

## DAFTAR PUSTAKA

- Abdullah, M. A. N., R. R. Noor, H. Martojo, D. D. Solihin, dan E. Handiwirawan. 2007. Keragaman fenotipik sapi aceh di Nanggroe Aceh Darussalam. *Jurnal Indonesia Tropical Animal Agricultur*. 32(2): 11–21.
- Abdullah, M. dan A. Nashri. 2008. Karakteristik Genetik Sapi Aceh Menggunakan Analisis Keragaman Fenotipik, Daerah D-Loop DNA Mitokondria dan DNA Mikrosatelit. Disertasi. Sekolah Pascasarjana Institut Pertanian Bogor. Bogor.
- Adi, D. S., D. W. Harjanti dan R. Hartanto. 2020. Evaluasi konsumsi protein dan energi terhadap produksi susu sapi perah awal laktasi. *Jurnal Peternakan Indonesia (Indonesian Journal of Animal Science)*. 22(3):292. <https://doi.org/10.25077/jpi.22.3.292-305.2020>
- Adiwimarta, K. I. 2021. *Nutrisi Ruminansia: Kepentingan Energi dan Protein*. UGM Press. Yogyakarta
- Anderson, M. V. dan M. D. Rutherford. 2013. Evidence of a nesting psychology during human pregnancy. *Evolution and Human Behavior*. 34(6):390–397. <https://doi.org/10.1016/j.evolhumbehav.2013.07.002>
- Badan Pusat Statistik (BPS). 2023. *Peternakan dalam Angka 2023*. Diakses dari <https://www.bps.go.id/id/publication/2023/12/22/5927b06e1dcde219f76cec59/peternakan-dalam-angka-2023.html>. Diakses pada tanggal 11 Mei 2024.
- Bahri, S. 2017. *Mengenal Sapi Aceh dan Karakteristiknya*. Diakses dari <http://bptu-hptindrapuri.com>. Diakses pada tanggal 26 Mei 2024.
- Barfield, C. H., Z. Tang-Martinez, dan J. M. Trainer. 1994. Domestic calves (*bos taurus*) recognize their own mothers by auditory cues. *Ethology*. 97(4): 257–264. <https://doi.org/10.1111/j.1439-0310.1994.tb01045.x>
- Bordi, F., dan J. E. LeDoux. 1994. Response properties of single units in areas of rat auditory thalamus that project to the amygdala. *Experimental Brain Research*. 98(2): 275–286. <https://doi.org/10.1007/BF00228415>
- BPTU-HPT Indrapuri. 2017. *Profil Sejarah BPTU-HPT Indrapuri*. Diakses dari <https://bptuhptindrapuri.ditjenpkh.pertanian.go.id/site/index.php/profile/profile-sejarah>. Diakses pada tanggal 26 Mei 2024.

- Buddenberg, B. J., C. J. Brown, Z. B. Johnson, dan R. S. Honea. 1986. Maternal behavior of beef cows at parturition. *Journal of Animal Science*. 62(1): 42–46. <https://doi.org/10.2527/jas1986.62142x>
- Chenoweth, P. J., A. J. Landaeta-Hernández, dan C. Flöercke. 2014. Reproductive and maternal behavior of livestock. In *Genetics and the Behavior of Domestic Animals*. 159–194. <https://doi.org/10.1016/B978-0-12-394586-0.00005-6>
- Dubey, P., R. R. Singh, S. S. Choudhary, K. K. Verma, A. Kumar, P. M. Gamit, S. Dubey, dan K. Prajapati. 2018. Post parturient neonatal behaviour and their relationship with maternal behaviour score, parity and sex in Surti buffaloes. *Journal of Applied Animal Research*. 46(1): 360–364. <https://doi.org/10.1080/09712119.2017.1306533>
- Duffy, J. H., V. Sloss, dan D. M. Giessen. 1977. Anoxia in the bovine foetus. *Australian Veterinary Journal*. 53(6): 262–267. <https://doi.org/10.1111/j.1751-0813.1977.tb00211.x>
- Edwards, S. A. 1983. The behaviour of dairy cows and their newborn calves in individual or group housing. *Applied Animal Ethology*. 10(3): 191–198. [https://doi.org/10.1016/0304-3762\(83\)90140-2](https://doi.org/10.1016/0304-3762(83)90140-2)
- Edwards, S. A., dan D. M. Broom. 1982. Behavioural interactions of dairy cows with their newborn calves and the effects of parity. *Animal Behaviour*. 30(2): 525–535. [https://doi.org/10.1016/S0003-3472\(82\)80065-1](https://doi.org/10.1016/S0003-3472(82)80065-1)
- Furber, D. 2015. Scoring Newborn Calf Vitality. Diakses dari <https://www.canadiancattlemen.ca/features/scoring-newborn-calf-vitality/>. Diakses pada 13 Oktober 2023.
- Grant Dewell. 2019. Calving Management Manual. Diakses dari <https://www.iowabeefcenter.org/calving/dystocia.html#:~:text=Meconium%20is%20the%20fecal%20material,the%20calf%20will%20turn%20yellow>. Diakses pada 3 Juli 2024.
- Green, A. C., L. M. Lidfors, S. Lomax, L. Favaro, dan C. E. F. Clark. 2021. Vocal production in postpartum dairy cows: temporal organization and association with maternal and stress behaviors. *Journal of Dairy Science*. 104(1): 826–838. <https://doi.org/10.3168/jds.2020-18891>
- HSA. 2011. Guidance on the Safe Handling of Cattle on Farms. Health and Safety Authority, Ireland.
- Hermann, E. dan N. Stenum. 1982. Mother–calf behaviour during the first six hours after parturition. In: Signoret, J.P. (Ed.), *Current Topics in*

Veterinary Medicine and Animal Science. Welfare and Husbandry of Calves, Martinus Nijhoff Publishers, The Hague. 19:3–23.

Hogan, L. A., M. R. McGowan, S. D. Johnston, A. T. Lisle, dan K. Schooley. 2022. Suckling behaviour of beef calves during the first five days postpartum. *Ruminants*. 2(3): 321–340. <https://doi.org/10.3390/ruminants2030022>

Kara, K. N. 2020. Relation between non-infectious factors and neonatal calf health status in dairy herd. *Animal Science Journal*. 91(1):1–6. <https://doi.org/10.1111/asj.13471>

Kachhawaha, S., D. Singh, dan B. K. Mathur. 2021. Scientific Management and Feeding of Calf and Heifer. In *Horticulture Based Integrated Farming Systems*. CRC Press. America.

Kementrian Pertanian. 2011. Sub-Sektor Peternakan. Diakses dari <http://www.pertanian.go.id>. Diakses pada tanggal 11 Mei 2024.

Kristal, M. B. 1980. Placentophagia: A biobehavioral enigma (or De gustibus non disputandum est). *Neuroscience & Biobehavioral Reviews*. 4(2): 141–150. [https://doi.org/10.1016/0149-7634\(80\)90012-3](https://doi.org/10.1016/0149-7634(80)90012-3)

Kristal, M. B., J. M. DiPirro, dan A. C. Thompson. 2012. Placentophagia in humans and nonhuman mammals: causes and consequences. *Ecology of Food and Nutrition*. 51(3): 177–197. <https://doi.org/10.1080/03670244.2012.661325>

Kristal, M. B., J. M. DiPirro, A. C. Thompson, dan T. D. Wood. 2023. Placentophagia and the Tao of POEF. *Neuroscience and Biobehavioral Reviews*. 145. <https://doi.org/10.1016/j.neubiorev.2022.104992>

Le Neindre, P. 1989. Influence of cattle rearing conditions and breed on social relationships of mother and young. *Applied Animal Behaviour Science*. 23(1–2): 117–127. [https://doi.org/10.1016/0168-1591\(89\)90012-9](https://doi.org/10.1016/0168-1591(89)90012-9)

Le Neindre, P. dan P. D'Hour. 1989. Effects of a postpartum separation on maternal responses in primiparous and multiparous cows. *Animal Behaviour*. 37: 166–168. [https://doi.org/10.1016/0003-3472\(89\)90023-7](https://doi.org/10.1016/0003-3472(89)90023-7)

Lewis, R. 2017. Meconium Staining of Newborn Calves is a Red Flag. Diakses dari <https://www.canadiancattlemen.ca/livestock/beef-cattle/cow-calf/meconium-staining-of-newborn-calves-is-a-red-flag/#:~:text=The%20meconium%20is%20considered%20pretty,both>

*%20the%20cow%20and%20calf*. Diakses pada tanggal 3 Juli 2024.

- Lewis, R. 2023. Low Body Condition Scores Can Put Cows' Health At Risk. Diakses dari <https://www.producer.com/livestock/low-body-condition-scores-can-put-cows-health-at-risk/>. Diakses pada 3 Juli 2024.
- Lidfors, L. M. 1996. Behavioural effects of separating the dairy calf immediately or 4 days post-partum. *Applied Animal Behaviour Science*. 49(3): 269–283. [https://doi.org/10.1016/0168-1591\(96\)01053-2](https://doi.org/10.1016/0168-1591(96)01053-2)
- Lidfors, L. M., D. Moran, J. Jung, P. Jensen, dan H. Castren. 1994. Behaviour at calving and choice of calving place in cattle kept in different environments. *Applied Animal Behaviour Science*. 42(1): 11–28. [https://doi.org/10.1016/0168-1591\(94\)90003-5](https://doi.org/10.1016/0168-1591(94)90003-5)
- Lopes, M. G., A. S. Alharthi, V. Lopreiato, E. Abdel-Hamied, Y. Liang, D. N. Coleman, H. Dai, M. N. Corrêa, C. Fernandez, dan J. J. Loor. 2021. Maternal body condition influences neonatal calf whole-blood innate immune molecular responses to ex vivo lipopolysaccharide challenge. *Journal of Dairy Science*. 104(2): 2266–2279. <https://doi.org/10.3168/jds.2020-18948>
- Lott, D. F. dan J. C. Galland. 1985. Parturition in american bison: precocity and systematic variation in cow isolation. *Zeitschrift Für Tierpsychologie*. 69(1): 66–71. <https://doi.org/10.1111/j.1439-0310.1985.tb00757.x>
- Machado L. C. P, J. F. Hurnik, dan G. J. King. 1997. Timing of the attraction towards the placenta and amniotic fluid by the parturient cow. *Applied Animal Behaviour Science*. 53(3): 183–192. [https://doi.org/10.1016/S0168-1591\(96\)01158-6](https://doi.org/10.1016/S0168-1591(96)01158-6)
- Marchant, J. N., R. M. Marchant-Forde, dan D. M. Weary. 2002. Responses of dairy cows and calves to each other's vocalisations after early separation. *Applied Animal Behaviour Science*. 78(1): 19–28. [https://doi.org/10.1016/S0168-1591\(02\)00082-5](https://doi.org/10.1016/S0168-1591(02)00082-5)
- Matamala, F., A. Strappini, dan P. Sepúlveda-Varas. 2021. Dairy cow behaviour around calving: Its relationship with management practices and environmental conditions. *Austral Journal of Veterinary Sciences*. 53(1): 9–22. <https://doi.org/10.4067/S0719-81322021000100009>
- Mirza, I. dan W. Rahayu. 2017. Model Pengembangan Kawasan peternakan sapi aceh di kabupaten Aceh jaya propinsi Aceh. *Jurnal Peternakan Indonesia (Indonesian Journal of Animal Science)*. 19(3): 156–164. <https://doi.org/10.25077/jpi.19.3.152-160.2017>

- Mrode, R. A. dan I. Pocrnic. 2023. Maternal trait models: Animal and reduced animal models. In Linear Models for the Prediction of the Genetic Merit of Animals. <https://doi.org/10.1079/9781800620506.0008>
- Murray-Kerr, C. F., K. E. Leslie, S. M. Godden, W. A. Knauer, dan S. M. McGuirk. 2018. Development of a newborn calf vigor scoring system. American Association of Bovine Practitioners Conference Proceedings. 283. <https://doi.org/10.21423/aabppro20183216>
- Nevard, R. P., S. D. Pant, J. C. Broster, S. T. Norman, dan C. P. Stephen. 2022. Maternal behavior in beef cattle: the physiology, assessment and future directions—a review. Veterinary Sciences. 10(1): 10. <https://doi.org/10.3390/vetsci10010010>
- Nowak, R., H. Porter Richard, L. Frédéric, O. Pierre, dan S. Benoist. 2000. Role of mother–young interactions in the survival of offspring in domestic mammals. Reviews of Reproduction. 5: 153–163.
- Orihuela, A. dan C. S. Galina. 2021. The effect of maternal behavior around calving on reproduction and wellbeing of zebu type cows and calves. Animals. 11(11): 3164. <https://doi.org/10.3390/ani11113164>
- Orihuela, A., L. Pérez-Torres, dan R. Ungerfeld. 2020. The time relative to parturition does not affect the behavioral or aggressive reactions in Zebu cows (*Bos indicus*). Livestock Science. 234: 103978. <https://doi.org/10.1016/j.livsci.2020.103978>
- Owens, J. L., T. N. Edey, B. M. Bindon, dan L. R. Piper. 1985. Parturient behaviour and calf survival in a herd selected for twinning. Applied Animal Behaviour Science. 13(4): 321–333. [https://doi.org/10.1016/0168-1591\(85\)90012-7](https://doi.org/10.1016/0168-1591(85)90012-7)
- Pérez-Torres, L., A. Orihuela, M. Corro, I. Rubio, A. Cohen, dan C. S. Galina. 2014. Maternal protective behavior of zebu type cattle (*Bos indicus*) and its association with temperament1. Journal of Animal Science. 92(10): 4694–4700. <https://doi.org/10.2527/jas.2013-7394>
- Pires, B. V., L. A. de Freitas, G. V. da Silva, G. G. Mendonça, R. P. Savegnago, M. L. P. de Lima, L. El Faro, J. N. dos Santos Gonçalves Cyrillo, dan C. C. P. de Paz. 2020. Maternal-offspring behavior of guzerat beef cattle. Pesquisa Agropecuaria Brasileira. 55. <https://doi.org/10.1590/S1678-3921.PAB2020.V55.01504>
- Poindron, P. 2005. Mechanisms of activation of maternal behaviour in mammals. Reproduction Nutrition Development. 45(3): 341–351. <https://doi.org/10.1051/rnd:2005025>

- Roche, J. R., N. C. Friggens, J. K. Kay, M. W. Fisher, K. J. Stafford, dan D. P. Berry. 2009. Invited review: Body condition score and its association with dairy cow productivity, health, and welfare. *Journal of Dairy Science*. 92(12): 5769–5801. <https://doi.org/10.3168/jds.2009-2431>
- Romjali, E. 2019. Local beef cattle breeding program in Indonesia. *Indonesian Bulletin of Animal and Veterinary Sciences*. 28(4): 199. <https://doi.org/10.14334/wartazoa.v28i4.1813>
- Rørvang, M. V., B. L. Nielsen, M. S. Herskin, dan M. B. Jensen. 2018. Prepartum maternal behavior of domesticated cattle: A comparison with managed, feral, and wild ungulates. *Frontiers in Veterinary Science*. 5. <https://doi.org/10.3389/fvets.2018.00045>
- Selman, I. E., A. D. McEwan, dan E. W. Fisher. 1970. Studies on natural suckling in cattle during the first eight hours post partum I. Behavioural studies (dams). *Animal Behaviour*. 18: 276–283. [https://doi.org/10.1016/S0003-3472\(70\)80038-0](https://doi.org/10.1016/S0003-3472(70)80038-0)
- Shen, L.-H., L. Fan, Y. Zhang, Y. Shen, Z.-T. Su, G.-N. Peng, J.-L. Deng, Z.-J. Zhong, X.-F. Wu, S.-M. Yu, S.-Z. Cao, dan X.-L. Zong. 2022. Antioxidant capacity and protective effect of cow placenta extract on d-galactose-induced skin aging in mice. *Nutrients*. 14(21): 4659. <https://doi.org/10.3390/nu14214659>
- Sofyan, H., E. Sudarnika, A. S. Satyaningtijas, C. Sumantri, dan S. Agungpriyono. 2020. The Economic Potential of Aceh Cattle Based on Its Farmers, Traders, and Consumers Perspective. *Frontiers in Sustainability*, 1. <https://doi.org/10.3389/frsus.2020.546177>
- Stěhulová, I., M. Špinka, R. Šárová, L. Máchová, R. Kněz, dan P. Firla. 2013. Maternal behaviour in beef cows is individually consistent and sensitive to cow body condition, calf sex and weight. *Applied Animal Behaviour Science*. 144(3–4): 89–97. <https://doi.org/10.1016/j.applanim.2013.01.003>
- Sukandar, A., B. P. Purwanto, dan A. Anggraeni. 2008. Keragaan Body Condition Score dan Produksi Susu Sapi Perah Friesian-Holstein Di Peternakan Rakyat KPSBU Lembang, Bandung. Seminar Nasional Teknologi Teknologi Peternakan dan Veteriner. Fakultas Peternakan. Institut Pertanian Bogor. Bogor
- Syukriani, D., I. Irda, dan D. Kurnia. 2022. Ilmu Ternak Perah. Politeknik Pertanian Negeri Payakumbuh. Sumatera Barat.



- Torre, M. P. D. L., E. F. Briefer, T. Reader, dan A. G. McElligott. 2015. Acoustic analysis of cattle (*Bos taurus*) mother–offspring contact calls from a source–filter theory perspective. *Applied Animal Behaviour Science*. 163: 58–68. <https://doi.org/10.1016/j.applanim.2014.11.017>
- Veissier, I., A. Boissy, R. Nowak, P. Orgeur, dan P. Poindron. 1998. Ontogeny of social awareness in domestic herbivores. *Applied Animal Behaviour Science*. 57(3–4): 233–245. [https://doi.org/10.1016/S0168-1591\(98\)00099-9](https://doi.org/10.1016/S0168-1591(98)00099-9)
- Von Keyserlingk, M. A. G. dan D. M. Weary. 2007. Maternal behavior in cattle. *Hormones and Behavior*. 52(1): 106–113. <https://doi.org/10.1016/j.yhbeh.2007.03.015>
- Watts, J.M. 2001. Vocal Behaviour as an Indicator of Welfare in Cattle. PhD thesis. Univ. of Sask., Saskatoon, SA.
- Watts, J. M. dan J. M. Stookey. 2000. Vocal behaviour in cattle: the animal's commentary on its biological processes and welfare. *Applied Animal Behaviour Science*. 67(1–2): 15–33. [https://doi.org/10.1016/S0168-1591\(99\)00108-2](https://doi.org/10.1016/S0168-1591(99)00108-2)
- Weary, D. M. dan B. Chua. 2000. Effects of early separation on the dairy cow and calf. *Applied Animal Behaviour Science*. 69(3): 177–188. [https://doi.org/10.1016/S0168-1591\(00\)00128-3](https://doi.org/10.1016/S0168-1591(00)00128-3)
- Wehrend, A., E. Hofmann, K. Failing, dan H. Bostedt. 2006. Behaviour during the first stage of labour in cattle: Influence of parity and dystocia. *Applied Animal Behaviour Science*. 100(3–4): 164–170. <https://doi.org/10.1016/j.applanim.2005.11.008>
- Whalin, L., D. M. Weary, dan M. A. G. von Keyserlingk. 2021. Understanding behavioural development of calves in natural settings to inform calf management. *Animals*. 11(8): 2446. <https://doi.org/10.3390/ani11082446>
- Widyaningrum, R., I. G. S. Budisatria, A. Fathoni, dan D. Maharani. 2021. Profile and population dynamics of Aceh cattle in livestock breeding and forage centre, Indrapuri. *IOP Conference Series: Earth and Environmental Science*. 667(1). <https://doi.org/10.1088/1755-1315/667/1/012033>
- Yanuartono, Y., D. Ramandani, A. Nururrozi, dan S. Indarjulianto. 2022. Importance of colostrum for calf health and development: a brief review. *Jurnal Sain Peternakan Indonesia*. 17(1): 1–13. <https://doi.org/10.31186/jspi.id.17.1.1-13>