

DAFTAR PUSTAKA

- Addawiyyah, N. R., Ayuningsih, B., Budiman, A., Hernaman, I. 2021. Produksi Gas pada Ransum Domba Berbasis Rumput Gajah cv Mott dan Leguminosa Pohon. *Jurnal Sumber Daya Hewan*. 2 (2): 30–34.
- Ahn, J. H., J. H. Choi, I. S. Nam. 2021. Effects of feeding total mixed ration in the growing and fattening periods on the growth and carcass characteristics of Hanwoo steers. *Sarhad Journal of Agriculture*. 37 (4): 1476-1486. <https://dx.doi.org/10.17582/journal.sja/2021/37.4.1476.1484>
- Ako, A., R. F. Utamy, S. Baba, H. Hastang, and A A. Rahman. 2023. The effect of leaf meal in supplements on milk yield and quality of Friesian Holstein dairy cows. *Livestock Research for Rural Development*. 35 (6). <https://lrrd.cipav.org.co/lrrd35/3/3522renn.html>
- Amalfitano, N., Patel, N., Haddi, M.-L., Benabid, H., Pazzola, M., Vacca, G.M., et al. 2024. Detailed mineral profile of milk, whey, and cheese from cows, buffaloes, goats, ewes, and dromedary camels, and efficiency of recovery of minerals in their cheese. *Journal of Dairy Science* 107(11):8887-8907. doi:10.3168/jds.2023-24624.
- Amien, I., M. Nasich, Marjuki, 2013. Pertambahan bobot badan dan konversi pakan sapi limousin cross dengan pakan tambahan probiotik, Brawijaya. *Jurnal ilmu ilmu peternakan* 4(1): 1-7.
- Anderson, M.J. 1975. Metabolism of liquid whey fed to sheep. *Journal of Dairy Science* 58(12):1856.1859. <https://api.semanticscholar.org/CorpusID:36922808>.
- Anggoro, D., A. Qisthon, S. Surhayati, and K. Adhianto. 2023. Comparison of feeding different protein levels to physiological of Brahman Cross cattle. *Jurnal Riset dan Inovasi Peternakan*. 7 (3): 357-362. <https://doi.org/10.23960/jrip.2023.7.3.357-362>
- Araújo, A. R., J. P. Muir, A. M. D. Vasconcelos, R. C. F. F. Pompeu, L. F. Guedes, C. D. S. Costa, M. S. D. S. Carneiro, W. É. Campos, M. C. P. Rogério. 2020. Consumption, apparent digestibility and nutrient balance of diets with bovine milk whey for goats. *Semina: Ciências Agrárias Londrina*, 41 (5) : 1719-1728. :1719-1728. <https://doi.org/10.5433/1679-0359.2020v41n5p1719>
- Amerngari, S. A. M. Azizah, S. Sutikno, W. Puastuti, A. Amir, L. Praharani, and S. A review of dairy cattle heat stress mitigation in Indonesia. *Vet World* 16 (5): 1098–1108. www.doi.org/10.14202/vetworld.2023.1098-1108
- Amerngari, S. A. M. . 2022. Produksi susu nasional. Badan Pusat Statistik Nasional.



- Bailes, J., Soloviev, M. 2021. Insulin-like growth factor-1 (IGF-1) and its monitoring in medical diagnostic and in sports. *Biomolecules* 11(2):217. doi:10.3390/biom11020217.
- Beretta, V., Simeone, A., Morteiro, I., Young, I. 2020. Effect of crude protein level in high grain diets on calf growth and feed utilization. *Agrociencia Uruguay* 24(2):111. doi:10.31285/agro.24.111
- Bohlen, J, and E Rollin (2018) Calf Health Basic. Bulletin 1500. University of Georgia
- Byers, J. H., I. R. Jones, J. R. Haag. 1952. Blood Hemoglobin Value of Dairy Cattle. Oregon Agri. Exploration Station.
- Cabral, RG, Chapman CE, Kent EJ, Erickson PS (2015) Estimating plasma volume in neonatal Holstein calves fed one or two feedings of a lacteal-based colostrum replacer using. *Canadian Journal of Animal Science*. 95: 293-298. <https://doi.org/10.4141/cjas-2014-176>
- Chen, L., V. M. Thorup, A. B. Kudahl, and S. Østergaard. 2024. Effects of heat stress on feed intake, milk yield, milk composition, and feed efficiency in dairy cows: A meta-analysis. *Jurnal of Dairy Science*. 107 (5): 3207-3218. <https://doi.org/10.3168/jds.2023-24059>
- Clapp, J. B., S. Croarkin, C. Dolphin, and S. K. Lyons. 2015. Heart rate variability: a biomarker of dairy calf welfare. *Animal Production Science*. 55 (1): 1289–1294. <http://dx.doi.org/10.1071/AN14093>
- Das, A. S., M. Joseph, S. Simon, A. P. Usha, K. Shyama, M. Aslam, and E. Niyas. 2019. Cholesterol, triglycerides and progesterone levels of postpartum cows supplemented with rumen bypass fat. *The Pharma Innovation Journal*. 8 (11): 224-227.
- Davis D. A. 2015. Feed and Feeding Practices in Aquaculture. Woodhead Publishing Series in Food Science, Technology and Nutrition: United kingdom.
- Davison, C., Michie, C., Tachtatzis, C., Andonovic, I., Bowen, J., Duthie, C.A. 2023. Feed conversion ratio (FCR) and performance group estimation based on predicted feed intake for the optimisation of beef production. *Sensors* 23(10):4621. doi:10.3390/s23104621.
- Devignes, C. S., Carmeliet, G., Stegen S. 2022. Amino acid metabolism in skeletal cells. *Bone Reports*. 17: 101620. <https://doi.org/10.1016/j.bonr.2022.101620>
- Devries, M. C. Phillips, S. M. 2015. Supplemental proteinin support of muscle mass tage whey. *Journal of Food Science*, 8 (1): 8-15.
- . 2024. Enhancing dairy farm welfare: a holistic examination of on and economic performance in Kahramanmaraş Province, ility. 16; 2989. <https://doi.org/10.3390/su16072989>
- L. Kelly, and C. M. Delahunty. 2007. Mouthfeel and flavour of



- fermented whey with added hydrocolloids. *International Dairy Journal*. 17 (1): 308-315; <https://doi.org/10.1016/j.idairyj.2006.04.009>
- Faridah, R. 2019. Kandungan nutrisi whey hasil sampingan dari dangke. *Jurnal Ternak* 10(1):18-20. doi:10.30736/jy.v10i1.37.
- Fatma, Soeparno, Nurliyani, C. Hidayat, dan M. T. Maharani. 2012. Karakteristik whey limbah dangke dan potensinya sebagai produk minuman dengan menggunakan *Lactobacillus acidophilus* FNCC 0051. *Agritech*. 32 (4): 352-361.
- Fatma, Soeparno, Nurliyani, C. Hidayat, dan M. T. Maharani. Optimasi kondisi fermentasi whey dangke sebagai produk minuman dengan response surface methodology. *Agritech*. 32 (3):215-222
- Faza, M. H. H., I. B. G. Partama, dan A. A. P. P. Wibawa. 2021. Pengaruh pemberian jenis konsentrat berbeda terhadap performans sapi bali yang diberikan pakan dasar rumput lapangan. *Jurnal Peternakan Tropika*. 9 (1) : 60-68.
- Fernández, M. S, and M. Lübeck. 2020. Production of leaf protein concentrates in green biorefineries as alternative feed for monogastric animals. *Animal Feed Science and Technology*, 268: 1114605. <https://doi.org/10.1016/j.anifeedsci.2020.114605>
- Frans, H. J. C., F. U. Datta, dan Y. T. R. M. R. Simarmata. 2020. Deskripsi
- Gershuni, V. M., S. L. Yan, and V. Medici. 2018. Nutritional ketosis for weight management and reversal of metabolic syndrome. *Current Nutrition Reports* 7 (3): 97–106. <https://doi.org/10.1007/s13668-018-0235-0>
- Giannone, C., M. Bovo, M. Ceccarelli, D. Torreggiani, and P. Tassinari. 2023. Review of the heat stress-induced responses in dairy cattle. *Animals* 13: 3451. <https://doi.org/10.3390/ani13223451>
- Ginantika, P. S., D. S. Tasripin, H. Indijani, and J Arifin. 2021. Production performance of 1st lactation Friesian Holstein dairy cows with milk production more than 7000 Kg (case study at PT. Ultra Livestock South Bandung). *Journal of Animal Research* 2 (1): 10–14. <https://doi.org/10.24198/jsdh.v2i1.33097>
- Gunun, N. C., Kaewpila, W. Khota, W. Phlaetita, A. Cherdthong, and S. Polyorach. 2022. The effect of Indigo (*Indigofera tinctoria* L.) waste on growth performance, digestibility, rumen fermentation, hematology and immune response in growing beef cattle. *Animals* 13(84): 1-12; <https://doi.org/10.3390/ani13010084>
- Hambakodu, M. Kaka, A., dan Ina, Y. T. 2020. Kajian in vitro pencernaan fraksi serat dan media cairan rumen kambing. *Jurnal Ilmu Dan Teknologi*, 7(1): 29-34.
- Maarsa, I G. Mahardika. 2019. The effect of feeding cheese whey on bred pig performance aged 8-20 weeks. 7 (3): 1096 – 1106. <https://doi.org/10.24843/ejpt.2019.v07.i03.p011>



- Hasbi., S. Gustina, N. W. K. Karja, I. Supriatna, dan M. A. Setiadi. 2018. Efektivitas Insulin-Like Growth Factor-I (IGF-I) dalam media maturasi in vitro pada pematangan inti dan fertilisasi oosit sapi Bali. *Acta Veterinaria Indonesiana*. 6 (1): 24–29.
- Hudaya, M.F., Sitaresmi, P.I., Noviandi, C.T., Widyobroto, B.P., Widayati, D.T. 2020. Behavior and blood profile in Friesian-Holstein dairy cows in the special region of Yogyakarta, Indonesia. *Journal of Animal Behaviour and Biometeorology* 8(4):244-249.
- Hussain, S.M., Bano, A.A., Ali, S., Rizwan, M., Adrees, M., Zahoor, A.F., et al. 2024. Substitution of fishmeal: Highlights of potential plant protein sources for aquaculture sustainability. *Heliyon* 10(4):e26573.
- Huuskonen, A. 2017. Effects of skim milk and whey-based milk replacers on feed intake and growth of dairy calves. *Journal Of Applied Animal Research*, 45 (1) : 480–484
- Immler, M., Büttner, K., Gärtner, T., Wehrend, A., Donat, K. 2022. Maternal impact on serum immunoglobulin and total protein concentration in dairy calves. *Animals* 12(6):755. doi:10.3390/ani12060755.
- Indonesian National Standard (2024) Dairy concentrate. National Standardization Agency.
- Ježek, J., M. Nemec, J. Starič, And M. Klinkon. 2011. Age related changes and reference intervals of haematological variables in dairy calves. *Bulletin of the Veterinary Institute in Pulawy* 55: 471-478.
- Kassa Zewdie, A. 2019. The different methods of measuring feed digestibility: A review. *EC Nutrition* 14(1) 68-74.
- Kefe, K., Nahak, R.T.B.O., Bira, G.F. 2020. Perbandingan level tepung gamal (*Gliricidia sepium*) dan tepung lamtoro (*Leucaena leucocephala*) yang berbeda terhadap parameter kimia wafer sebagai pakan ruminansia kecil. *Journal of Animal Science* 5(1):8-11. doi:10.32938/ja.v5i1.931.
- Khan, M. A., D. M. Weary, and M. A. G. Keyserlingk. 2011. Invited review: Effects of milk ration on solid feed intake, weaning, and performance in dairy heifers. *Journal of Dairy Science*. 94:1071–1081. <https://doi.org/10.3168/jds.2010-3733>
- Kim, J.H., Kim, D.H., Jo, S., Cho, M.J., Cho, Y.R., Lee, Y.J., et al. 2022a. Immunomodulatory functional foods and their molecular mechanisms. *Journal of Molecular Medicine* 54(1):1-11. doi:10.1038/s12276-022-022-022-0
- Kim, J.H., Kim, D.H., Jo, S., Cho, M.J., Cho, Y.R., Lee, Y.J., et al. 2022b. Effect of protein levels on growth performance and stress parameters in heat stress. *Scientific Reports* 12(1):8113. doi:10.1038/s41598-022-022-022-0
- Nejad, J., Peng, D.Q., Jo, Y.H., Kim, J., Lee, H.G. 2022b. Effect of protein levels on growth performance and stress parameters in heat stress. *Scientific Reports* 12(1):8113. doi:10.1038/s41598-022-022-022-0



- Kurniawati, R., C. M. S. Lestari, dan E. Purbowati. 2018. Pengaruh Perbedaan Sumber Energi Pakan (Jagung dan Pollard) terhadap Respon Fisiologis Kelinci New Zealand White Betina. *Jurnal Peternakan Indonesia*. 20 (1): 1-7. <https://doi.org/10.25077/jpi.20.1.1-7.2018>.
- Kutlu, H., E. Avci, and F. Özyurt. 2020. White blood cells detection and classification based on regional convolutional neural networks. *Medical Hypotheses*. 135: 109472. <https://doi.org/10.1016/j.mehy.2019.109472>
- Liu, K. 2019. Effects of sample size, dry ashing temperature and duration on determination of ash content in algae and other biomass. *Algal Research* 40:101486. doi:10.1016/j.algal.2019.101486.
- Liu, Y., Y. Lil, Q.Lu, L. Sun, S. Du, and T. M. Liu. 2022. Effects of lactic acid bacteria additives on the quality, volatile chemicals and microbial community of leymus chinensis silage during aerobic exposure. *Front. Microbiol.* 13: 938153. <https://doi.org/10.3389/fmicb.2022.938153>
- Lu, M., J. U. Flanagan, R. J. Langley, M. P. Hay, J. K. Perry. 2019. Targeting growth hormone function: strategies and therapeutic applications. *Signal Transduction and Targeted Therapy*. 4(3); 1-11. <https://doi.org/10.1038/s41392-019-0036-y>
- Luan, S. E., P. K. Tahuk, and F. Bira. 2020. Glucose and blood urea profile of male Bali cattle with a complete feed containing different crude protein levels. *Journal of Animal Science*. 5 (4): 67-69. <https://doi.org/10.32938/ja.v5i4.1048>
- Maharani, N., J. Achmadi, and S. Mukodiningsih. 2015. Biological test of feed consumption, rumen bacterial population and pH of complete calf starter pellets in preweaning Friesian Holstein calves, Diponegoro. *Agripet* 15 (1): 61-65. <https://doi.org/10.17969/agripet.v15i1.2302>
- Maulidia, F., A. Thaib., dan Nurhayati. 2022. Karakteristik Proksimat Tepung Daun Indigofera zollingeriana Hasil Fermentasi Menggunakan Bakteri Bacillus sp. Sebagai Bahan Baku Pakan Ikan, *Jurnal TILAPIA*, (3) 2 : 1-9
- Mayulu, H., Fauziah, N., Christiyanto, M., Sunarso, S., Haris, M.I. 2018. Digestibility value and fermentation level of local feed-based ration for sheep. *Animal Production* 20(2):95-102. doi:10.20884/1.jap.2018.20.2.706.
- McDonald, P. 1981. *The Biochemistry of Silage*. John Wiley and Sons, Ltd. Chichester. New York.
- McLean, J. A., A. J. Downie, C. D. R. Jones, D. P. Strombough, and C. A. Glasbey. 2017. Adjustments of stress (Bos Taurus) to abrupt changes in temperature. *Journal of Agricultural Science*. 48: 81-84. <https://doi.org/10.1017/S0021859600033451>
- nd, H. Berends, L. L. Guan, and M. A. Steele. 2017. From pre-transformation of the young calf's gastrointestinal tract. *Journal of Agricultural Science*. 48: 81-84. <https://doi.org/10.3168/jds.2016-12474>



- Miranda, M. V. F. G. D., T. D. S. Teófilo, A. P. P. D. Assis, H. M. D. S. Leite, A. K. B. D. Moura, V. L. D. L. Melo, J. D. F. Neto, and P. D. O. Lima. 2021. Morphological and Volumetric Characteristics of Holstein-Gir Crossbred Calves' Stomachs Fed Diets Comprising Cheese Whey and Milk Powder. *Journal of Sustainable Development*, 14 (2) : 179-187.
- Moran. J. 2005. *Tropical Dairy Farming: Feeding Management for Small Holder Dairy Farmers in the Humid Tropics*. CSIRO Publishing institutional: Australia. <https://doi.org/10.1071/9780643093133>
- Muda, I., J. Prastowo, W. Nurcahyo, dan S. Sarmin. 2021. Anthelmintic effect of *Indigofera tinctoria* L on *Haemonchus contortus* obtained from sheep in Indonesia. *Vet. World*, 14 (1): 1272–1278.
- Nadir, M., S. Syahrir, A. L. Munasirah, I. Warni, N. Sari, Satriani, A. Sulistiawati, M. P. Anugrah. 2024. Exploration of Nutritional Value of *Indigofera* Shoot Leaves Based on Different Ages, *International Journal of Chemical and Biochemical Sciences (IJCBS)*, 25(19): 773-778.
- National Academies of Sciences, Engineering, and Medicine. 2021. Nutrient requirements of dairy cattle. Eighth Revised Edition. The National Academies Press, Washington, DC., USA. <https://doi.org/10.17226/25806>.
- NRC (2001) 7th Revised Edition, Subcommittee on Dairy Cattle Nutrition, Committee on Animal Nutrition, Board on Agriculture and Natural Resources, National Research Council, National Academy Press, Washington, D.C.
- Nubatonis, A. I., E. Hartati, G. A. Y. Lestari, and M. Nenobais. 2024. Effect of feeding sorghum *Clitoria ternatea*-based complete feed silage with the addition of concentrates containing ZnSO₄ and Zn-Cu isoleucinate on blood metabolite levels of Bean Goats. *Animal Agricultura*. 1(3): 104-114. <https://doi.org/10.59891/animacultura.v1i3.21>
- Nutrient Requirement Of Dairy Cattle. 2001. National Academy Press. Washintong, D. C
- Ockenden, E.M., Russo, V.M., Leury, B.J., Giri, K., Wales, W.J. 2023. Preweaning nutrition and its effects on the growth, immune competence and metabolic characteristics of the dairy calf. *Animals* 13(5):829.
- Panahiha P., H. M. Alamouti, M. K. Bonchenari, and J. R. Aschenbach. 2022. Growth performance, nutrient digestibility, and ruminal fermentation of dairy calves fed starter diets with alfalfa hay versus corn silage as forage and soybean oil versus s fat source. *Journal of Dairy Science*. 105 (2) :9597–9609.
- . Steele, K. E. Leslie, D. L. Renaud, and T. J. DeVries. 2021. g increase in milk allowance and type of gradual weaning mance and health of calves fed lower levels of milk. *Journal of* 4: 11176–11192; <https://doi.org/10.3168/jds.202120431>



- Parsons, S. D., M. A. Steele, K. E. Leslie, D. L. Renaud, C. N. Reedman, C. B. Winder, T. J. DeVries. 2021. Effect of a milk byproduct-based calf starter feed on dairy calf nutrient, consumption, rumen development, and performance when fed different milk levels. *Journal of Dairy Science*. 105: 1-20. <https://doi.org/10.3168/jds.2022-22900>
- Parsons, S.D., Steele, M.A., Leslie, K.E., Renaud, D.L., Reedman, C.N., Winder, C.B., et al. 2022. Effect of a milk byproduct-based calf starter feed on dairy calf nutrient consumption, rumen development, and performance when fed different milk levels. *Journal of Dairy Science* 105(1):281-300.
- Permana, A. H., Hernaman, I., Mayasari, N. 2020. Profil protein darah sapi perah masa transisi dengan indigofera zollingeriana sebagai pengganti konsentrat serta penambahan mineral dalam pakan. *Sains Peternakan* 18(1):53-59. doi:10.20961/sainspet.v18i1.37981.
- Pretini, V., M. H. Koenen, L. Kaestner, M. H. A. M. Fens, R. M. Schiffelers, M. Bartels, R. V. Wijk. 2019. Red Blood Cells: Chasing Interactions. *Frontiers in Physiology*. 10: 945. <https://doi.org/10.3389/fphys.2019.00945>
- Purwadi, 2017. Pengaruh Pembedaan Kualitas Konsentrat pada Tampilan Ukuran-Ukuran Tubuh dan Kosumsi Pakan Pedet FH Betina Lepas Sapih, Boyolali. *Tropical Animal Science* 1(1):1-5.
- Purwanti, A. I., M. Arifin, dan A. Purnomoadi. 2014. Hubungan antara lingkaran dada dengan bobot badan kambing kambing Jawarandu betina di Kabupaten Kendal. *Animal Agriculture Journal*, 3 (4) : 606-611.
- Putri E.M., Zainn M., Warly L., Hermon H., 2021. Effects of rumen-degradable-to-undegradable protein ratio in ruminant diet on in vitro digestibility, rumen fermentation, and microbial protein synthesis. *Vet. World*. 14(3): 640-648 www.doi.org/10.14202/vetworld.2021.640-648
- Raguati, and Rahmatang. 2012. USMB plus supplementation on blood hemogram of PE goats. *Sriwijaya Journal of Animal Science*. 1 (1): 55-64. <https://doi.org/10.33230/JPS.1.1.2012.1232>
- Roadknight, N, Mansell P, Jongman E, Courtman N, McGill D, Hepworth G, and Fisher A. 2021. Blood parameters of young calves at abattoirs are related to distance transported and farm of origin. *Journal of Dairy Science*. 104:9164-9172. <https://doi.org/10.3168/jds.2020-19729>
- Salimah, A. B. N., Mayasari, dan U H. Tanuwiria. 2022. Manajemen Pemberian pakan Starter terhadap Kandungan Imunoglobulin-G (IgG) dan Bobot Badan Pedet Sapi Perah di PT UPBS Pangalengan Jurnal ... :61-70.
- mantri., Ronny. R. N., A. Saefuddin, dan C. Talib 2014. Kurva ... i Perah Fries Hollands Dari Lahir Sampai Umur Kawin Pertama ... tematika Logistic. *Jurnal Informatika Pertanian*. 23(1):75- 84.



- Santoso, I.G.D., Salman, L.B., Tasripin, D.S., Mutaqin, B.K., Tanuwiria, U.H. 2021. Pengaruh pemberian feed suplement dalam ransum lengkap terhadap performans pedet sapi perah yang dipelihara di dataran sedang. *Jurnal Sumber Daya Hewan* 2(2):35-40.
- Saputra, R. A., N. Mayasari, U. H. Tanuwiria. 2022. Effect of supplementary feeding in complete rations on the faunal status of dairy calves reared in the highlands. *Jurnal Sumber Daya Hewan*. 3 (2): 13-18. <https://doi.org/10.24198/jsdh.v3i2.42292>
- Sari, S. R. P. W., I. N. Suartha, I. W. Batan. 2016. Status Praesen Pedet Sapi Bali. *Buletin Veteriner Udayana*, 8 (1): 36-43.
- Soleh, A. R., A. H. K. Amrullah, and I. Badarina. 2022. Effects of feeding complete feed containing gamal leaf flour on growth of Rex Rabbits. *Buletin Peternakan Tropis*. 3 (2): 96-102. <https://doi.org/10.31186/bpt.3.2.96-102>
- Song, J, Q. Yu, X. Wang, Y. Wang, Y. Zhang, and Y. Sun. 2023. Relationship between microclimate and cow behavior and milk yield under low-temperature and high-humidity conditions. *Frontiers in Ecology and Evolution*. 11:1058147. <https://doi.org/10.3389/fevo.2023.1058147>
- Statistik Peternakan dan Kesehatan Hewan. 2018. Tingkat import susu nasional. Direktorat Peternakan dan Kesehatan Ternak.
- Suherman, D. dan B. P. Purwanto. 2015. Respon fisiologis sapi perah dara Fries Holland yang diberi konsentrat dengan tingkat energi berbeda. *Jurnal Sains Peternakan Indonesia*. 10(1) : 13-21.
- Suherman, D., B. P. Purwanto, W. Manalu, and I. G. Permana. 2013. Model for determining critical temperature in dairy cows based on production ability and feed management. *Jurnal Sain Peternakan Indonesia*. 8 (2): 121-138. <https://doi.org/10.31186/jspi.id.8.2.121-138>
- Suherman, D., S. Muryanto, and E. Sulistyowati. 2017. Evaluation of in-house microclimate using different roof heights associated with physiological responses of adult Bali cattle in XIV Koto Sub-district, Mukomuko Regency. *Jurnal Sain Peternakan Indonesia*. 12(4): 397-410. <https://doi.org/10.31186/jspi.id.12.4.397-410>
- Sukandi, S., D. P. Rahardja, H. Sonjaya, H. Hasbi, S. Baco, S. Gustina, and K. D. D. Adiputra. 2023. Effect of heat stress on the physiological and hematological of and polled Bali cattle. *Advances in Animal and Veterinary* 6): 893-902. <https://dx.doi.org/10.17582/journal.aavs/2023/>
- Suherman, I. Badarina, S. Mujiharjo, dan S. Fanhar. 2019. sapi fries holland laktasi yang diberi ransum dengan konsentrat



- mengandung kulit durian (*durio zibethinus*) difermentasi *pleorotus ostreatus*. Jurnal Sain Peternakan Indonesia. 14(1) : 101-112.
- Sulmiyati, dan R. Malaka. 2017. Pemberian whey-dangke dalam air minum menekan kadar kolesterol, trigliserida dan lipoprotein darah ayam broiler. Jurnal Veteriner. 18 (2) : 257-262.
- Sulmiyati, dan R. Malaka. 2017. Respon ayam broiler terhadap pemberian whey dangke. Jurnal Saintek Peternakan dan Perikanan. 1 (1) : 1-6.
- Susanty, H., Purwanto, B.P., Sudarwanto, M., Atabany, A. 2018. Agroclimatic effects on milk production and sub-clinical mastitis prevalence in dairy cattle. Journal of the Indonesian Tropical Animal Agriculture 43(4):373-382.
- Sutera, A. M., F. Arfuso, G. Tardiolo, V. Riggio, F. Fazio, R. A.Cigliano, A. Paytuví, , and A. Zumbo. 2023. Effect of a Co-Feed Liquid Whey-Integrated Diet on Crossbred Pigs' Fecal Microbiota. Animals, 13(11): 1750.
- Sutera, A. M., F. Arfuso, G. Tardiolo, V. Riggio, F. Fazio, R. A.Cigliano, A. Paytuví, , and A. Zumbo. 2023. Effect of a Co-Feed Liquid Whey-Integrated Diet on Crossbred Pigs' Fecal Microbiota. Animals, 13(11): 1750. <https://doi.org/10.3390/ani13111750>
- Syahrial, V., U. H. Tanuwiria, and N. Mayasari. 2022. Effect of supplementary feeding in complete rations on the faecal status of dairy calves reared at BPPIBTSP Bunikasih. Jurnal Nutrisi Ternak Tropis dan Ilmu Pakan. 4(4):119-128. <https://doi.org/10.24198/jnttip.v4i4.43092>
- Syaikhullah, G. M. Adhyatma, and H. Khasanah. 2020. Physiological response of thin-tailed sheep to different feeding times. Jurnal Sains dan Teknologi Peternakan. 22 (1) : 33-39. <https://doi.org/10.31605/jstp.v2i1.843>
- Thompson, I. M, and G. E. Dahl. 2012. Dry-period seasonal effects on the subsequent lactation. The Professional Animal Scientist. 28(6): 628-631. [https://doi.org/10.15232/S1080-7446\(15\)30421-6](https://doi.org/10.15232/S1080-7446(15)30421-6)
- Tirajoh, S. 2022. Pemanfaatan Tepung daun *Indigofera sp.* terhadap penampilan produksi ayam kampung unggul. Jurnal Ilmu Dan Industri Peternakan 8(1):45-57. doi:10.24252/jiip.v8i1.24546.
- Torrentera, N., R. Cerda, M. Cervantes, P. Garces, and W. Sauer. 2008. Relationship between blood plasma IGF-1 and GH concentrations and growth of Holstein steers. Asociación Latinoamericana de Producción Animal, 17 (1) :37-41.



H. Hasbi, Z. Ramadan, A. A. R. Hakim, and S. A. Sukri. 2024. Biological status, and heat tolerance of Holstein Friesian dairy lactation phases. Advances in Animal and Veterinary Sciences. 2034-2042. <https://dx.doi.org/10.17582/journal.aavs/2042>

- Hemoglobin (Hb) and Hematocrit (HCT) value in normal and cancer patients- An In-vitro Study Journal of Pharmaceutical Research International 33: 113-119. <https://doi.org/10.9734/JPRI/2021/v33i59B34359>
- Villalobos, G., R. P. Naveda, E. Navarro, R. Razz, G. S. Castillo, and A. Q. Moreno. 2002. The use of gliricidia sepium in the supplementary feeding of crossbred female calves. *Revista Científica*, 7 (5) : 384-387.
- Walker, W. L., W. B. Epperson, T. E. Wittum, L. K. Lord, P. J. Rajala-Schultz, and J. Lakritz. 2012. Characteristics of dairy calf ranches: Morbidity, mortality, antibiotic use practices, and biosecurity and biocontainment practices. *J. Dairy Sci.* 95:2204–2214
- Wang, J., J Li, F. Wang, J. Xiao, Y. Wang, H. Yang, S. Li, and Z. Cao. 2020. Heat stress on calves and heifers: a review. *Journal of Animal Science and Biotechnology*. 11: 79. <https://doi.org/10.1186/s40104-020-00485-8>
- Wang, S.Y., Cheng, Y.Y., Liu, S.C., Xu, Y.X., Gao, Y., Wang, C.L., et al. 2021. A synonymous mutation in IGF-1 impacts the transcription and translation process of gene expression. *Molecular Therapy - Nucleic Acids* 26:1446-1465. doi:10.1016/j.omtn.2021.08.007.
- Wati, N.S., Muthalib, R.A., Dianita, R. 2020. Kualitas fisik biskuit konsentrat mengandung indigofera dengan jenis dan konsentrasi bahan perekat berbeda. *Pastura* 9(2):82. doi:10.24843/pastura.2020.v09.i02.p06.
- Wichman, L. G., C. A. Redifer, A. R. R. Williams, N. B. Duncan, C. A. Payne, and A. M. Meyer. 2022. Effects of spring- versus fall-calving on perinatal nutrient availability and neonatal vigor in beef cattle. *Translation Animal Science*. 6:1–15. <https://doi.org/10.1093/tas/txac136>
- Wiersma, F. 1990. Temperature-humidity index table for dairy producers to estimate heat stress for dairy cows. Dept. Agric. Eng., Univ. Arizona, Tucson.
- Winarti, E., and A. Widyastuti. 2016. The effect of calf starter ration for pre-weaning ongole grade (PO) calves on body weight gain. *Journal of the Indonesian Tropical Animal Agriculture*, 41 (4) : 209-215.
- Yamano, H., H. H. T. Sugino, Y. Taguchi , N. Suzuki c, T. Etoh, Y. Inabu, Y. S. R. Fujino, dan H. Takahashi. 2023. Effect of Ca-octanoate supplementation on concentrations of ghrelin and ghrelin-related hormones in plasma and milk of beef cattle. *Heliyon*, 9 (1) :1-10.



A. A. Ahmad, P. Bao, X. Guo, R. Long, X. Ding, and P. Yan. Energy Levels Affect Growth Performance through Growth Ulin-Like Growth Factor 1 in Yak (*Bos grunniens*). *Animals*, 9

, A. Sameen, and M. Shahid. 2013. Physicochemical and amino whey. *Pakistan Journal of Nutrition*, 12 (5): 455-459.

<https://doi.org/10.3923/pjn.2013.455.459>

- Yu, K., F. Canalias, D. S. Oriol, L. Arroyo, R. Pato, Y. Saco, M. Terré, A. Bassols. 2019. Age-related serum biochemical reference intervals established for unweaned calves and piglets in the post-weaning period. *Frontiers Veterinari Science*. 6 (123): 1-12. <https://doi.org/10.3389/fvets.2019.00123>
- Zeng, J, J. Cai, D. Wang, H. Liu, H. Sun, J. Liu. 2023. Heat stress affects dairy cow health status through blood oxygen availability. *Journal of Animal Science and Biotechnology*. 14: 112. <https://doi.org/10.1186/s40104-023-00915-3>
- Zhang, H., X. Zhang, Z. Wang, X. Dong, C. Tan, H. Zou, Q. Peng, B. Xue, L. Wang, and G. Dong. 2015. Effects of dietary energy level on lipid metabolism-related gene expression in subcutaneous adipose tissue of Yellow breed × Simmental cattle. *Animal Science Journal*, 86 (1) : 392–400.
- Zhao, J., Zhang, Z., Zhang, S., Page, G., Jaworski, N.W. 2021. The role of lactose in weanling pig nutrition: a literature and meta-analysis review. *Journal of Animal Science and Biotechnology* 12(1):10. doi:10.1186/s40104-020-00522-6.



Optimized using
trial version
www.balesio.com