

DAFTAR PUSTAKA

- Addass, P. A., D.L. David, A. Edward, K.E. Zira, and A. Midau. 2012. Effect of age, sex and management system on some haematological parameters of intensively and semi-intensively kept chicken in Mubi. Adamawa State, Nigeria. *Iranian Journal of Applied Animal Science*.2(3):277-282
- Adegoke, A. A. 2014. Perceived Effects of Overcrowding on the Physcal and Psychological Health of Hostel. *Journal of Humanities and Social Science*. 19(9):1–9.
- Aengwanich, W., P. Sridama, Y. Phasuk, T. Vongpralab, P. Pakdee, S. Katawatin, and P. Simaraks. 2003. Effects of ascorbic acid on cell mediated, humoral immune response and pathophysiology of white blood cell in broilers under heat stress. *Songklanakarin Journal Science Technology*. 25(3):297–305.
- Afikasari, D., Rifa'i, and A. C. Diah. 2020. Effects of Probiotic Supplementation Through Feedon the Feed Consumption of Layers Strain Isa Brown. *Jurnal Ternak*. 11(1):35–38.
- Agboola. 2012. Bring Character Education. *European Journal of Education Research*. 1(2):163–170.
- Akbar M., dan M. A. Ma'mun. 2021. Identifikasi telur fertil dan infertil menggunakan jaringan syaraf tiruan Radial Basis Function (RBF) berdasarkan citra tekstur. *Konstelasi*, 1(2): 346-356.
- Allama H, Sofyan, Widodo, dan H. S. Prayogi. 2012. Pengaruh penggunaan tepung ulat kandang (*Alphitobius diaperinus*) dalam pakan terhadap penampilan produksi ayam pedaging. *Jurnal Inovatif Ilmu Pendidikan*. 22(3):1–8.
- Amrullah, I. K. 2004. *Nutrisi Ayam Petelur Cetakan ke-3*. Lembaga Satu Gunung Budi. Cilacap
- Arfah, N. M. 2015. Pengaruh pemberian tepung kunyit pada pakan terhadap jumlah eritrosit, hemoglobin, PCV, dan leukosit ayam broiler. Skripsi Fakultas Kedokteran. Universitas Hasanuddin. Makasar
- Baktiningsih, S., S. Mugiyono, dan D. M. Saleh. 2013. Produksi telur berbagai jenis ayam sentul di gabungan kelompok tani ternak Ciung Wanara kecamatan Ciamis kabupaten Ciamis. *Jurnal Ilmu Pendidikan*. 1(3):993–1000.
- Balci, C., and N. Yenice. 2015. Effects of the scientific argumentation based learning process on teaching the unit of cell division and inheritance to eighth grade students. *Journal of Education in Science, Environment and Health*, 2(1).<https://doi.org/10.21891/jeseh.28130>
- Balogun, A. A., and A. A. Odunsi. 2020. Effects of two supplemental proprietary vitamin-mineral premixes, blend of phyto-additives and storage duration on egg quality of Isa Brown layer chickens. *Nigerian Journal Animal Science*, 22(2), 296–305.
- Baratawidjaja, K.G. 2012. *Imunologi dasar*. Edisi IX. In Badan Penerbit Fakultas

Kedokteran Universitas Indonesia. Jakarta

- Bernard, C.B., J. T. Arnason, B. J. R. Philogène, J. Lam, and T. Waddell. 1990. In Vivo Effect of Mixtures of Allelochemicals on The Life Cycle of The European Corn Borer, *Ostrinia Nubilalis*. *Entomologia Experimentalis et Applicata*. 57:17–22.
- Brata. 1989. Pengaruh frekuensi selama penyimpanan telur tetas puyuh terhadap daya tetas. Skripsi. Universitas Bengkulu.
- Brillard, J.P. 2003. Practical aspects of fertility in poultry. *World's Poultry Science Journal*. 59: 441-446.
- Brillard, J.P. 2009. Practical aspects of fertility in poultry. *Avian Biology Research*. 2: 41-45.
- Budiman, R. 2007. Pengaruh penambahan bubuk bawang putih pada pakan terhadap gambaran darah ayam kampung yang diinfeksi cacing nematoda (*Ascaridia galli*). Skripsi. Fakultas Peternakan. Institut Pertanian Bogor. Bogor
- Burova D., and M. Trubitsyn. 2021. SPF egg production: current status and challenges. IOP Conf. Series: Earth and Environment Science.937(2021)032028.
- Cahyaningsih, U., H. Malichatin dan Y. E. Hediarto .2007. Diferensial leukosit pada ayam setelah diinfeksi *Eimeria tanella* dan pemberian serbuk kunyit (*Curcuma domestica*) dosis bertingkat. *Prosiding Seminar Nasional Teknologi Peternakan Dan Veteriner*, 593–599.
- Cunningham, F.G. 2012. *Obsteri Williams*, Edisi 23 Volume 2, EGC, Jakarta
- Delima, M., and S. Sugito. 2009. Effect of heat stress on body weight gain, heterophile-lymphocyte ratio and body temperature in broiler. *Journal Kedokteran Hewan*, 3(1): 216–224.
- Dellman, B. 1989. *Buku Teks Histologi Veteriner 1*. Indonesia University Press. Jakarta
- Easterday, B.C., V. S. Hinshaw and D. A. Halvorson. 1997. Influenza Diseases of Poultry. In: Calnek, B.W., H.J. Barnes, C.W. Beard, L.R. McDougald and Y.M. Saif eds. *Disease of Poultry*, 9th Edition. Iowa State University Press. Ames. page.583-605.Lowa.
- Elizabeth, A. P and L.S. David. 2018. The Multifaceted Zoonotic Risk of H9N2 Avian Influenza. *Veterinary Sciences*, 5:(82). <https://doi.org/doi:10.3390/vetsci5040082>
- Ensminger, M.E. 2004. *Poultry Sience* 4th Edition. Interstate Publisher. Inc. Illinois
- Emadi M and H. Kermanshahi, 2007. Effect of turmeric rhizome powder on activity of some blood enzyme in broiler chicken. *International Journal Of Poultry Science*. 6(1):48-51.
- Farnell, M.B., R. W. Moore, A. P. McElroy, B. M. Hargis, and D. J. Caldwell. 2000. Effect of prolonged heat stress in single-comb white leghorn hens on progeny resistance to salmonella enteritidis organ invasion. *Avian Disease*: 479–485.

- Febriana, E. 2008. Gambaran hipatologi bursa fabrisius dan timus pada ayam broiler yang terinfeksi marek dan pengaruh pemberian bawang putih, kunyit dan zink. Skripsi. Institut Pertanian Bogor. Bogor
- Fenner, F., F. A. Bachman, E. P.J. Gibbs., F. A. Murphy, M. J. Studdert, and D.O. White. 1987. Virologi Veteriner. Elsevier inc. San Diego
- Frandsen, R. D. 1992. Anatomi dan Fisiologi Ternak. Edisi ke-4. Terjemahan: B. Srigandono dan Koen Praseno. Gajah Mada University Press. Yogyakarta
- Frandsen R. D, W.L. Wilke, and A. F. Dee. 2009. Anatomy and Physiology of Farm Animal 7th Edition. Willey-Blackwell. Colorado
- Georgievskii, V. I, B.N Annenkov and V.T. Samokhin. 1982. Mineral Nutrition of Animal. Butterworths. Toronto.
- Gunawan dan D.T.H. Sihombing. 2004. Pengaruh Suhu Lingkungan Tinggi Terhadap Kondisi Fisiologis Dan Produktivitas Ayam Buras. WARTAZOA. 14(1):31- 38.
- Guyton, A.C., and J. E. Hall. 1997. Buku Ajar Fisiologi Kedokteran. Edisi 9: In Buku Ajar EGC.
- Hamzah H.M., and S. H. A. Abas. 2021. Effect of using different resources of premix in diet on some egg quality of layer hen. IOP Conf. Series: Earth and Environment Science, 937(032028).
- Hastuti, D., P. Rossi, dan A.A. Syihabudin. 2018. Tingkat Hen Day Production (HDP) dan Break Event Point (BEP) Usaha Ayam Ras Petelur (*Gallus sp*). AGRIFO Jurnal Agribisnis Universitas Malikussaleh . 3(2): 76–84.
- He H, V. K. Lowry, P. J. P. Fero, and M. Koghut. 2005. Cp Golligodeoxy nucleotide stimulated chicken heterophil degranulation is serum cofactor and cell surface receptor dependent. Developmental and Comparative Immunology, 9, 255–264.
- Hewajuli, A. Dyah, and N. L. P. Dharmayanti. 2008. Characterisation and identification of Avian Influenza virus (AI). Wartazoa. 18(2): 86–100.
- Holoubek, J., M. Jankovsky, L. Staszko, and D. Hradecka. 2002. Impact of copper and iron additives in feed on productivity of layers and technological characteristics of eggs. Czech Journal Animal Science, 47(4): 146–154.
- Isroli, S. Susanti, E. Widiastuti, Y. Turini, dan Sugiharto. 2009. Observasi beberapa variabel hematologis ayam Kedu pada pemeliharaan intensif. Prosiding Seminar Nasional Kebangkitan Peternakan: 548–557.
- Jamilah, N. Suthama dan L. D. Mahfudz. 2013. Performa produksi dan ketahanan tubuh broiler yang diberi pakan step down dengan penambahan asam sitrat sebagai acidifier. Jurnal Ilmu Ternak Dan Veteriner. 18(4): 251–257.
- Jain, A. 1986. Eosinophil Count in Normal Blood Range: 2-8% of Total White Blood Cells and a Lifespan of 3-5 Days. Journal of Hematology Research. 10(2): 123-135.
- Junguera, L.C. 1977. Basic Histology. Edisi kedelapan. McGraw-Hill. New York.

- Kencana, G. A.Y., I.N. Suartha., A. Nurhandayani dan M. Ramadhan. 2014. Kepekaan telur Specific Pathogen Free dan clean egg terhadap virus flu burung. Jurnal veteriner. 15 (1): 87-93
- Kingori, A.M., 2011. Review of the factors that influence egg fertility and hatchability in poultry. International Journal of Poultry Science.10: 483-492.
- Komalasari, L. 2014. Dampak suhu tinggi terhadap respon fisiologis, profil darah dan performa produksi dua bangsa ayam berbeda. Tesis. Institut Pertanian Bogor. Bogor
- Kusnadi, E. 2008. Perubahan malonaldehida hati, bobot relatif *bursa fabricius* dan rasio heterofil/limfosit (H/L) ayam broiler yang diberi cekaman panas. Skripsi. Fakultas Peternakan Universitas Andalas. Padang.
- Lengkong, E.M., R.L. Jein, T. Linda, and Srimalanshina. Sane. 2015. Substitution of some ration with red tomatoes (*Solanum lycopersicum* l) towards laying hens production appearance. Zootek Journal. 35(2): 247–257.
- Lucas J.L and H. R. Marcos. 2013. Impact of Heat Stress on Poultry Production. Animals, 3(2), 356–369.
- Lopez, C. 2013. Nutrition in organic trace minerals in broilers and broiler breeders. Scientific Congress of Poultry, WPSA-AECA Symposium; Oct 2–4; Lleida, España.
- Marono S.R., Laponte, P. Lombardi, G. Vassaloti, M.E. Pero, F. Russo, L. Gasco P. Parisi G. Picolo, S. Nizza and C. Dimeo. 2017. Productive performance and blood profile of laying hens fed hermetia illuceans larvae meal as total replacement of soybean meal from 24 to 45 week of age. Poult. Science. 96 (6): 1783-1790
- Mack, L. A., J. N. Felver-Gant, R. L. Dennis, and H. W. Cheng, 2013. Genetic variations alter production and behavioral responses following heat stress in 2 strains of laying hens. Poultry Science. 92(2): 285–294.
- Manangi, M.K., M. Vazques-Anon, J.D. Richards, S. Carter, and C. D. Knight. 2015. The impact of feeding supplemental chelated trace minerals on shell quality, tibia breaking strength, and immune response in laying hens. Journal of Applied Poultry Research. 24: 316–326.
- Mashaly, M.M., G.L. Hendricks, M.A. Kalama, A.E. Gehad, A.O. Abbas, and Patterson. H. 2004. Effect of heat stress on production parameters and immune responses of commercial laying hens. Poultry Science. 83(6): 889–894.
- Melsa A., A. Mine., and T. C. Ayse. 2010. Impact of Board Diversity on Boards' Monitoring Intensity and Firm Performance: JEL classification: G3, J16. L25. <http://ssrn.com/abstract=1572283>
- Dennis J. W. Meyer and John., Harvey. 2004. Veterinary Laboratory Interpretation and diagnosis. 3th Edition. WB Saunders Company. Saunders
- Monsalve, D., G. Froning, M. Beck, and Scheideler. 2004. Effect of supplemental dietary vitamin E and selenium from two sources of egg production and vitelline membrane strength in laying hens. Poultry Science. 83: 168–169.

- Moyes., D. Christopher., and M. Patricia, Schulte. 2008. Principles of animal physiology. Edisi kedua. Person International Edition. San Francisco.
- Muharlién. 2010. Meningkatkan kualitas telur melalui penambahan teh hijau dalam pakan ayam petelur. *Jurnal Ilmu dan Teknologi Hasil Ternak*. 5(1): 32–37.
- Mukhtar, A.M., M.I. El-Katcha, and O. Ajuwon. 2020. Effect of dietary supplementation of zinc and copper on growth performance, immune response, and oxidative stress biomarkers in broiler chickens. *Journal Environmental Science and Pollution Research*. 27(26): 32820–32828.
- Mulyadi A, M. L. Triya, A. Barradillah, A. Nuzul, Muttaqien, Fakhurrazi. 2015. Jumlah eritrosit dan nilai hematokrit sapi aceh dan sapi bali di Kecamatan Leumbah Seulawah Kabupaten Aceh Besar. *Journal Medical Veterinaria*. 9(2): 115–118.
- Murphy. P. 2013. The first steps to forming a new organism descriptive embryology 2 Cleavage, Gastrulation, Neurulation and Organogenesis. *Developmental biology*. Lecture 4 and 5.
- Mutrtini, S., R. Susanti, dan H. Ekowati. 2009. Serologi dan virologi virus avian influenza H5N1 pada kucing jalanan di kota Bogor. *Journal Ilmu Pertanian Indonesia*. 14(1): 15–22.
- Mack O. North and D. Donald., Bell. 1990. *Commercial Chicken Production Manual*. Van Nostrand Reinhold. New York
- Office International des Epizooties. 2018. Animal Population. https://www.oie.int/wahis_2/public/wahid.php/Countryinformation/Animalp%0Aopulation
- Park, S.Y., S.G. Birkhold, L.F. Kubena, D.J. Nisbet, and S.C. Ricke. 2004. Review on the role of dietary zinc in poultry nutrition, immunity, and reproduction. *Biological Trace Element Research*, 101 (2), 147–163.
- Rajakumari, R., O.S. Oluwafemi, S. Thomas, and K. Nandakumar. 2018. Dietary supplements containing vitamins and minerals: formulation, optimization and evaluation. *Powder Technology*. 336: 481–492.
- Redmond, S. B, P. Chuammitri, C. B. Andreasen, P. Dusan., and J. L. Susan. 2011. Genetic control of chicken heterophil function in advanced intercross lines: associations with novel and with known *Salmonella* resistance loci and a likely mechanism for cell death in extracellular trap production. *Immunogenetics*. 63: 449–458.
- Richards, J.D., J. Zhao, R.J. Harrell, C.A. Atwell, and J. J. Dibner. 2010. Trace mineral nutrition in poultry and swine. *Trace Mineral Nutrition in Poultry and Swine*. Asian Austral. *Journal Animal*. 23(11): 1527–1534.
- Rizal, Y. 2006. *Ilmu nutrisi unggas*. Andalas University Press. Padang
- Roitt., I. 2003. *Essential Immunology*. Blackwell Science limited. New Jersey
- Rokhmana, L.D., E. Ismari. dan M. Wisnu. 2013. Pengaruh penambahan bangle (*Zingiber casumunar*) dalam pakan terhadap bobot absolut bursa fabrisius dan rasio heterofil limfosit ayam broiler. *Animal Agriculture Journal*. 2(1): 332–369.

- Romanov, M.N. 1999. Goose production efficiency is influenced by genotype, nutrition and production systems. *World's Poultry Science Journal*. 55: 281-294.
- Scanes, C.G., G. Brant. and M. E. Ensminger. 2004. *Poultry Science*, 4th eds Pearson Prentice Hall. illinois
- Schalm., J. 1971. *Schalm's Veterinary Hematology*. 6th Ed. (Editor: Do). Blackwell Publishing Ltd. Oxford
- Schalm, O. W. 2010. *Vetenary Hematology*. 6nd Edition. Lea and Febriger. Philadhelpia
- Seemann, G., and M. Kock. 2008. Fertile eggs – a valuable product for vaccine production. *Lohman Information Issue* 2008/02. <https://lohmann-breeders.com/lohmanninfo/fertile-eggs-a-valuable-product-for-vaccine-production>
- Sigel, H.S. 1995. Stress, strain and resistance. *Britania Poultry Science*. 36:3-22
- Sugito dan M. Delima. 2009. Dampak cekaman panas terhadap pertambahan bobot badan, rasio heterofil, limfosit dan suhu tubuh ayam broiler. *Medical Veterinary*. 3(1) : 218-226
- Suryani, N., N. Suthama, and I.W. Hanny. 2012. Egg fertility and embryonic mortality of breeder kedu hen fed diet with nutrient improvement and *sacharomyces cerevisiae* supplementation. *Animal Agriculture*. 01(01): 389–404.
- Susilorini, E. T. 2008. *Budi daya ternak potensial*. Penebar Swadaya. Jakarta.
- Sutedjo, A. Y. 2007. *Mengenal penyakit melalui hasil pemeriksaan laboratorium*. Amara Books. Yogyakarta.
- Swayne, E. David, R. Glisson, L.R. McDougald, L.K. Nolan, D.L. Suarez, and V. L. Nair. 2013. *Diseases of Poultry* (13th ed.). Wiley-Blackwell.
- Swenson, M. J. 1993. *Physiological properties and celluler and chemical constituent of blood in dukes physiology of domestic animals*, eleventh edition. Comstock publishing Associates a Division of Cornell University Press. Ithaca and London.
- Światkiewicz, S., A. A. Włosek, and D. Jozefiak. 2014. The efficacy of organic minerals in poultry nutrition: review and implications of recent studies. *Poultry Science Journal*. 70: 75–486.
- Tamzil, M. H. dan I. Budi. 2020. Profil peternakan ayam ras petelur dan analisa faktor pemicu belum tercapainya swasembada telur konsumsi di Nusa Tenggara Barat. *Jurnal Ilmu dan Teknologi Peternakan Indoneisa*. 6(1):1-9.
- Thaxton, J.P. and S. Puvadolpirod. 2000. Model of physiological stress in chicken. Edisi kelima. *Quantitative Evaluation*. Departement of Poultry Science, Mississippi State University. 79: 391–395.
- Ulupi N., dan T.T. Ihwantoro. 2014. Gambaran darah ayam kampung dan petelur komersial pada kandang terbuka di daerah tropis. *Jurnal Ilmu Produksi Dan Teknologi Hasil Peternakan*. 2(1): 219–233.

- Untari, H.D, S.H. Irianingsih, dan D.D Raditya. 2014. Pengaruh perbedaan jenis ayam petelur terhadap produktivitas, kesehatan dan sensitivitas telur ayam berembrio (TAB) sebagai media uji AI dan ND. In: Proceeding Ratekpil 2014 Kementerian Pertanian.
- Upender, A. Kumar, and S. Kumar. 2021. Vitamin and mineral disparities in poultry birds. Vet. Alumnus Vol. 43: (1&2).
- Wahyu, J. 2009. Ilmu nutrisi unggas. Cetakan ke-4. Gadjah Mada University Press. Yogyakarta.
- Walker, H.K., W.D. Hall and J.W. Hurst. 1990. Clinical Method, 3rd Edition. Butterworths Publisher. Boston
- Wardhana A. H., E. Kencanawati, Nurmawati, Rahmaweni, dan C.B. Jatmiko. 2001. Pengaruh pemberian sediaan patikan kebo (euphobia hirta l) terhadap jumlah eritrosit, kadar hemoglobin, dan nilai hematokrit pada ayam yang diinfeksi dengan eimeria tenella. Jurnal Ilmu Ternak. 6(2): 126–133.
- Wardiny, T. M, Y. Retnani dan Taryati. 2012. Pengaruh ekstrak daun mengkudu terhadap profil darah puyuh starter. Jurnal Ilmu dan Teknologi Peternakan. 2:2.
- Widjastuti, T., and R. Kartasudjana. 2006. The effect of restricted feeding and its implication on the performance of coturnix-coturnix japonica at the first production phase. Journal Indonenisan Tropical Animal Agriculture. 31(3): 162–166.
- Widjajakusuma, R dan H. Sikar. 1986. Fisiologi hewan. Institut Pertanian Bogor. IPB Press. Bogor.
- Yair, R., and Z. Uni. 2011. Content and uptake of minerals in the yolk of broiler embryos during incubation and effect of nutrient enrichment. Poultry Science,. 90(7): 1523–1531.
- Yoeng dan Rengaraj. 2015. Faktor – faktor yang mempengaruhi fertilitas. Rrader view. <https://prezi.com/j6xzej6kjlxx3/tekpen-faktor-yang-mempengaruhi-fertilitas-dan-daya-tetas/>
- Zahra, A. A., D. Sunarti, dan E. Suprijatna. 2012. Pengaruh pemberian pakan bebas pilih (free choice feeding) terhadap performans produksi telur burung puyuh. (*Coturnix Coturnix Japonica*). Animal Agriculture Journal. 1: 1–11.
- Zhang, Z. F., J. H. Cho. and I. H. Kim. 2013. Effects of bacillus subtilis UBTMO2 on growth performance, relative immune organ weight, gas concentration in excreta, and intestinal microbial shedding in broiler chickens. Journal. Livestock. Science. 155: 343 – 347.