

DAFTAR PUSTAKA

- Adyatama, A., Arifin, M., & Laura, Y. (2021). Prevalensi dan Faktor Resiko Repeat *Breeding* Sapi Perah Pada Tingkat Peternak Di Kecamatan Ngablak Kabupaten Magelang. *Jurnal Pengembangan Penyuluhan Pertanian*, 18(31), 1–9.
- Agatha, A. A. L. C. P., Salsabilla, H. P., Azizah, U., Nicholas, Sugianto, Hidayat, I. R., Suwanditya, R. K., Harsanti, B. D., Afina, Rahmawati, D., Latifa, H., Sinuraya, R. K., Destiani, D. P., Adi, I., & Wicaksono. (2020). Hubungan Aktivitas Fisik Terhadap Jumlah Trombosit Dalam Darah Mahasiswa Shift D 2016 Fakultas Farmasi Universitas Padjadjaran. *Farmaka*, 17(3), 7–11.
- Agustina, I. P. S., Laksmi, D. N. D. I., Trilaksana, I. G. N. B., & Budiasa, M. K. (2021). Intensitas Estrus Sapi Bali yang Mengalami Silent Heat. *Buletin Veteriner Udayana*, 13(2), 113–117. <https://doi.org/10.24843/bulvet.2021.v13.i02.p01>
- Alkarithi, G., Duval, C., Yu Shi, F. L. M., & Ariëns, R. A. S. (2021). Thrombus Structural Composition in Cardiovascular Disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 41(9), 2370–2383. <https://doi.org/10.1161/ATVBAHA.120.315754>
- Amle, M., Patodkar, V., Shelar, R., & Birade, H. (2014). Serum Biochemical Levels of Repeat *Breeder* Cross Bred Cows under Rural Condition of Satara District of Maharashtra. *International Journal of Advanced Veterinary Science and Technology*, 3(1), 109–113. <https://doi.org/10.23953/cloud.ijavst.193>
- Aridya, N. D., Yuniarti, E., Atifah, Y., & Farma, S. A. (2023). The Differences Erythrocyte and Hemoglobin Levels of Biology Students and Sports Students Universitas Negeri Padang. *Jurnal Serambi Biologi*, 8(1), 38–43.
- Arya, D. (2023). Estrous synchronization in cattle , sheep and goat. *Multidiscip. Rev.*, 6(2022), 1–8.
- Asrar, S. I. N., Rimayanti Rimayanti, Ismudiono Ismudiono, Maslichah Mafruchati, Gandul Atik Yuliani, & Ginta Riady. (2023). Total protein, albumin, and globulin levels of blood serum in repeat *breeder* Holstein Friesian cows. *Ovozoa: Journal of Animal Reproduction*, 12(2), 90–98. <https://doi.org/10.20473/ovz.v12i2.2023.90-98>
- Atkins, C. G., Buckley, K., Blades, M. W., & Turner, R. F. B. (2017). Raman Spectroscopy of Blood and Blood Components. *Applied Spectroscopy*, 71(5), 767–793. <https://doi.org/10.1177/0003702816686593>
- Baliarti, E., Rozzaq, M. A., Warman, A. T., Bintara, S., Widi, T. S. M., Widayati, D. T., Atmoko, B. A., & Nugroho, T. (2023). Body morphometric characterization in conjunction with reproductive performance of Bali and Bali cross cattle in Indonesia. *Advances in Animal and Veterinary Sciences*, 11(6), 977–986.
- Bandai, K., Kusaka, H., Miura, H., Kikuchi, M., & Sakaguchi, M. (2020). A simple and practical short-term timed artificial insemination protocol using estradiol benzoate with prostaglandin F2 α in lactating dairy cows. *Theriogenology*, 141(1), 197–201. <https://doi.org/10.1016/j.theriogenology.2019.09.024>
- Barson, R. K., Padder, S., Sayam, A. S., Rahman, M. M., & Musharraf, M. (2019). Serum glucose , urea nitrogen , cholesterol , and total proteins in crossbred repeat *breeder* and normally cyclic cows. *J. Adv. Vet. Anim. Res*, 7710(3), 82–85.
- Benedet, A., Franzoi, M., Penasa, M., Pellattiero, E., & De Marchi, M. (2019). Prediction of blood metabolites from milk mid-infrared spectra in early-lactation cows. *Journal of Dairy Science*, 102(12), 11298–11307. <https://doi.org/10.3168/jds.2019-16937>
- Bihon, A., & Assefa, A. (2021). Cogent Food & Agriculture Prostaglandin based estrus synchronization in cattle: A review. *Cogent Food & Agriculture*, 7(1), 1–9. <https://doi.org/10.1080/23311932.2021.1932051>
- Bindari, Y. R., Shrestha, S., Shrestha, N., & Gaire, T. N. (2013). Effects of nutrition on

- reproduction- A review. *Pelagia Research Library Advances*, 4(1), 421–429.
- Blakely, J., & Bade., D. H. (1991). *Ilmu Peternakan*. Yogyakarta: Gadjah Mada University Press.
- Bruinjé, T. C., Morrison, E. I., Ribeiro, E. S., Renaud, D. L., Couto Serrenho, R., & LeBlanc, S. J. (2023). Postpartum health is associated with detection of estrus by activity monitors and reproductive performance in dairy cows. *Journal of Dairy Science*, 106(12), 9451–9473. <https://doi.org/10.3168/jds.2023-23268>
- Bunga, M. Y. ., Widi, A. Y. ., & Pandarangga, P. (2019). Profil Hematologi Dan Gambaran Morfologi Darah Sapi Bali (Bos Sundaicus) Yang Dipelihara Di Tempat Pembuangan Akhir Alak Kota Kupang. *Jurnal Veteriner Nusantara*, 2(2), 72–84.
- Campos-Gaona, R., Correa-Orozco, A., Salamanca-Carreño, A., & Vélez-Terranova, M. (2024). Index Development to Comprehensive Assess Liver Function during the Dairy Cows' Transition Period in Low-Tropic Conditions. *Animals*, 14(14), 1–11. <https://doi.org/10.3390/ani14142056>
- Carbonari, A., Burgio, M., Frattina, L., Cicirelli, V., & Rizzo, A. (2024). Repeat Breeder Syndrome Therapies in Dairy Cows: A Review. *Reproduction in Domestic Animals*, 59(10), 1–11. <https://doi.org/10.1111/rda.14732>
- Cattaneo, L., Lopreiato, V., Piccioli-Cappelli, F., Trevisi, E., & Minuti, A. (2021). Plasma albumin-to-globulin ratio before dry-off as a possible index of inflammatory status and performance in the subsequent lactation in dairy cows. *Journal of Dairy Science*, 104(7), 8228–8242. <https://doi.org/10.3168/jds.2020-19944>
- Cerutti, R. D., Scaglione, M. C., Arfuso, F., Giannetto, C., Giudice, E., & Piccione, G. (2021). Daily rhythm and seasonal variation of serum pancreatic alpha amylase in Holstein bovine maintained under natural environmental condition in Southern Hemisphere. *Large Animal Review*, 27(6), 299–303.
- Chacha, F., Bouzebda, Z., Gherissi, D., & Lamraoui, R. (2018). Effect of some blood metabolites on the conception risk of Montbeliard cows Effets de quelques métabolites sanguins sur les chances de conception de vaches Montbéliardes. *Livestock Research for Ural Development*, 30(5), 1–13.
- Clemmons, B. A., Ault-Seay, T. B., Henniger, M. T., Martin, M. G., Mulon, P. Y., Anderson, D. E., Voy, B. H., McLean, K. J., & Myer, P. R. (2023). Blood parameters associated with residual feed intake in beef heifers. *BMC Research Notes*, 16(1), 6–9. <https://doi.org/10.1186/s13104-023-06444-6>
- Cooke, R. F., Pohler, K. G., Vasconcelos, J. L. M., & Cerri, R. L. A. (2019). Estrous expression during a fixed-time artificial insemination protocol enhances development and interferon-tau messenger RNA expression in conceptuses from Bos indicus beef cows. *Animal, The International Journal of Animal Biosciences*, 13(11), 2569–2575. <https://doi.org/10.1017/S1751731119000636>
- Datrianto, D. S., Indarjulianto, S., Nururrozi, A., Paryuni, A. D., Jr, T. W. P., Adi, Y. K., & Egan, A. F. V. (2024). The Study of Body Condition Score and Macro Minerals on Fertile and Repeat Breeding Cattle in Ngaglik Sub-District. *Journal of Agriculture and Veterinary Sciences*, 11(03), 26–29. <https://doi.org/10.36347/sjavs.2024.v11i03.001>
- De Rensis, F., Dall'Olio, E., Gnemmi, G. M., Tummaruk, P., Andrani, M., & Saleri, R. (2024). Interval from Oestrus to Ovulation in Dairy Cows—A Key Factor for Insemination Time: A Review. *Veterinary Sciences*, 11(4), 1–14. <https://doi.org/10.3390/vetsci11040152>
- Faiq, M., Afif, N., Samsudewa, D., & Muktiani, D. A. (2023). Correlation Between Body Condition Score with Reproductive Disorders, Reproductive Performance and Estrus Performance in Beef Cattle. *Animal Production*, 25(3), 209–216.
- Freitas, C., Mada, U. G., & Mada, U. G. (2023). Blood Biochemical Profile in Madura Cows with Repeated Breeding. *International Journal of Innovative Science and*

Research Technology, 8(8), 2728–2731.

- Gaina, C. D., Sanam, M. U. E., Nalley, W. M. M., Benu, I., & Saputra, A. (2020). Blood AST and ALT profile of Sumba Ongole cattle. *ARSHI Veterinary Letters*, 4(1), 17–18. <https://doi.org/10.29244/avl.4.1.17-18>
- Guzel, S., & Tanriverdi, M. (2014). Comparison of serum leptin , glucose , total cholesterol and total protein levels in fertile and repeat breeder cows. *R. Brs. Zootec*, 43(12), 643–647.
- Hafid, H., Junaedi, Hetharia, C., Makmur, A., Ramaiyulis, Hambakodu, M., Kristanti, N. D., Maharani, N., Ridhana, F., Sujatmiko, Ina, Y. T., Zelpina, E., Widaningsih, N., Kurniasih, D., Sugiarto, M., Wijayanti, D. A., & Nurtanti., I. (2023). *Ternak Potong Teori dan Praktik*. Bandung: Widina Bhakti Persada Bandung.
- Hafizuddin, Husnurrisal, Thasmi, C. N., Herrialfian, Salsabil, N. L., Siregar, T. N., & Sutriana, A. (2024). Estrous characteristics and steroid concentrations in Aceh cows (*Bos indicus*) after estrus synchronization using prostaglandin F2 α . *Biodiversitas*, 25(1), 322–328. <https://doi.org/10.13057/biodiv/d250137>
- Handarini, R., Kurniawan, S., & Dihansih, E. (2017). Respons Estrus Sapi Resipien FH Yang Disinkronisasi Dengan Hormone GnRH, Esrogen, Progesteron Dan Prostaglandin. *Jurnal Pertanian*, 8(1), 16. <https://doi.org/10.30997/jp.v8i1.634>
- Hasnudi, Ginting, N., Hasanah, U., & Patriani, P. (2019). *Pengelolaan Ternak Sapi Potong*. Medan: CV. Anugrah Pangeran Jaya.
- Hermawansyah, Salido, W. L., Khaeruddin, Syamsuryadi, B., Nuraliah, S., Jannah, R., Mangalisu, A., Armayanti, A. K., Luthfi, N., Nisfimawardah, L., & Tribudi., Y. A. (2023). *Manajemen Ternak Sapi Potong*. Bandung: Indie Press.
- Hoesni, F., Firmansyah, F., Afzalani, A., & Farizal, F. (2022). Hubungan Kecukupan dan Mineral Pakan dengan Tingkat Kebuntingan Sapi Bali dan Perbedaannya antar Wilayah Dataran Tinggi, Sedang dan Rendah di Provinsi Jambi. *Jurnal Ilmiah Universitas Batanghari Jambi*, 22(1), 279. <https://doi.org/10.33087/jiubj.v22i1.2019>
- Jabar, M. A., Ramadhanti, S., Prita, S., & Purnamaningrum, D. (2023). Analisis Perbandingan Kadar Hemoglobin , Jumlah dan Struktur Eritrosit Pada Lima Kelas Vertebrata. *Life Science*, 12(2), 128–136.
- Jannah, R., Thasmi, C. N., Hamdan, H., & Siregar, T. N. (2020). Kinerja birahi pada sapi Aceh yang mengalami kawin berulang. *Ovozoa Journal of Animal Reproduction*, 9(2), 48. <https://doi.org/10.20473/ovz.v9i2.2020.48-52>
- Jung, M. Y., Kang, S., Lim, D.-H., Kim, T.-I., Lee, K., & Ha, S. (2021). Serum biochemical profiles of repeat breeder holstein friesian cows. *Korean Journal of Veterinary Science*, 44(4), 239–246.
- Kadhim, M. S., & Ali, B. H. A. (2019). Levels of some biochemical markers in sera of pregnant and non-pregnant lactating dairy cows in Baghdad , Iraq. *Iraqi Journal of Veterinary Sciences*, 33(2), 353–358.
- Kaneko, J. J., Harvey, J. W., & Bruss, M. L. (2008). *Appendixes In Clinical biochemistry of domestic animals 6th Edition*. San Diego, CA: Elsevier Academic Press.
- Kasimanickam, R., Harting, Q., & Hanson, R. (2025). Estrus and ovulation synchronization strategies in beef cattle. *Society for Theriogenology*, 17(1), 9–23.
- Khairita, L., Esfandiari, A., Widhyari, S. D., & Winarsih, W. (2021). The Effects Of Age On Biochemistry Profiles Of Aceh Cattle Blood. *Jurnal Kedokteran Hewan*, 15(3), 103–107.
- Kristanto, D., Widiyono, I., & Hartati, S. (2021). Blood metabolite parameters during the pregnancy and lactation of Brahman crossbred cows grazed under oil palm plantation in Kalimantan, Indonesia. *Journal of Animal Health and Production*, 9(3), 312–320.
- Kumar, A. S. (2014). Blood Biochemical Profile in Repeat Breeding Crossbred Dairy Cows. *International Journal of Veterinary Science*, 3(4), 172–173.

- Kusza, S., Bagi, Z., Astuti, P. K., Wanjala, G., Szenci, O., & Bajcsy, Á. C. (2025). Calcium Metabolism, Immunity and Reproduction in Early Postpartum Dairy Cows. *Animals*, 15(14), 1–14. <https://doi.org/10.3390/ani15142103>
- Lestari, A. I. (2019). Different Amount Of Thrombocytes On Blood Storage For 24 Hours In Room And Refrigerator. *Journal of Vocational Health Studies*, 03(2019), 59–62. <https://doi.org/10.20473/jvhs.V3I2.2019.59>
- Maimunah, Depison, & Wiyanto, E. (2021). Fitur Morfologi Secara Kuantitatif Sapi Bali Kecamatan Pamenang Dan Bangko Kabupaten Merangin. *Jurnal Peternakan Nusantara*, 7(1), 51–58.
- Manokaran, S., Selvaraju, M., Geetha, T., Palanisamy, M., Devipriya, K., & Periyannan, M. (2023). Comparative Study on Effect of Different Estrus Synchronization Protocols on the Pattern of Estrus, Conception Rate and Serum Hormonal Profile in Indigenous Kangayam Cows. *Indian Journal of Animal Research*, 57(2), 172–177. <https://doi.org/10.18805/IJAR.B-4680>
- Marbun, N. N., Ngangi, L. R., Paath, J. F., Turangan, S., Bujung, J. R., Peternakan, F., Sam, U., Manado, R., & Wori, K. (2023). Study kasus kawin berulang (repeat Breeding) pada sapi peranakan ongole di Kecamatan Wori , Kabupaten Minahasa Utara. *Zootec*, 43(2), 264–272.
- Mastuti, R., Setiawan, R., & Basriwijaya, K. M. Z. (2023). Factors Supporting The Success Of Artificial Insemination In Beef Cattle In East Langsa District Langsa City. *Jurnal Agribisnis Dan Ilmu Sosial Ekonomi Pertanian*, 8(3), 237–246.
- Maulana, R., Susetya, H., & Prihatno, S. A. (2022). Prevalence and risk factors associated with repeat Breeding of beef cattle in Sleman Regency , Indonesia. *Veterinary World*, 15(4), 870–877.
- Modi, I. c., Suthar, b. n., Sharma, v. k., Nakhashi, h. c., Panchasara, h. h., & Modi, F. (2017). Comparative Biochemical Profile Of Blood Serum And Estrual Mucus In Normal And Repeat Breeding Kankrej Cow. *Indian J. Anim. Hlth.*, 56(1), 53–58.
- Mulfristia, D., Riady, G., Saputra, H., Cut Nila Thasmi, Hafizuddin Hafizuddin, Mudhita Zikkrullah Ritonga, & Rosmaidar Rosmaidar. (2022). Determination of estrus duration based on cervical mucus characteristics in Aceh cattle using camera-equipped artificial insemination endoscope. *Ovozoa: Journal of Animal Reproduction*, 11(2), 59–65. <https://doi.org/10.20473/ovz.v11i2.2022.59-65>
- Nadiah Nurhaliza & Nurul Humaidah. (2023). Evaluasi Body Condition Score (BCS) Terhadap Kejadian Gangguan Reproduksi Sapi Peranakan Friesian Holstein (PFH). *Dinamika Rekayasa: Jurnal Ilmiah.*, 6(1), 95–103.
- Nigussie, T. (2018). A Review on the Role of Ener- gy Balance on Reproduction of Dairy Cow. *HSOA Journal of Dairy Research & Technology*, 1(003), 1–9. <https://doi.org/10.24966/DRT-9315/100003>
- Nozad, S., Ramin, A. G., & Moghaddam, G. (2014). Monthly evaluation of blood hematological , biochemical , mineral , and enzyme parameters during the lactation period in Holstein dairy cows. *Comp Clin Pathol*, 23(1), 275–281. <https://doi.org/10.1007/s00580-012-1607-2>
- Patel, D. N., Nakhashi, H. C., Chauhan, P. M., Sutaria, T. V, Chaudhari, A. I., Chaudhari, R. K., & Suthar, B. N. (2020). Hormonal Profile and Fertility Response to Modified Ovsynch Protocol in Repeat Breeding Crossbred Cows with Prolonged Estrus. *Ind J Vet Sci and Biotech*, 2–5.
- Pérez-Marín, C. C., & Quintela, L. A. (2023). Current Insights in the Repeat Breeder Cow Syndrome. *Animals*, 13(13), 2187. <https://doi.org/10.3390/ani13132187>
- Prihatno, S. A., Gustari, S., Kusumawati, A., Budiyanto, A., Setyawan, E. M. N., & Adi, Y. K. (2021). Pengaruh Pemberian GnRH pada Sapi Potong yang Mengalami Kawin Berulang (Repeat Breeding). *Jurnal Sain Veteriner*, 39(1), 79. <https://doi.org/10.22146/jsv.62761>

- Priyo, T. W., Setyawan, E. M. N., Nururrozi, A., & Indarjulianto, S. (2025). Perbandingan Protein Serum Sapi Potong Fertile dan Delayed Puberty. *Jurnal Sain Veteriner*, 43(1), 34. <https://doi.org/10.22146/jsv.70842>
- Purba, F. Y., Ayub, M., Putra, M. R. T., Sari, D. K., Nurdin, M. A., Ariyandy, A., Nur, M. M., Ismail, I., Gustina, S., & Yusuf, S. (2025). Hematological and serum biochemical profiles at the time of artificial insemination based on pregnancy outcomes in repeat breeder beef cows. *Open Veterinary Journal*, 15(6), 2602–2609. <https://doi.org/10.5455/OVJ.2025.v15.i6.31>
- Raboisson, D., Albaaj, A., Nonne, G., & Foucras, G. (2017). High urea and pregnancy or conception in dairy cows: A meta-analysis to define the appropriate urea threshold. *Journal of Dairy Science*, 100(9), 7581–7587. <https://doi.org/10.3168/jds.2016-12009>
- Ramandani, D., & Nururrozi, A. (2015). Kadar Glukosa dan Total Protein Plasma pada Sapi yang Mengalami Kawin Berulang di Wilayah Daerah Istimewa Yogyakarta. *Sain Veteriner*, 33(1), 23–28.
- Rauthan, A., & Negi, A. (2022). Artificial insemination in cattle. *International Journal of Veterinary Sciences and Animal Husbandry* 2022; 7(1), 5–8.
- Ricci, A., Gallo, S., Banchi, P., Santhia, M., Starvaggi Cucuzza, A., & Vincenti, L. (2022). Creatine kinase as marker for purulent vaginal discharge and fertility in beef cattle: Using creatine kinase to diagnose purulent vaginal discharge. *Italian Journal of Animal Science*, 21(1), 422–429. <https://doi.org/10.1080/1828051X.2022.2031318>
- Robbaani, M., Nurlayasari, I., & Wahjuningsih, S. (2024). Comparison of Embryo Production between Simmental and Limousin Cattle in Different Seasons at Cipelang Cattle Embryo Center. *Tarjih Tropical Livestock Journal*, 04(02), 95–106. <https://doi.org/10.47030/trolj.v4i2.865>
- Rofiqi, M. M., Saputro, A. L., & Praja, R. N. (2023). Risk Factors Causing Repeat Breeding Reproductive Disorders in Beef Cattle in Klabang Sub-District, Bondowoso Regency. *Journal of Basic Medical Veterinary*, 12(2), 73–80. <https://doi.org/10.20473/jbm.v12i2.48037>
- Saloxiddinovna, X. Y. (2024). Clinical Morphological Criteria Of Leukocytes. *Лучшие Интеллектуальные Исследования.*, 14(4), 159–167.
- Sammad, A., Khan, M. Z., Abbas, Z., Hu, L., Ullah, Q., Wang, Y., Zhu, H., & Wang, Y. (2022). Major Nutritional Metabolic Alterations Influencing the Reproductive System of Postpartum Dairy Cows. *Metabolites*, 12(60), 1–21.
- Seminara, J. A., Callero, K. R., Frost, I. R., Martinez, R. M., McCray, H. A., Reid, A. M., Seely, C. R., Barbano, D. M., & McArt, J. A. A. (2023). Calcium dynamics and associated temporal patterns of milk constituents in early-lactation multiparous Holsteins. *Journal of Dairy Science*, 106(10), 7117–7130. <https://doi.org/10.3168/jds.2022-23142>
- Sinda, S. M. W., Hine, T. M., & Nalley, W. M. (2017). Tampilan Estrus Dan Tingkat Keberhasilan Inseminasi Buatan Kambing Kacang Yang Diinduksi Menggunakan Prostaglandin F2 α (EstronTM Bioveta) Dengan Dosis Yang Berbeda. *Jurnal Nukleus Peternakan*, 4(2), 163–172.
- Subagyo, D. (2018). Pengetahuan Peternak Tentang Estrus Pada Sapi Aceh Dengan Terjadinya Repeat Breeding Di Kabupaten Pidie. *Jurnal Agroristek*, 1(1), 1–3.
- Sumadiasa, I. W. L., Zaenuri, L. A., Lukman, L., Yuliani, E., & Dradjat, A. S. (2024). Reproductive Performance Of Female Bali Cattle In The Extensive And Semi-Intensive Rearing System. *Journal of Agriculture and Veterinary Science (IOSR-JAVS)*, 17(6), 10–17. <https://doi.org/10.9790/2380-1706011017>
- Tarigan, I. M., Bilyaro, W., & Lestari, D. (2022). Status Kesehatan Reproduksi Sapi Perah Di Koperasi Serba Usaha (KSU) Tandangsari, Kecamatan Tanjungsari, Kabupaten Sumedang, Jawa Barat Daily. *Journal of Agriculture and Animal Science*, 2(2), 66–

78.

- Taru, M., Katoh, T., Koshimizu, K., Kuribayashi, S., Miura, R., Hamano, S., & Shirasuna, K. (2024). Inflammatory uterine microenvironment in long-term infertility repeat breeder cows compared with normal fertile cows. *Veterinary and Animal Science*, 25, 100369. <https://doi.org/10.1016/j.vas.2024.100369>
- Thasmi, C. N., Akmal, M., Wahyuni, S., Siregar, T. N., Reproduksi, L., Histologi, L., Anatomi, L., Hewan, F. K., Kuala, U. S., & Aceh, B. (2021). Profil Biokimia Darah Sapi Aceh yang Mengalami Kawin Berulang. *Jurnal Veteriner*, 22(36), 26–32. <https://doi.org/10.19087/jveteriner.2021.22.1.26>
- Thasmi, C. N., Husnurrisal, H., Akmal, M., Wahyuni, S., & Siregar, T. (2021). Blood Biochemical Profile in Repeat Breeding Crossbred Dairy Cows. *International Journal of Veterinary Science*, 3(4), 172–173. <https://doi.org/10.19087/jveteriner.2021.22.1.26>
- Thasmi, C. N., Siregar, T. N., Wahyuni, S., Aliza, D., Hamdan, H., Panjaitan, B., Asmilia, N., & Husnurrijal, H. (2017). Estrus Performance and Steroid Level of Repeat Breeding Aceh Cattle Synchronized With Pgf2 α . *Veterinaria*, 66(1), 36–41.
- Tiwari, I., Shah, R., Kaphle, K., & Gautam, M. (2019). Treatment Approach of Different Hormonal Therapy for Repeat Breeding Dairy Animals in Nepal. *Arch Vet Sci Med*, 2(3), 28–40. <https://doi.org/10.26502/avsm.007>
- Villar, S. L., Pérez-Marín, C. C., Álvarez, J., Acción, A., Barrionuevo, R., Becerra, J. J., Peña, A. I., Herradón, P. G., Quintela, L. A., & Yáñez, U. (2025). A Prospective Study of the Prevalence and Predictive Risk Factors of Repeat Breeder Syndrome in Dairy Cattle in the North of Spain. *Animals*, 15(2), 1–12. <https://doi.org/10.3390/ani15020266>
- Wächter, S., Cohrs, I., Golbeck, L., Scheu, T., Eder, K., & Grünberg, W. (2022). Effects of restricted dietary phosphorus supply during the dry period on productivity and metabolism in dairy cows. *Journal of Dairy Science*, 105(5), 4370–4392. <https://doi.org/10.3168/jds.2021-21246>
- Wang, S., Pang, Y., Wang, L., Wang, Q., Chen, Z., Li, C., Li, F., Zhang, G., Wang, X., Gao, S., & Xu, X. (2024). Differences in Lipid Metabolism between the Perirenal Adipose Tissue of Chinese Simmental Cattle and Angus Cattle (*Bos taurus*) Based on Metabolomics Analysis. *Animals*, 14(2536), 1–12.
- Widayati, D. T., Maulida, N., & Adiarto. (2017). Blood Biochemical Profile of Repeated Breeding Friesian Holstein Grade Cows in The Dairy Processing Unit Faculty of Animal Science Gadjah. *Agricultural and Food Sciences*, 2(3), 743–747.
- Wnorowska, K., Mlynek, K., & Puppel, K. (2024). The Impact of Negative Energy Balance in Holstein-Friesian Cows on the Blood Concentrations of Interleukin-6 and Plasminogen. *Metabolites*, 14(10), 1–14. <https://doi.org/10.3390/metabo14100548>
- Yanuartono, Nururrozi, A., Soedarmanto, Indarjulianto, & Purnamaningsih, H. (2016). Peran Makromineral pada Reproduksi Ruminansia. *Jurnal Sain Veteriner*, 34(2), 155–165.
- Yizengaw, L. (2017). International Journal of Advanced Research in Biological Sciences Review on Estrus Synchronization and Its Application in Cattle. *International Journal of Advanced Research in Biological Sciences*, 4(4), 67–76. <https://doi.org/10.22192/ijarbs>
- Yousuf, M. (2021). Challenges and Opportunities of Artificial Insemination on Dairy Cattle in Ethiopia. *Publindo Akademika*, 1(2), 47–54.
- Yu, K., Canalias, F., Solà-oriol, D., Arroyo, L., Pato, R., Saco, Y., Terré, M., Bassols, A., & Warren, A. L. (2019). Age-Related Serum Biochemical Reference Intervals Established for Unweaned Calves and Piglets in the Post-weaning Period. *Frontiers in Veterinary Science*, 6(4), 1–12. <https://doi.org/10.3389/fvets.2019.00123>
- Yusuf, M., Rahim, L., Asja, M. A., & Wahyudi, A. (2012). The Incidence of Repeat

- Breeding in Dairy Cows under Tropical Condition. Media Peternakan*, 35(1), 28–31.
<https://doi.org/10.5398/medpet.2012.35.1.28>
- Zhang, M., Li, G., Wang, D., Wang, S., Du, H., Lan, R., Xu, Y., Liu, H., & Li, Y. (2025). Effects of α -amylase supplementation on production performance, blood metabolites, nutrient digestibility, and rumen fermentation parameters of Holstein dairy cows in late lactation. *Frontiers in Veterinary Science*, 12(1), 1–11.
<https://doi.org/10.3389/fvets.2025.1629571>