/10.1016/j.psj.2023.102849>
- Bortoluzzi, C., Watson, M., Iuspa, M. A., Lumpkins, B., Mathis, G., Jones, M., & Hofacre, C. (2025). Precision Biotics Enhance Growth Performance in Broiler Chickens by Selectively Modifying Their Intestinal Microbiome to Better Respond to Enteric Challenges. *Poultry Science*, 104(9). <https://doi.org/10.1016/j.psj.2025.105454>
- Capasso, L., De Masi, L., Sirignano, C., Maresca, V., Basile, A., Nebbioso, A., Rigano, D., & Bontempo, P. (2025). Epigallocatechin gallate (EGCG): Pharmacological Properties, Biological Activities and Therapeutic Potential. In *Molecules* (Vol. 30, Number 3). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/molecules30030654>
- Chen, isaac, & Cassaro, S. (2023). *Physiology, Bile Acids*. StatPearls Publishing.
- Cho, S., Vasquez, R., Song, J. H., Son, K. Y., Kim, H. Y., Park, S. N., Chae, J. P., Moon, J. O., Kang, D. K., & Kim, I. H. (2025). Green Tea Extract Complex as a Phytogenic Supplement to Reduce Bile Salt Hydrolase Activity and Enhance Growth Performance in Weaning Pigs. *Journal of Animal Science*, 103. <https://doi.org/10.1093/jas/skaf242>
- Choi, J. (2025). Challenges in Poultry Production Systems and Nutritional Interventions. In *Animals* (Vol. 15, Number 4). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/ani15040530>
- Coello, K. D., Castellanos1, L. A., Paz2, P. E., Valdivi3, M., & Martínez1, Y. (2023). Growth Promoting Effect of a Processed Vegetable Ingredient in Pullets. In *Cuban Journal of Agricultural Science* (Vol. 57).
- Dameanti, F. N. A. E. P., Dacosta, A. O., Fatmawati, M., Adrenalin, S., Permata, F. S., Siswanto, H. P., & Ariyanti, T. (2023). A Comparative Study on Histopathological Features of Duodenum, Jejunum, Ileum from Broiler Chicken with Avian Pathogenic *Escherichia coli* Infection. *Journal of the Indonesian Tropical Animal Agriculture*, 48(3), 194–207.
- Datta, F. U. (2023). *Dasar Ilmu Nutrisi dan Pakan Hewan*. Deepublish Digital.

- Farhan, M. (2022). Green Tea Catechins: Nature's Way of Preventing and Treating Cancer. In *International Journal of Molecular Sciences* (Vol. 23, Number 18). MDPI. <https://doi.org/10.3390/ijms231810713>
- Gao, L., Liu, C., Wu, J., Cui, Y., Zhang, M., Bi, C., Shan, A., & Dou, X. (2025). EGCG Improve Meat Quality, Restore Lipid Metabolism Disorder and Regulate Intestinal Flora in High-fat Fed Broilers. *Poultry Science*, 104(3). <https://doi.org/10.1016/j.psj.2025.104875>
- Gawel, A., Bobrek, K., & Madej, J. P. (2025). Early Posthatch Feeding Influences Small Intestine Development in Broiler Chickens. *Poultry Science*, 104(11). <https://doi.org/10.1016/j.psj.2025.105861>
- Hendriyanto, wawan. (2019). *Sukses Beternak dan Berbisnis Ayam Pedaging (Broiler)* (A. Gunawan, Ed.). Laksana.
- Khamas, W., & Rullant, J. (2024). *Anatomy and Histology of the Domestic Chicken*. John Wiley & Sons.
- Kim, J. E., Tun, H. M., Bennett, D. C., Leung, F. C., & Cheng, K. M. (2023). Microbial Diversity and Metabolic Function in Duodenum, Jejunum and Ileum of Emu (*Dromaius novaehollandiae*). *Scientific Reports*, 13(1). <https://doi.org/10.1038/s41598-023-31684-8>
- Komoditas Peternakan, O. (2024). *Outlook Daging Ayam Ras Pedaging 2024*. Pusat Data dan Sistem Informasi Pertanian Sekretariat Jenderal Kementerian Pertanian Tahun 2024.
- Liebich, H.-G. (2019). *Veterinary Histology of Domestic Mammals and Birds* (5th ed.). 5m Publishing.
- Listyasari, N., Soeharsono, S., & Purnama, M. T. E. (2022). Perbandingan Susunan Jantan dan Betina Memengaruhi Performa Ayam Pedaging Galur Lohman Broder Mb202. *Jurnal Veteriner*, 23(2), 239–245. <https://doi.org/10.19087/jveteriner.2022.23.2.239>
- Liu, S., Xiao, G., Wang, Q., Zhang, Q., Tian, J., Li, W., & Gong, L. (2023). Effects of Dietary *Bacillus subtilis* HC6 on Growth Performance, Antioxidant Capacity, Immunity, and Intestinal Health in Broilers. *Animals*, 13(18). <https://doi.org/10.3390/ani13182915>
- Liu, Y., Long, Y., Fang, J., & Liu, G. (2024). Advances in the Anti-Atherosclerotic Mechanisms of Epigallocatechin gallate. In *Nutrients* (Vol. 16, Number 13). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/nu16132074>
- Mokra, D., Joskova, M., & Mokry, J. (2023). Therapeutic Effects of Green Tea Polyphenol (–)-Epigallocatechin-3-Gallate (EGCG) in Relation to Molecular Pathways Controlling Inflammation, Oxidative Stress, and Apoptosis. In *International Journal of Molecular Sciences* (Vol. 24, Number 1). MDPI. <https://doi.org/10.3390/ijms24010340>
- Nasaruddin, N., Astawa, I. N. M., Barata, I. K., Mahatmi., H., Dwinata, I. M. (2024). Infeksi Newcastle Disease disertai Koksidiosis pada Ayam Broiler. *Buletin Veteriner Udayana*, 16(4), 1294-1306. <https://doi.org/10.24843/bulvet.2024.v16.i04.p36>
- Naeini, S. Z., Khajali, F., Ahmadipour, B., & Hassanpour, H. (2022). Effects of Dietary Supplementation of Guanidinoacetic Acid in Soybean or Canola Meal Based Diets on Growth Performance and Development of

- Ascites in Broiler Chickens. *Acta Scientific Veterinary Sciences*, 4, 146–158.
- Nguyen, D. T. N., Le, N. H., Pham, V. V., Eva, P., Alberto, F., Le, H. T., Thi, N., & Dung, N. (2021). Relationship Between the Ratio of Villous Height:Crypt Depth and Gut Bacteria Counts as Well Production Parameters in Broiler Chickens. *The Journal of Agriculture and Development*, 20(3), 1. www.jad.hcmuaf.edu.vn
- Niu, L., Luo, Y., Xie, W., Wang, C., & Liu, Z. (2026). Dietary (–)-Epigallocatechin gallate (EGCG): State-of-the-Art Advances in Bioactivities, Bioavailability Enhancement Strategies, and Applications in Nutrition and Health. *Nutrients*, 18(2), 317. <https://doi.org/10.3390/nu18020317>
- Novotný, J., Horáková, L., Řiháček, M., Zálešáková, D., Štastník, O., Mrkvicová, E., Kumbár, V., & Pavlata, L. (2023). Effect of Different Feed Particle Size on Gastrointestinal Tract Morphology, Ileal Digesta Viscosity, and Blood Biochemical Parameters as Markers of Health Status in Broiler Chickens. *Animals*, 13(15). <https://doi.org/10.3390/ani13152532>
- Nursafitri, E. Y. E., Meilicia, Sifora, S., Hartady, T. (2025). Ko-Infeksi Kolibasilosis dan Koksidirosis pada Peternakan Ayam Broiler di Tanjung Sari, Sumedang, Jawa Barat. *Jurnal Veteriner*, 26(4), 595-604.
- Obianwuna, U. E., Chang, X., Oleforuh-Okoleh, V. U., Onu, P. N., Zhang, H., Qiu, K., & Wu, S. (2024). Phytobiotics in poultry: revolutionizing broiler chicken nutrition with Plant-derived Gut Health Enhancers. In *Journal of Animal Science and Biotechnology* (Vol. 15, Number 1). BioMed Central Ltd. <https://doi.org/10.1186/s40104-024-01101-9>
- Payne, A., Taka, E., Adinew, G. M., & Soliman, K. F. A. (2023). Molecular Mechanisms of the Anti-Inflammatory Effects of Epigallocatechin 3-Gallate (EGCG) in LPS-Activated BV-2 Microglia Cells. *Brain Sciences*, 13(4). <https://doi.org/10.3390/brainsci13040632>
- Perez-Butillo, S., Navajas-Porras, B., Lopez-Maldonado, A., Hinojosa-Nogueira, D., Pastoriza, S., & Rufian-Henares, J. A. (2021). Green Tea and Its Relation to Human Gut Microbiome. *Molecules*, 14(2), 738–754. <https://doi.org/10.3390/molecules>
- PERMENTAN No 14/2017. (2017). *Peraturan Menteri Pertanian Republik Indonesia Nomor 14/PERMENTAN/PK.350/5/2017*.
- Prastio, D. A., Konita, D., Anggriawan, R., Rifai, R., & Kadju, F. Y. D. (2022). Studi Kasus Pertambahan Berat Badan dan Feed Conversion Ratio (FCR) Pada Ayam Broiler di Narti Farm Blitar. *JAS*, 7(2), 32–33. <https://doi.org/10.32938/ja.v7i2.1860>
- Preesong, P., Lertwatcharasarakul, P., Pongmanee, K., Seemacharoensri, A., Tactacan, G. B., Chaosap, C., & Ruangpanit, Y. (2025). Effect of Microencapsulated Organic Acids-essential Oils Blend and Protease on Performance and Gut Health of Broilers Under Nutritional Challenges. *Journal of Animal Science and Technology*, 67(6), 1255–1272. <https://doi.org/10.5187/jast.2024.e115>
- Preethi, R., Rajendran, K., Kannan, V., & Saravanan, S. (2025). Effect of Serratiopeptidase Supplementation on Gut Health and Intestinal

- Microflora in Commercial Broiler Chicken. *International Journal of Veterinary Sciences and Animal Husbandry*, 10(12), 163–167. <https://doi.org/10.22271/veterinary.2025.v10.i12c.2808>
- Putra, I. P. C., Yansri, A. A., Ris, A., Rinca, K. F., Septianingsih, N. L. P. D., Moenek, D. Y. J. A., Wusahaningtyas, L. S., Timur, N. putu V. T. T., Agustin, A. L. D., Suriansyah, Unique, I. G. A. N. P., & Sewoyo, P. S. (2025). *Penyakit Parasit pada Unggas*. Azzia Karya Bersama.
- Rinanti, R. F., Utomo, B., & Tribudi, Y. A. (2022). Mekanisme Konsumsi Kefir Pada Penurunan Kolesterol Darah. *Jurnal Ilmiah Fillia Cendekia*, 7(2), 166. <https://doi.org/10.32503/fillia.v7i2.2333>
- Risna, K. Y., Al Adam, K., Tanti, A., Wibowo, S. E., & Sofia, A. (2025). Studi Profil Pencernaan Ayam Broiler Umur 28 Hari pada Pemeliharaan Sistem Closed House. *Stock Peternakan*, 7 No.1(1). <http://ojs.universitasmuarabungo.ac.id/index.php/Sptr/index>
- Rovaldi, E., Di Donato, V., Paolino, G., Bruno, M., Medei, A., Nisticò, S. P., Pellacani, G., Kiss, N., Azzella, G., Banvolgyi, A., & Cantisani, C. (2025). Epigallocatechin-Gallate (EGCG): An Essential Molecule for Human Health and Well-Being. In *International Journal of Molecular Sciences* (Vol. 26, Number 18). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/ijms26189253>
- Rustam, Ludi Yanti, Achmad Dahlan, Eunike Widya Parameswari, & Aulia Dini Rasfanjani. (2024). *Peternakan dalam Angka 2024*.
- Sariningsih, C. R., Santosa, S. A., & Tugiyanti, E. (2023). Bulletin of Applied Animal Research The Effect of Strain on Feed Conversion Ratio and Broiler Chicken Business Profits Pengaruh Strain Terhadap Feed Conversion Ratio dan Keuntungan Usaha Ayam Broiler. In *BAAR* (Vol. 5, Number 2). <https://www.ejournal.unper.ac.id/index.php/>
- 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>
- Steiner, T. (2009). *Phytogenics in Animal Nutrition, Natural Concepts to Optimize Gut Health and Performance*. Nottingham University Press.
- Suhaeni, N. (2018). *Petunjuk Praktis Berternak Ayam Broiler*. Penerbit Nuansa Cendekia.
- Suriansyah, Yusufn, F., Marsudi, Saelan, E., Septaningsih, A. C., Asrindayu, N., Fahrodi, D. U., Said, N. S., Khaliq, T. D., & Dwijayanti, A. (2025). *Manajemen Sukses Pemeliharaan Ayam Broiler Modern di Indonesia Timur* (Sulasmi & H. Ishal, Eds.). PT. Kamiya Jaya Aquatic.
- Sururi, A. M., Wati, A., & Kartika Maharani, D. (2023). Studi in Silico: Potensi Senyawa Katekin dan Turunannya dari Teh Hijau sebagai Inhibitor HGF serta Profil Toksisitasnya. In *UNESA Journal of Chemistry* (Vol. 12, Number 2).
- Tyagi, A., Kumar, V., Joshi, N., & Dhingra, H. K. (2024). Exploring the Antibacterial Potential of Bile Salts: Inhibition of Biofilm Formation and Cell Growth in *Pseudomonas aeruginosa* and *Staphylococcus aureus*. *Microbiology Research*, 15(3), 1269–1279. <https://doi.org/10.3390/microbiolres15030085>

- U.S. Departement of Agriculture. (2024). *Production-Chicken Meat*. U.S. Departement of Agriculture.
- Wang, J., Deng, L., Chen, M., Che, Y., Li, L., Zhu, L., Chen, G., & Feng, T. (2024). Phytogetic Feed Additives as Natural Antibiotic Alternatives in Animal Health and Production: A Review of the Literature of the Last Decade. In *Animal Nutrition* (Vol. 17, pp. 244–264). KeAi Communications Co. <https://doi.org/10.1016/j.aninu.2024.01.012>
- Wicaksono, D. P., Dewi, A. M., Siti, A. L. A., Nuraini, P., & Han, S. (2024). The Effect of Epigallocatechin gallate on Streptococcus Gordonii Biofilm Formation. *Dental Journal*, 57(4), 254–258. <https://doi.org/10.20473/j.djmkkg.v57.i4.p254-258>
- Widodo, E. (2018). *Ilmu Nutrisi Unggas*. UB Press.
- Wulandari, K., Adi, N. W., Prawitasari, I. A. A., Fatmawati, N. N. D., Nocianitri, K. A., & Sujaya, I. N. (2024). Bile Salt Hydrolase pada Probiotik sebagai Agen Penurun Kolesterol: Kajian Pustaka. *Metamorfosa: Journal of Biological Sciences*, 11(2), 107–122. <https://doi.org/10.24843/metamorfosa.2024.v11.i02.p1>
- Yang, J., Chen, W., Chen, J., Xie, D., Wang, Yeufei, & Zhou, J. (2025). Tea Polyphenol Epigallocatechin Gallate and the Gut health Axis: Unraveling Structural Characteristics, Metabolic Pathways, and Systemic Benefits. 16(12), 100545.
- Yatalaththov, F. G., Maliza, R., Setiawan, H., & Utami, L. B. (2021). The Effect of Coffee Arabica (*Coffea arabica* L.) Fruit Skin Extracts on Small Intestine Morphometry of mice (*Mus musculus* L.) with Ethanol-Induced. *Bioscience*, 5(1), 21. <https://doi.org/10.24036/0202151111571-0-00>