

DAFTAR PUSTAKA

- Abascal, K. and E. Yarnell. 2008. Botanical Galactagogues. *Altern. Complement. Ther.*: 14(6): 288-294.
- Abdullah, L. 2010. Herbage Production and Quality of Shrub *Indigofera* Treated by Different Concentration of Foliar Fertilizer. *Media Peternakan*. Edisi Desember: 169-175.
- Adema, F. 2011. Notes on Malesian *Fabaceae* (*Leguminosae- Papilionoideae*) 15. notes on *Indigofera*. *Blumea* 56: 270-272.
- Agustina, T. 2016. *Outlook Komoditas Pertanian Subsektor Peternakan: Susu. Pusat Data dan Sistem Informasi Pertanian*. Sekretariat Jenderal, Kementerian Pertanian.
- Al-Ghamdi, F. A. 2011. "Seed Morphology of Some Species of *Indigofera* (*Fabaceae*) from Saudi Arabia (Identification of Species and Systematic Significance)". *American Journal of Plant Science*. 2: 484-495.
- Allen O. N. and Allen E. K. (1981) *Inleguminosae. A source book of characteristics, uses and Nodulation*.
- Allen, L. V. 2000. *Pharmaceutical Compounding-Nonsteril Preparations*. United States Pharmacopeia Chapter 795. *Secundum Artem*. USA.
- Allen, O. N. and E. K. Allen. 1981. In: *The leguminosae. A source book of characteristics, uses and nodulation*. Univ. of Wisconsin Press. Macmillan.
- Amarowicz, R. and R. B. Pegg. 2008. Legumes as source of natural antioxidants. *European Journ. of Lipid Sci. and Tech.*110(10): 865-878.
- Amirav, A., A. B. Fialkov, and T. Alon. 2013. What can be improved in GC-MS—when multi benefits can be transformed into a GC-MS revolution. *International Journal of Analytical Mass Spectrometry and Chromatography*, 2013, 1, 31-47.
- Anonim. 2016. *Outlook Komoditas Pertanian Subsektor Peternakan Susu. Pusat Data dan Sistem Informasi Pertanian*. Sekretariat Jenderal, Kementerian Pertanian.
- AOAC.1993.Official methods of Analysis 16th Ed.Association of Official Analytical chemist,inc Arlington,Virginia.USA
- Apata, D. F. and A. D. Ologhobo. 1997. Trypsin inhibitor and other anti-nutritional factors in tropical legume seeds. *Tropical Science*. 37(1): 52-59.
- Aremu MO, Olaofe O and Akintayo ET (2007). Functional properties of some Nigerian varieties of legume seed flours and flour concentration effect on foaming and gelation properties. *J Food Tech* 5(2): 109 – 113.
- Aremu, M. O., O. Olaofe and E. T. Akintayo. 2006. A comparative study on the chemical and amino acid composition of some Nigerian under-utilized legume flours. *Pak J Nutri* 5(1): 34 – 38.
- Arukwe, A. 2001. Cellular and molecular responses to endocrine-modulators and the impact on fish reproduction. *Mar Pollut Bull*. 42: 643-655.

- Aschenbach, J. R., B. Niels, Kristensen, S. Shawn, Donkin, H. M. Hammon, and G. B. Penner. Gluconeogenesis in Dairy Cows: The Secret of Making Sweet Milk from Sour Doug. *IUBMB Life*, 62(12): 869–877, December 2010.
- Aschenbach, J. R., H. Wehning, M. Kurze, E. Schaberg, H. Nieper, H., G. Burckhardt, and G. Gaebel. 2000. Functional and molecular biological evidence of SGLT-1 in the ruminal epithelium of sheep. *Am. J. Physiol. Gastrointest. Liver Physiol.* 279, G20–G27.
- Atun, S. 2014. Metode Isolasi dan Identifikasi Struktur Senyawa Organik Bahan Alam. *Jurnal Konservasi Cagar Budaya Borobudur*. 8(2): 53-61.
- Badgujar, S. B., V. V. Patel, and A. H. Bandivdekar. *Foeniculum vulgare Mill: A Review of Its Botany, Phytochemistry, Pharmacology, Contemporary Application, and Toxicology*. Hindawi Publishing Corporation, BioMed Research International, Volume 2014, Article ID 842674, 32 pages <http://dx.doi.org/10.1155/2014/842674>.
- Bamualim, A.M., Kusmartono dan Kuswandi. 2009. Aspek Nutrisi Sapi Perah. Dalam: *Profil Usaha Peternakan Sapi Perah di Indonesia*. Pusat Penelitian dan Pengembangan Peternakan. Badan Penelitian dan Pengembangan Pertanian. Bogor.
- Bath, D.L., F.N. Dickinson, H.A. Tucker, and R.D. Applemen . 1985 . *Dairy Cattle: Principles, Practices, Problems, Profits*. 3th Ed. Lea and Febiger, Philadelphia.
- Batish, D. R. 2007. *Ecological Basis of Agroforestry*. CRC Press. p. 44. ISBN 1-4200-4327-7. Retrieved 2008-09-26.
- Batish, D. R. 2007. *Ecological Basis of Agroforestry*. CRC Press. p. 44. ISBN 1-4200-4327-7. Retrieved 2008-09-26.
- Batish, R. D. 2007. *Ecological Basis of Agroforestry*. CRC Press. hlm. 44. ISBN 1420043277. Diakses tanggal 26 September 2018.
- Batistel, F., J. S. Osorio, A. Ferrari, E. Trevisi, M. T. Socha, and J. J. Looor. 2016. Immunometabolic Status during the Peripartum Period Is Enhanced with Supplemental Zn, Mn, and Cu from Amino Acid Complexes and Co from Co Glucoheptonate.
- Bauman, D. E. 2000. Regulation of nutrient partitioning during lactation: Homeostasis and homeorhesis revisited. Pages 311–327 in *Ruminant Physiology: Digestion, Metabolism and Growth and Reproduction*. P. J. Cronje, ed. CAB Publishing, New York, NY.
- Bauman, D.E. and Currie, W.B. (1980) Partitioning of nutrients during pregnancy and lactation: A review of mechanisms involving homeostatis and homeorhesis. *Journal of Dairy Science*, 63, 1514-1529. doi:10.3168/jds.S0022-0302(80)83111-0.
- Baumgard, L., Collier, R., and Bauman, D. (2017). A 100-Year Review: Regulation of nutrient partitioning to support lactation. *Journal of Dairy Science*, 100, 10352-10366. <https://doi.org/10.3168/jds.2017-13242>
- Behera, P. C., D. P. Tripathy and S. C. Parija. 2013. Shatavari: Potentials for galactogogue in dairy cows. *Indian J. Tradit. Know.* 12(1): 9-17.

- Behera, P.C., D.P. Tripathy, and S.C. Parija. 2013. Shavatari: Potentials for galactogogue in dairy cows. *Indian Journal of Traditional Knowledge*. 12(1): 9-17.
- Bell, A. W., W. S. Burhans, and T. R. Overton. 2000. Protein nutrition in late pregnancy, maternal protein reserves and lactation performance in dairy cows. *Proc. Nutr. soc.* 59.119-126.
- Bennetts, H. W., E. J. Underwood, and F. L. A. Shier. 1946. A specific breeding problem of sheep on subterranean clover pastures in Western Australia. *Aust J Agric Res.* 22: 131-138.
- Bergman, E. N., 1986. Splanchnic and peripheral uptake of amino acids in relation to the gut. *Fed. Proc.* 45:2277-2282.
- Bergman, E. N., and R. H. Heitman. 1978. Metabolism of amino acids by the gut, liver, kidneys, and peripheral tissue. *Fed. Proc.* 37: 1228-1232.
- Berthiaume, R., P. Dubreuil, M. Stevenson, B. W. McBride, and H. Lapierre. 2001. Intestinal disappearance and mesenteric and portal appearance of amino acids in dairy cows fed ruminally protected methionine. *J. Dairy Sci.* 84, 194–203.
- Bharti, R., G. Ahuja, S. Ganapathy and Shruthi. 2012. A Review on Medicinal Plants having Antioxidant Potential. *The Journal of Pharmacy.* 5(8): 4278-4287.
- Bharti, R., G. Ahuja, S. Ganapathy PS and S. S. Dakappa. 2012. A review on medicinal plants having Antioxidant potential. *Journal of Pharmacy Research* 2012,5(8),4278-4287.
- Bismark, R. M., S. M. Abdullah, dan T. Mariana. 2010. Produktivitas tumbuhan pakan di kawasan hutan. *Sintesis Hasil-Hasil Litbang: Pengembangan Penangkaran Rusa Timor*. Badan Penelitian dan Pengembangan Kehutanan Gedung Manggala Wanabakti Blok I Lantai XI.
- Block, K. I. dan M. N. Mead. 2003. Immune System Effects of Echinacea, Ginseng and Astragalus: A review. *Integratif Cancer Therapies.* 2(3): 247-267.
- Bogdam, A. V. 1997. *Tropical Pasture and Fodder Plant*. Longman Group Ltd., London.
- Boisclair, Y., Wesolowski, S., Kim, J., and Ehrhardt, R. (2006). Roles of growth hormone and leptin in the periparturient dairy cow. In K. Sejrsen, T. Hvelplung, and M. Nielsen (Eds.), *Ruminant Physiology. Digestion, metabolism and impact of nutrition on gene expression, immunology and stress* (pp. 327-344). Wageningen Academic Publishers.
- Brielmann, H.L., Setzer, W.N., Kaufman, P.B., Kirakosyan, A. and Cseke, L.J. 2006. Phytochemicals: the chemical components of plants, p.1-49. In L.J. Cseke, A. Kirakosyan, P.B. Kaufman, S.L. Warber, J.A. Duke and H.L. Brielmann (Eds.). *Natural Products From Plants*. CRC Press: New York.
- Budiarsana, I. G. M. 2016. Penggunaan fungsi “Solver” dalam formulasi pakan termurah untuk peternak sapi perah skala kecil. *Informatika Pertanian.* 25(2): 231 – 240.

- Buhian, W. P. C., R. O. Rubio, D. L. Valle Jr., J. J. Martin-Puzon. 2016. Bioactive metabolite profiles and antimicrobial activity of ethanolic extracts from *Muntingia calabura* L. leaves and stems. *Asian Pac J Trop Biomed* 2016; 6(8): 682–685.
- Burchfield AP, Storrs EE. *Biochemical Applications of Gas chromatography*. Academic press, New York., USA. 1962.
- Butler, W. R. 2005. Nutrition, Negative Energy Balance and Fertility in the Postpartum Dairy Cow. *British Cattle Veterinary Association*:13(1).
- Butler, W. R. 2016. Nutrition, Negative Energy Balance and Fertility in the Postpartum Dairy Cow. *Cattle Practise*. Vol. 13 PART 1, Februari 2016. Available at: <https://www.researchgate.net/publication/289748367>.
- C. P. CULOTTA and G. H.SCHMIDT. An Economic Evaluation of Three Times Daily Milking of Dairy Cows 1. 1988. *J Dairy Sci* 71:1960—1966.
- Ca´rdenasa, M. L., Cornish-Bowdena, A., and Uretab, T. (1998) Evolution and regulatory role of the hexokinases. *Biochim. Biophys. Acta* 1401, 242–264.
- Cankaya, M., A. M. Hernandez, M. Ciftci, S. Beydemir, H. Ozdemir, H. Budak, I. Gulcin, V. Comakli, T. Emircupani, D. Ekin, M. Kuzu, Q. Jiang, G. Eichele, and O. I. Kufrevioglu. 2007. An analysis of expression patterns of genes encoding proteins with catalytic activities. *BMC Genomics* 8, 2.
- Cannell, R. J. P. 1998. *Natural Products Isolation*. Human a Press. New Jersey.
- CCRC. 2017. Ekstraksi dan Identifikasi Senyawa. Cancer Chemoprevention Research Center, Fak. Farmasi UGM. Available at <https://ccrc.farmasi.ugm.ac.id/?p=5323>. Accessed on 25 July 2019.
- Chanayath, N., Sorasak, L., and Suree, P. 2002. Pigment Extraction Techniques from the Leaves of *Indigofera tinctoria* Linn. and *Baphicacanthus cusia* Brem. and Chemical Structure Analysis. *Chiang Mai University of Journal*. 1(2): 159-160.
- Cheeke, P. R. 1999. Actual and potential applications of *Yucca schidigera* and *Quillaja saponaria* saponins in human and animal nutrition. *Proc. Am. Soc. Anim. Sci.* E9:1–10.
- Chilliard, Y., A. Ferlay, Y. Faulconnier, M. Bonnet, J. Rouel, and F. Bocquier. 2000. Adipose tissue metabolism and its role in adaptations to undernutrition in ruminants. *Proc. Nutr. Soc.* 59:127–134.
- Church, D. C. and W. G. Pound. 1988. *Basic Animal Nutrition and Feeding*. John WileyandSons, New York.
- Cook, D.L., L. LaFleur, A. Parrish, J. Jones, and D. Hoy. 1997. Characterization of plant sterols from 22 US pulp and paper mills. *Water Sci Technol.* 35: 297-303.
- Cosa P, A. J. Vlietinck, D. V. Berghe, L. Maes. Anti-infective potential of natural products: How to develop a stronger in vitro proof-of-concept. *J Ethnopharmacol.* 2006; 106:290-302.
- Costa, T. S. A., R. F. Vieira, H. R. Bizzo, D. Silveira and M. A. Gimenes. 2012. *Secondary Metabolites in Chromatography and Its Applications*. Available at

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<https://www.researchgate.net/publication/221929178>.

- Cowan MM (1999) Plant products as antimicrobial agents. *Clin Microbiol Rev* 12:564–582.
- Croteau R 1987 Biosynthesis and catabolism of monoterpenoids; *Chem. Rev.* 87 929–954.
- Dai, J. and R. J. Mumper. 2010. Plant Phenolics: Extraction, Analysis and Their Antioxidant and Anticancer Properties. *Molecules* 2010, 15, 7313-7352; doi:10.3390/molecules15107313.
- Dai, L., Sun, C., Li, R., Mao, L., Liu, F., and Gao, Y. (2017). Structural characterization, formation mechanism and stability of curcumin in zein- lecithin composite nanoparticles fabricated by antisolvent co-precipitation. *Food Chemistry*, 237, 1163–1171. <https://doi.org/10.1016/j.foodchem.2017.05.134>
- Daning, D. R. A., dan B. Foekh. 2018. Evaluasi Produksi dan Kualitas Nutrisi pada Bagian Daun dan Kulit Kayu *Calliandra callotirsus* dan *Gliricidia sepium*. *Sains Peternakan*. 16(1): 7-11.
- De Kort I., and Thijsse, G. 1984. A Revision of The Genus *Indigofera* (*Leguminosae-Papilionoideae*) in Southeast Asia. *Blumea*. 30: 89-151.
- Departemen Kesehatan Republik Indonesia (Depkes RI). 2000. Parameter Standar Umum Ekstrak Tumbuhan Obat. Direktorat Jendral Pengawasan Obat dan Makanan. Jakarta.
- Depkes RI., 2008, Farmakope Herbal Indonesia, Departemen Kesehatan Republik Indonesia, Jakarta.
- Dewick PM (2002) Medicinal natural products, vol 495. John Wiley and Sons Ltd, New York.
- Djoković, R., V. Kurćubić, Z. Ilić, M. Cincović, M. Petrović, N. Fratrić, dan B. Jašović. 2013. Evaluation of metabolic status in Simmental dairy cows during late pregnancy and early lactation. *VETERINARSKI ARHIV*. 83(6): 593-602.
- Drackley, J. K. 1999. Biology of Dairy Cows During the Transition Period: the Final Frontier? *J. Dairy Sci.* 82(11): 2259–2273.
- Drackley, J. K. 2001. Physiological Adaptations in Transition Dairy Cows. Available at: <https://www.researchgate.net/publication/228974418>. Diakses pada tanggal 31 Agustus 2017.
- Drackley, J. K., T. R. Overton, and G. N. Douglas. 2001. Adaptations of glucose and long-chain fatty acid metabolism in liver of dairy cows during the periparturient period. *J Dairy Sci.* 84(E Suppl): E100-E112.
- Duranti M. (2006) Grain legumes proteins and nutraceutical properties. *Fitoterapia*, 77: 67-82. 5. Pitchford P. (1993) *Healing with whole foods*. 3rd edition, North Atlantic Books, California.
- Duranti, M. 2006. Grain legumes proteins and nutraceutical properties. *Fitoterapia*. 77: 67-82.

- Elevitch, C. R. 2004. The Overstory Book: Cultivating Connections wit Trees. Permanent Agriculture Resources. hlm. 152. ISBN 0970254431. Diakses pada tanggal 26 September 2017. <https://id.wikipedia.org/wiki/Gamal>.
- Emery, R.S., J. S. Liesman, T. H. Herdt. Metabolism of long chain fatty acids by ruminant liver. J. Nutr. 1992, 122, 832–837.
- Falvey, J. L. 1982. Gliricidia maculata - A review. The International Tree Crops Journal. 2: 1-14.
- Farid, M. dan H. Sukesu. 2011. Pengembangan susu segar dalam negeri untuk pemenuhan kebutuhan susu nasional. Buletin Ilmiah Litbang Perdagangan. 5(2).
- Feliciano, M. do Carmo. L. Mateus, and L. L. da Costa. 2003. Luteal function and metabolic parameters in relation to conception in inseminated dairy cattle. RPCV. 98(545): 25-31.
- Franke, A. A. Custer, L. J. Cerna, C. M., and Narala, K. K. 1994. Quantitation of phytoestrogens in legumes by HPLC. J. Agric. Food Chem. 42: 1905-1913.
- Frankic, T., Voljg, M., Salobir, J., Rezar, V. 2009. Use of Herbs and spices and their extracts in animal nutrition. Acta Agriculturae Slovenica, 92(2): 95-102
- Friedman, G. D. 1996. Thin section grain size analysis revisited. Sedimentology. 43(1). Available at: <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1365-3091.1996.tb01467.x>. Diakses pada tanggal 26 September 2017.
- Gabay, M. P. 2002. Galactogogues: Medications That Induce Lactation. J. Hum. Lact. 18(3): 273-279.
- Gajzago I. S. 1998. Nutritional aspects of legumes. In: Cultivated plants, primarily as food sources Encyclopedia of Life Support Systems (EOLSS), vol-1, pp.101-114. 4.
- Gajzago, I. S. 1998. Nutritional Aspects of Legumes. In: Cultivated plants, primarily as food sources. Encyclopedia of Life Support Systems (EOLSS). 1: 101-114. Available at: <https://www.eolss.net/sample-chapters/C10/E5-02-02.pdf>. Diakses pada tanggal 17 September 2017.
- Gbadamosi, I. T., and Okolosi, O. (2013) Botanical galactogogues: Nutritional and therapeutic potentials. J. Appl. Biosci. 61: 4460– 4469.
- Gergácz, Z., and E. Szücs. 2009. Critical points in the feeding of high yielding dairy cows in association with bcs and metabolic profile test, *Lucrări științifi ce Zootehnie și Biotehnologii*. 42(2): 568-580.
- Ghaifarokhi, S. M. A. D. Samani, A. D. Ketosis (acetonemia) in dairy cattle farms: practical guide based on importance, diagnosis, prevention and treatments. Journal of Dairy, Veterinary and Animal Research. Volume 7 Issue 6 – 2018.
- Ghedira, K., P. Goetz, dan R. Le Jeune. 2010. Fenugrec: *Trigonella foenum-græcum* L. (Fabaceae ex. Leguminosae). *Phytotherapie*: 8(3):180-184. DOI: 10.1007/s10298-010-0551-z.
- Giesecke, D. and M. Stangassinger M. 1979. Untersuchungen zur Genese und Biochemie der Pansenacidose. VII. Oxydationsrate und quantitative

- Gluconeogenesis aus D-Lactat-(14C) bei Ziegen. Zentralbl. Veterinärmed. A 26, 85–94.
- Giesecke, D. and M. Stangassinger, M. 1977. Rumen acidosis and metabolic kinetics of D(2) lactic acid. In Proceedings of the 3rd International Conference on Production Disease in Farm Animals (van Adrichem, P. W. M., ed.). pp. 85–87, Pudoc, Wageningen, The Netherlands.
- Giweli AA, Dzamic AM, Sokovic M, Ristic M, Janackovic P, Marin P (2013) The chemical composition, antimicrobial and Antioxidant Activities of the Essential Oil of *Salvia fruticosa* Growing Wild in Libya. Archives of Biological Sciences 1:321–329
- Goff, J. P. 2003. Managing transition cow: consideration for optimising energy and protein balance and immune function: Cattle Pract. 11(2): 51-63.
- Goff, J. P. 2008. Transition Cow Immune Function and Interaction with Metabolic Diseases. Tri-State Dairy Nutrition Conference, 22-23 April 2008.
- Goff, J. P. and R. L. Horst. 1997. Physiological changes at parturition and their relationship to metabolic disorders. J Dairy Sci. 80 (7): 1260-1268.
- Grummer, R. R. 1995. Impact of changes in organic nutrient metabolism on feeding the transition dairy cow. J Anim Sci. 73: 2820-2833.
- Gupta, M. and B. Shaw. 2011. A Double-Blind Randomized Clinical Trial for Evaluation of Galactogogue Activity of *Asparagus racemosus* Wild. Iran J. Pharmaceut. Res. 10(1): 167-172.
- Hakim L, N. Nakagoshi, and Y. Isaghi. 2002. Conservation Ecology of *Gigantochloa manggong*: an Endemic Bamboo at Java, Indonesia. Journal of International Development and Cooperation. 9: 1-16.
- Hall, J. B. 2005. Interactions between nutrition and reproduction in beef cows. Proceedings, Applied Reproductive Strategies in Beef Cattle. Lexington, Kentucky.
- Harmon, D. L., R. A. Britton, and R. L. Prior. 1983. Influence of diet on glucose turnover and rates of gluconeogenesis, oxidation and turnover of D-(2)-lactate in the bovine. J. Nutr. 113, 1842–1850.
- Haryanto, B. 2012. Perkembangan Penelitian Nutrisi Ruminansia. WARTAZOA. Vol. 22 (4): 169-177.
- Hayirli A, R. R. Grummer, E. V. Nordheim, and P. M. Crump. 2002. Animal and dietary factors affecting feed intake during the prefresh transition period in Holsteins. J Dairy Sci 85: 3430-3443
- Hayirli, A., R. R. Grummer, E. Nordheim, P. Crump, D. K. Beede, M. J. VandeHaar, L. H. Kilmer, J. K. Drackley, D. J. Carroll, G. A. Varga, and S. S. Donkin. 1999. Prediction equations for dry matter intake of transition cows fed diets that vary in nutrient composition. J. Dairy Sci. 82(1): 113.
- Heftmann F. Chromatography: Fundamentals and Application of Chromatographic and Electrophoretic Techniques. 5th edn., Elsevier, Amsterdam, The Netherlands. 1992.

- Herbert RB (1989) The biosynthesis of secondary metabolites, vol 200. Springer, London.
- Herrmann, K. and Nagel, C.W. (1989) Occurrence and Content of Hydroxycinnamic and Hydroxybenzoic Acid Compounds in Foods. *Critical Reviews in Food Science and Nutrition*, 28, 315-347.
- Hidayat, S, 2005. *Ramuan Tradisional ala 12 Etnis Indonesia*. hal.98 and 320. Penebar Swadaya. Jakarta. ISBN 979-489-944-5.
- House, J. 2011. *A Guide to Dairy Herd Management*. Meat and Livestock Australia Limited. Australia.
- Ingle, K. P., A. G. Deshmukh, D. A. Padole, M. S. Dudhare, M. P. Moharil and V. C. Khelurkar. 2017. Phytochemicals: Extraction methods, identification and detection of bioactive compounds from plant extracts. *Journal of Pharmacognosy and Phytochemistry* 2017; 6(1): 32-36.
- Ingvartsen, K. L., and J. B. Andersen. 2000. Symposium: Dry Matter Intake Of Lactating Dairy Cattle. *J Dairy Sci* 83(7): 1573-1597.
- Irena, C., U. Igor, S. Velimir, D. Toni, M. Dine, and D. Igor. 2010. Effect of lactation on energy metabolism in dairy cows from different categories. *Mac. Vet. Rev.* 33(2): 15-21.
- Jacobs, J. 2002. *Feeding Dairy Cows*. Edited by Joe Jacobs with Ann Hargreaves. Third edition. Department of Natural Resources and Environment Victorian State Government. Melbourne. Victoria. Australia. ISBN 1 74106 240 3.
- Jana, S dan G. S. Shekhawat. *Anethum graveolens: An Indian Traditional Medicinal Herb and Spice*. *Pharmacognosy Review*, 4, 179-184. <http://dx.doi.org/10.4103/0973-7847.70915>.
- Jantan, I., W. Ahmad, and S. N. A. Bukhari. 2015. *Frontiers in Plant Science*. August 2015. DOI: 10.3389/fpls.2015.00655.
- Jaradat, N., F. Hussen, and A. Al Ali. 2015. Preliminary Phytochemical Screening, Quantitative Estimation of Total Flavonoids, Total Phenols and Antioxidant Activity of *Ephedra alata*. *J. Mater. Environ. Sci.* 6(6): 1771-1778.
- Jensen, M. 1999. *Trees Commonly Cultivated in Southeast Asia: an illustrated field guide*. 2nd Ed. FAO - RAP Publication: 1999/13
- Jøker, D. 2002. *Gliricidia sepium (Jacq.) Steud. Seed Leaflet no 51: Jan 2002*. DANIDA Forest Seed Center. Philippine Medicinal Plants. Kakawate.
- Kabera, J. N., E. Semana, A. R. Mussa, and X. He. 2014. Plant Secondary Metabolites: Biosynthesis, Classification, Function and Pharmacological Properties. *Journal of Pharmacy and Pharmacology*. 2: 377-392.
- Kabera, J.N., Semana, E., Mussa, A.R. and He, X. (2014). Plant Secondary Metabolites : Biosynthesis, Classification, Function, and Pharmacological Properties. *J Pharm Pharmacol*, 377-392.
- Kadokawa, H., and B. G. Martin. 2006. A new perspective on Management of reproduction in dairy cows: the need for detailed metabolic information, an improved selection index and extended lactation, *J. Reprod. Dev.* 52(1): 161-168.

- Kamra, D.N., Singh, R., Chaudhary, L.C., Agarwal, N. and Pathak, N.N. 2000. Soapnut (Reetha) as a natural defaunating agent: its effect on rumen fermentation and in sacco degradability of jowar hay in buffaloes. *Buffalo Journal*, 16: 99-104.
- Karsli MA, Russell JR. 2002. Prediction of the voluntary intake and digestibility of forage-based diets from chemical composition and ruminal degradation characteristics. *Turkish J Vet Anim Sci*. 26:249-255.
- Kehrl, M., and J. Goff. 1989. Periparturient Hypocalcemia in Cows: Effects on Peripheral Blood Neutrophil and Lymphocyte Function. *J. Dairy Sci*. 72(5): 1188-1196.
- Kellems, R.O. And Church, D.O. 2002. *Livestock Feeds And Feeding (5th End)*. Prentice Hall, New Jersey, Pp. 654p.
- Khampa, S and M. Wanapat. 2007. Manipulation of Rumen Fermentation with Organic Acids Supplementation in Ruminants Raised in the Tropics . *Pakistan Journal of Nutrition*, 6: 20-27. **DOI:** [10.3923/pjn.2007.20.27](https://doi.org/10.3923/pjn.2007.20.27). **URL:** <https://scialert.net/abstract/?doi=pjn.2007.20.27>
- Kimura, K., J. P. Goff, M. E. Kehrl, and J. A. Harp. 1999. Phenotype analysis of peripheral blood mononuclear cells in peripartum dairy cows. *J. Dairy Sci*. 82: 315-319.
- Kiparissis, Y., G. C. Balch, T. L. Metcalfe, and Metcalfe, C.D. 2003. Effects of the isoflavones genistein and equol on the gonadal development of Japanese medaka (*Oryzias latipes*). *Environ Health Perspect*. 111: 1158-1163.
- Kiparissis, Y., R. Hughes, C. Metcalfe, and T. Ternes. 2001. Identification of the isoflavonoid genistein in bleached kraft mill effluent. *Environ Sci Technol*. 35: 2423-2427.
- Kitamura. Y. and Abe J. (1984): Relative drought sensitivity of tropical panure legumes. *J. Japan Grassld. Sci.*. 30. 122~ 130.
- Knop, R. and H. Cernescu. 2009. Effects of negative energy balance on reproduction in dairy cows. *Luc. Sti. Med. Vet. Vol. XLII (2)*. Timisoara. Romania.
- Knop, R., and H. Cernescu. 2009. Effects of negative energy balance on reproduction in dairy cows. *Luc. Sti. Med Vet. XLII (2)*. Timisoara.
- Knop, R., and H. Cernescu. 2009. Effects of negative energy balance on reproduction in dairy cows. *Luc. Sti. Med Vet. XLII (2)*. Timisoara.
- Kresno, S. B. 2001. *Imunologi: Diagnosis dan prosedur Laboratorium Edisi IV*, Fakultas Kedokteran UI Press. Jakarta.
- Kristensen, N. B. and B. M. Raun. 2007. Ruminal and intermediary metabolism of propylene glycol in lactating Holstein cows. *J. Dairy Sci*. 90, 4707–4717.
- Kristensen, N. B. and D. L. Harmon. 2004^a. Effect of increasing ruminal butyrate absorption on splanchnic metabolism of VFA absorbed from the washed reticulorumen of steers. *J. Anim. Sci*. 82, 3549–3559.

- Kristensen, N. B. and D. L. Harmon. 2004^b. Splanchnic metabolism of VFA absorbed from the washed reticulorumen of steers. *J. Anim. Sci.* 82, 2033–2042.
- Kumar, D., B. Singh, K. Bauddh, and J. Korstad. 2015. Bio-oil and biodiesel as biofuels derived from microalgal oil and their characterization by using instrumental techniques. Chapter 7 in Singh *et al.* (eds.) 2015, pp: 87-96. *Algae and Environmental Sustainability Algae and Environmental Sustainability. Developments in Applied Phycology 7*, DOI 10.1007/978-81-322-2641-3.
- Lalitha, S, B. Parthipan and V. R. Mohan. 2015. Determination of Bioactive Components of *Psychotria nilgiriensis* Deb and Gang (Rubiaceae) by GC-MS Analysis. *International Journal of Pharmacognosy and Phytochemical Research* 2015; 7(4); 802-809.
- Lamy, E., S. van Harten, E. S. Baptista, M. M. M. Guerra, and A. M. de Almeida. 2012. *Environmental Stress and Amelioration in Livestock Production*. DOI: 10.1007/978-3-642-29205-7_2. Springer-Verlag Berlin Heidelberg. Available at: https://www.researchgate.net/publication/233426652_Factors_Influencing_Livestock_Productivity. Diakses pada tanggal 9 Maret 2018.
- Langi, P. V. 2013. Isolasi dan identifikasi senyawa X ekstrak etanol biji kenari (*Canarium indicum* L.) yang diperoleh dari pasar di Manado. *Calyptra: Jurnal Ilmiah Mahasiswa Universitas Surabaya*. 2(1).
- Larsen, M. and N. B. Kristensen, N. 2009. Effect of abomasal glucose infusion on splanchnic amino acid metabolism in periparturient dairy cows. *J. Dairy Sci.* 92, 3306–3318.
- Lawrence, R. A. and R. M. Lawrence. 1999. *Breast feeding: A guide for medical profession*, 5th edition. St. Louis. Osby. 62-64.
- LeBlanc, S. 2006. *Monitoring Programs For Transition Dairy Cows*. World Buiatrics Congress. Nice. France.
- Lemmens, R. H. M. J., N. W., Suetjipto, R. P. van der Zwan, and M. Parren. 1992. History and Role of Vegetables Dyes. In Lemmens RHMJ. and Suetjipto NW (eds) *Plant Resources of South East Asia 3: Dye and Tannin Producing Plants*. Prosea Foundation, Bogor. 26-34.
- Lemon, P. W. and F. J. Nagle. 1981. Effects of exercise on protein and amino acid metabolism. *Med. Sci. Sports Exerc.* 13, 141–149.
- Lemon, P. W. and F. J. Nagle. 1981. Effects of exercise on protein and amino acid metabolism. *Med. Sci. Sports Exerc.* 13, 141–149.
- Leslie, K., T. Duffield, and S. LeBlanc. 2003. Monitoring and managing energy balance in the transition dairy cow, *Dep. Population Med. Univ. of Guelph, J Dairy Sci.* 86: 101-107.
- Littlewood, A. B. *Gas Chromatography Principle, Techniques and Applications*. Academic Press, London, U.K. 1962. Burchfield AP, Storrs EE. *Biochemical Applications of Gas chromatography*. Academic press, New York., USA. 1962.

- Lomax, M. A. and G. D. Baird. 1983. Blood flow and nutrient exchange across the liver and gut of the dairy cow. *Br. J. Nutr.* 49, 481–496.
- Macqueen, D. J. 1992. *Calliandra calothyrsus*: Implications of Plant Taxonomy, Ecology and Biology for Seed Collection. *Commonwealth Forestry Review.* 71(1): 20-34.
- Madias, N. E. 1986. Lactic acidosis. *Kidney Int.* 29, 752–774.
- Mahmood, A., Omar, M.N and Ngah, N. (2012). Galactagogue effects of *Musa x paradisiaca* flower extract on lactating rats. *Asian Pacific Journal of Tropical Medicine*, 882–886. <https://www.sciencedirect.com/science/article/pii/S1995764512601643>.
- Mahmoud S S and Croteau R 2002 Strategies for transgenic manipulation of monoterpene biosynthesis in plants; *Trends Plant Sci.* 7 366–373.
- Mallard, B. A., J. C. Dekkers, M. J. Ireland, K. E. Leslie, S. Sharif, C. Lacey Vankampen, L. Wagter, and B. N. Wilkie. 1998. Alteration in immune responsiveness during the peripartum period and its ramification on dairy cow and calf health. *J. Dairy Sci.* 81: 585-595.
- Martens, H. 2000. Transition Period of the Dairy Cow Revisited: I. Homeorhesis and Its Changes by Selection and Management. *Journal of Agricultural Science*; Vol. 12, No. 3; 2020 ISSN 1916-9752 E-ISSN 1916-9760 Published by Canadian Center of Science and Education.
- Martoatmodjo, R. S., I. Hamid, dan Soemartono. 1973. *Gamal Pohon Serba Guna*. Penerbit Balai Pustaka. Jakarta
- Martoatmodjo, S., I. Hamid, dan Soemartono. 1973. *Gamal Pohon Serba Guna*. Penerbit Balai Pustaka. Jakarta.
- Material Data Sheet Online. Ethyl alcohol (C₂H₅OH). <https://www.msdsolnline.com/sds-search/>. Accessed on 25 July 2019.
- Mayes, P. A. 1996. Gluconeogenesis and control of the blood glucose. In *Harper's Biochemistry*, 24th edn. (Murray, R. K., Granner, D. K., Mayes, P. A., and Rodwell, V. W., eds.). pp. 194–204, Appleton & Lange, Stanford, CT.
- McDonald, P., R. A. Edwards, J. F. D. Greenhalgh and C. A. Morgan. 2002. *Animal Nutrition*. 5th Edition. Longman Inc, London.
- Meislich, H., J. Sharefkin, H. Nechamkin, and G. Hademenos. 2010. *Organic Chemistry*. Fourth Edition. McGraw-Hill, Canada.
- Melendez, P. 2006. Nutritional Management of the Transition Period to Optimize Fertility in Dairy Cattle. *Proceedings 3rd Florida & Georgia Dairy Road Show*.
- Michal, G., and D. Schomburg. 2013. *Biochemical Pathways: An Atlas of Biochemistry and Molecular Biology*. 2nd ed. Wiley, 416.
- Minson, D. J. 1990. The Chemical Composition and nutritive Value of Tropical grasses. In: (Ed. P. J. Skerman, D. G. Cameroon and F. Riveros) *Tropical Grasses*. pp. 172-180. Food and Agriculture Organization of the United Nations, Rome.
- Mirzaei, F. 2012. Effect of Herbal Feed Additives on Performance Parameters of Ruminants and Especially on Dairy Goat: A Review. *IJAVMS* 6 (5): 307-331.

- Mohanty, I., M. R. Senapati, D. Jena, and P.C. Behera. 2014. Ethnoveterinary importance of herbal galactogogues - a review. *VeterinaryWorld*. 7(5): 325-330. EISSN: 2231-0916. Available at www.veterinaryworld.org/Vol.7/May-2014/11.pdf
- Mohanty, I., M. R. Senapati, D. Jena, and P.C. Behera. 2014. Ethnoveterinary importance of herbal galactogogues - a review. *Veterinary World*. 7(5): 325-330. EISSN: 2231-0916. Available at www.veterinaryworld.org/Vol.7/May-2014/11.pdf
- Moharram, F. A., M. S. A. Marzouk, M. T. Ibrahim, and T. J. Marby. 2006. Antioxidant galloylated flavanol glycosides from *Calliandra haematocephala*. *Nat Prod Res*. 20: 927–934.
- Moran, J. 2005. *Tropical Dairy Farming*. Landlinks Press. Australia.
- Moree, S. S., and J. Rajesha. 2011. Secoisolariciresinol Diglucoside: A potent multifarious bioactive phytoestrogen of flaxseed. *Research and Reviews in Biomedicine and Biotechnology [RRBB]*. 2(3): 1-24. Available online at www.rrb.in. ISSN 2229–7154.
- Motamarri, S. N., M. Karthikeyan, S. Rajasekar, and Gopal. 2012. Indigofera tinctoria A Phytopharmacological Review. *International Journal of Research in Pharmaceutical and Biomedical Sciences*. 3(1): 164-169.
- Mukhiariani. 2014. Ekstraksi, Pemisahan Senyawa, dan Identifikasi Senyawa Aktif. *Jurnal Kesehatan Vol. VII (2)*: 361-367.
- Muzayyinah. 2012. Jejak Evolusi dan Spesiasi Marga Indigofera. *BIOEDUKASI*. 5 (2): 1-12. ISSN: 1693-2654.
- Neville, Mc., J. Morton, and S. Unemura. 2001. Lactogenesis Transition from pregnancy to lactation. *Ped. Clin. North.Am.*,48: 45-52.
- NFTA. 1994. *Glicidia sepium: the quintessential agroforestry species 1994-2004*. Waimanalo.
- Nicolaou KC, Jason S, Chen and Elias James Corey (2011) *Classics in total synthesis. Further targets, strategies, methods III* Weinheim, Wiley-VCH.
- NRC. 2001. *Nutrient Requirements of Dairy Cattle*. 7th revised ed. National Academy Press. Washington DC (USA).
- Nugroho, A. 2017. *Buku Ajar: Teknologi Bahan Alam*. Lambung Mangkurat University Press. Banjarmasin.
- Nurhajjah, A., A. Purnomoadi, dan D. W. Harjanti. 2016. Hubungan Antara Konsumsi Serat Kasar dan Lemak Kasar dengan Kadar Total Solid dan Lemak Susu Kambing Peranakan Ettawa. *Agripet*. 16(1): 1-8.
- Nutritional Management for Transition Dairy Cows* . James K. Drackley. Department of Animal Sciences, University of Illinois, Urbana, IL 61801. <https://www.txanc.org/docs/NutritionalManagementTransitionCows.pdf>. Diakses tanggal 17 Maret 2021.
- Oba, M, and M. S. Allen. 2003. Effects of Corn Grain Conservation Method on Ruminant Digestion Kinetics for Lactating Dairy Cows at Two Dietary Starch Concentrations. *J. Dairy Sci*. 86: 184–194.

- Oetzel, G. R. 2003. Herd-Based Biological Testing for Metabolic Disorders *Advances in Dairy Technology*. 15: 275-285.
- Orskov, E.L and McDonald. 1982. Protein Nutrition on Ruminants. Academic Press Limited, London. 40-50.
- Overton, T. R. and M. R. Waldron. 2004. Nutritional management of transition dairy cows: strategies to optimize metabolic health. *J. Dairy Sci.* 87 (E Suppl), E105–E119.
- Owens, F. N., S. Qi, and D. A. Sapienza. 2014. Applied protein nutrition of ruminants – current status and future directions. *Prof. Anim. Sci.*: 30 (2): 150-179.
- Pamungkas, K., dan M. Murrukmihadi. 2015. Isolasi dan penetapan kadar alkaloid ekstrak etanolik bunga kembang sepatu (*Hibiscus rosa-sinensis* L.) secara spektrodensitometri. *Trad. Med. J.* 20(2): 112-118. ISSN: 1410-5918.
- Park ES, Moon WS, Song MJ, Kim MN, Chung KH, Yoon JS (2001) Antimicrobial activity of phenol and benzoic acid derivatives. *Int Biodeterior Biodegradation* 47:209–214.
- Patchouli alcohol (C₁₅H₂₆O). <https://www.caymanchem.com/search?fq=raptas:RAP000018>. Accessed on 25 July 2019.
- Patel, M. D., K. K. Tyagi, L. M. Sorathiya and A. B. Fulsoundar. 2013. Effect of polyherbal galactogogue supplementation on milk yield and quality as well as general health of Surti buffaloes of south Gujarat. *Vet. World*. 6(4):214-218.
- Patel, M. D., K. K. Tyagi, L. M. Sorathiya and A. B. Fulsoundar. 2013. Effect of polyherbal galactogogue supplementation on milk yield and quality as well as general health of Surti buffaloes of south Gujarat. *Vet. World*. 6(4):214-218.
- Pengelly A (2004) *The constituents of medicinal plants: an introduction to the chemistry and therapeutics of herbal medicine*. CABI Publishing.
- Peter H. G., and P. V. Carroll. 2003. Legumes: Importance and Constraints to greater use. *Plant Physiology*. 131: 872-877.
- Peter H.G. and Carroll P. V. (2003) Legumes: Importance and Constraints to greater use. *Plant Physiology*, 131, 872-877.
- Plantus. 2008. *Gliricidia sepium*. <http://anekaplantawordpress.com/2008/07/30/Gliricidia-sepium-jacqkunth-ex-walp-gamal-liriksidia/>. Diakses pada tanggal 27 April 2017, pukul 15:00 WIB.
- Pond, W. G., D. C. Church, and K. R. Pond. 1995. *Basic Animal Nutrition and Feeding*. Fourth Edition. John Wiley And Sons. p. 615.
- Porto, C., Porretto, E., and Decorti, D. (2013). Comparison of ultrasoundassisted extraction with conventional extraction methods of oil and polyphenols from grape (*Vitis vinifera* L.) seeds. *Ultrasonics Sonochemistry*, 20(4), 1076-1080. <http://dx.doi.org/10.1016/j.ultsonch.2012.12.002>. PMID:23305938.

- Potocka, I. W., C. Mannelli, D. Boruszewska, I. K. Zieba, T. WaVniewski, and D. J. Skarzynski. 2013. Diverse Effects of Phytoestrogens on the Reproductive Performance: Cow as a Model. Review Article. Hindawi Publishing Corporation. International Journal of Endocrinology. Volume 2013, Article ID 650984, 15 pages. <http://dx.doi.org/10.1155/2013/650984>.
- Prosea. *Gliricidia sepium*. Available at [https://uses.plantnet-project.org/en/Gliricidia_sepium_\(PROSEA\)](https://uses.plantnet-project.org/en/Gliricidia_sepium_(PROSEA)). Diakses pada 26 Juni 2018.
- Quigley J. D., L. A. Caldwell, G. D. Sinks, and R. N. Heitmann. 1991. Changes in blood glucose, Nonesterified fatty Acids, and ketones in response to weaning and feed intake in young Calves. *J. Dairy Sci.* 74: 250-257.
- R. M. Agustin, M. Patindol, and P. G. Dennis. 1998. The Landcare experience in the Philippines: technical and institutional innovations for conservation farming. *Development and Agroforestry.* 117-135.
- Rahman, T. U., M. A. Zeb, W. Liaqat, M. Sajid, S. Hussain, and M. I. Chouhary. 2018. Phytochemistry and Pharmacology of Genus *Indigofera*: A Review. *Rec. Nat. Prod.* 12(1): 1-13.
- Rajeswari, G., M. Murugan and V.R. Mohan. 2019. GC-MS analysis of bioactive components of *Hugonia mystax* L. (Linaceae). *J Pharm Biomed Sci.* 2013, April 29 (29): 818-824.
- Ramandani, D., dan A. Nururrozi. 2015. Kadar Glukosa dan Total Protein Plasma pada Sapi yang Mengalami Kawin Berulang di Wilayah Daerah Istimewa Yogyakarta. *JSV* 33 (1): 0126 – 0421.
- Rao, U. S. M., M. Abdurrazak, and K. S. Mohd. 2016. Phytochemical screening, total flavonoid, and phenolic content assays of various solvent extracts of *Musa paradisiaca*. *Malaysian Journal of Analytical Sciences.* 20(5): 1181 – 1190.
- Rattana, S., M. Phadungkit, and B. Cushnie. 2010. Phytochemical Screening, Flavonoid Content and Antioxidant Activity of *Tiliacora Triandra* Leaf Extracts. The 2nd Annual International Conference of Northeast Pharmacy Research. Faculty of Pharmacy, Mahasarakham University, Maha Sarakham, Thailand
- Reksohadiprodo, S. 1981. Produksi Tanaman Hijauan Makanan Ternak Tropik. Bagian Penerbitan Fakultas Ekonomi Universitas Gadjah Mada. Yogyakarta.
- Reksohadiprodo, S. 1988. Pakan Ternak Gembala. BPFE. Yogyakarta.
- Remppis, S., H. Steingass, L. Gruber, and H. Schenkel. 2011. Effects of Energy Intake on Performance, Mobilization and Retention of Body Tissue, and Metabolic Parameters in Dairy Cows with Special Regard to Effects of Pre-partum Nutrition on Lactation - A Review. *Asian-Aust. J. Anim. Sci.* 24(4): 540 – 572.
- Renaville, R., Hammadi, M., and Portetelle, D. (2002). Role of somatotrophic axis in the mammalian metabolism. *Domestic Animal Endocrinology*, 23, 351-360. [https://doi.org/10.1016/S0739-7240\(02\)00170-4](https://doi.org/10.1016/S0739-7240(02)00170-4).

- Reynolds, C. K., P. C. Aikman, B. Lupoli, D. J. Humphries, and D. E. Beever. 2003. Splanchnic metabolism of dairy cows during the transition from late gestation through early lactation. *J. Dairy Sci.* 86, 1201–1217.
- Rosy, B. A., H. Joseph, and Rosalie. 2010. Phytochemical, Pharmacognostical, Antimicrobial activity of *Indigofera aspalathoids* vahl. (Fabaceae). *International Journal of Biological Technology.* 1(1): 12-15.
- Ryökkynen, A. 2006. Effects of phytoestrogens on the reproduction and weight regulation of mammals. University of Joensuu, PhD Dissertations in Biology. ISSN 1457-2486. ISBN 952-458-827-7
- Safe, K., K. Connor, K. Ramamoorthy, K. Gaido, and S. Maness. 1997. Human exposure to endocrineactive chemicals: hazard assessment problems. *Regul Toxicol Pharmacol.* 26: 52-58.
- Sahu, R., and J. Saxena. 2013. Screening of Total Phenolic and Flavonoid Content in Conventional and Non-Conventional Species of *Curcuma*. *Journal of Pharmacognosy and Phytochemistry.* 2(1): 305-312.
- Samuelsson, G. 1999. *Drug of Natural Origin: A Textbook of Pharmacognosy.* SwedishPharmaceuticalPress, Stockholm, Sweden.
- Sanjappa, M. 1985. The Marga *Indigofera* L. (Fabaceae-papilionaceae) In Burma. *Reindwardtia.* 10 (2): 211-244.
- Sarker SD, Latif Z, and Gray AI. 2006. Natural products isolation. In: Sarker SD, Latif Z, and Gray AI, editors. *Natural Products Isolation.* 2nd ed. Totowa (New Jersey). Humana Press Inc. hal. 6-10, 18.
- Sarmin, I. W., dan B. Suwignyo. 2013. Respons Metabolik terhadap Pembatasan Asupan Pakan pada Kambing Peranakan Ettawa. *Jurnal Veteriner.* 14(4): 424-429. ISSN: 1411 – 8327.
- Sasidharan, S., Y. Chen, D. Saravanan, K. M. Sundram, L. Yoga Latha. Extraction, isolation and characterization of bioactive compounds from plants' extracts. *Afr J Tradit Complement Altern Med.* 2011; 8(1):1-10.
- Sastrohamidjojo, H. 2007. *Spektroskopi.* Penerbit Liberty. Yogyakarta
- Sato, H., M. Matsumoto, and S. Hanasaka. 1998. Relations between Plasma Acetate, 3-Hydroxybutyrate, FFA, Glucose Levels and Energy Nutrition in Lactating Dairy Cows. *J. Vet. Med. Sci.* 61(5): 447–451.
- Savithramma, N., M. Linga Rao, and D. Sahrulatha. 2011. "Screening of Medicinal Plants for Secondary Metabolites." *Middle-East J. Sci. Res.* 8(5): 79-84.
- Schmidt, G.H., L.D. Van Vleck and M.F. Hutjunes. 1988. *Principles of Dairy Sciences.* 2 nd ed. Prentice Hill, Englewood Cliffs, New Jersey.
- Schrire, B. 2013. A Review of Tribe *Indigoferae* (Leguminosae–Papilionoideae) in Southern Africa (including South Africa, Lesotho, Swaziland & Namibia; excluding Botswana). *South African Journal of Botany.* 89: 281-283.
- Schrire, B.D., M. Lavin, N. P. Barker, and F. Forest. 2009. Phylogeny of the tribe *Indigoferae* (Leguminosae–Papilionoideae): geographically structured more in succulent-rich and temperate settings than in grass-rich environments. *American Journal of Botany.* 96(4): 816–852.

- Selinger, L. B., C. W. Forsberg and K. J. Cheng. 1996. The rumen: A unique source of enzymes for enhancing livestock production. *Anaerobe* 2 263-284.
- Semalulu, O., H. James, and D. Namayanja. 2017. Sustainable Land Management Manual for Training of Trainers. Vol. 2. NARO. Available at <https://www.researchgate.net/publication/326156581>.
- Sembiring, E.N., B. Elya, and R. Sauriasari. 2018. Phytochemical Screening, Total Flavonoid and Total Phenolic Content, and Antioxidant Activity of Different Parts of *Caesalpinia bonduc* (L.) Roxb. *Pharmacog J.* 10(1):123-127.
- Sharrif, M. M. 2011. *Nigella sativa* traditional usages (Black seed). The Free Library, <http://www.thefreelibrary.com/a0253057724>, Accessed on 01 February 2017.
- Sinar Tani. 2011. Tanaman Indigofera sp. untuk Ternak Kambing. Edisi 14-20 Desember 2011 No.3435 Tahun XLII. Badan Litbang Pertanian. Kementerian Pertanian.
- Singh, A. P., and A. Rekib. 1991. Feeding value of ammoniated tropical grass. *Ind. J. Anim. Sci.*, 61(8): 864-868.
- SNV Ethiopia *developed with Dairy Training Centre*. 2017. Supporting Ethiopia's dairy sector: A reflection on EDGET's experience. Available at www.snv.org/project/enhancing-dairy-sector-growth-ethiopia/.
- Soquetta, M. B., L.M Terra, and C. P. Bastos. 2018. Green technologies for the extraction of bioactive compounds in fruits and vegetables. *CyTA-Journal of Food*, 16:1, 400-412, DOI: 10.1080/19476337.2017.1411978.
- Soria, A.C. and M. Villamiel. Effect of ultrasound on the technological properties and bioactivity of food: A review. *Trends Food Sci. Technol.* 2010, 21, 323–331.
- Spelman, K., J. J. Burns, D. Nicholas, N. Winters, S. Ottersberg, and M. Tenborg. 2006. Modulation of Cytokine Expression by Traditional Medicines: A Review of Herbal Immunomodulators. *Alternative Medicine Review.* 11(2).
- Stengarde, I., M. Traven, U. Emanuelson, K. Holtenius, J. Hultgren, and R. Niskanen. 2008. Metabolic profiles in five high-producing Swedish dairy herds with a history of abomasal displacement and ketosis. *Acta Veterinaria Scandinavica.* 50: 31-41.
- Sudarsono, P. A., D. Gunawan, S. Wahyuono, I. A. Donatus, dan M. Drajad. 1996. *Tumbuhan Obat*. Yogyakarta: Pusat Penelitian Obat Tradisional UGM. pp:30-35.
- Sudarwanto, B, dan A. Agus Hermawan. 2009. *Prospek Pengembangan Sapi Perah di Indonesia*. Available at: <http://www.litbang.pertanian.go.id/buku/reformasi-kebijakan-menuju/BAB-III-5.pdf>. Diakses pada tanggal 15 Februari 2018.
- Sudarwanto, M. 1999. Usaha peningkatan produksi susu melalui program pengendalian mastitis subklinis, *Orasi Ilmiah, FKH. IPB. Bogor*.
- Suharyono, I., L. Farida, A. Kurniawati, dan Adiarto. 2007. Efek suplementasi pakan terhadap puncak produksi susu sapi perah pada laktasi pertama. *Semiloka Nasional Prospek Industri Sapi Perah Menuju Perdagangan Bebas*

- 2020. Prosiding Prospek Industri Sapi Perah Menuju Perdagangan Bebas 2020. Perpustakaan Puslitbangnak. Jakarta.
- Sukanten, S., K. Puma, and I. M. Nitis. 1994. Effect Of Cutting Height On The Growth Of Glirisidia Sepium Provenances Grown Under Alley Cropping System. Proc. 7th MAP.Animal Congress. Bali. ISPI. 505 -506.
- Suliantoro, E. L. 2008. Citra: Batik Indigofera Telah 100 Tahun Terpuruk. Kedaulatan Rakyat. 5 Mei 2008.
- Sumaryono, W. 2002. Penelitian Obat Tradisional Indonesia dan Strategi Peningkatannya. Prosiding Seminar Nasional Tumbuhan Obat Indonesia XXI. Fakultas Farmasi Universitas Surabaya. Surabaya.
- Susetyo, B. 1980. Padang Penggembalaan. Departemen Ilmu Makanan Ternak Fakultas Peternakan IPB. Bogor.
- Sutrasno, B., E. Siswanto, Sudyono, dan E. Budiarto. 2009. Budidaya dan Pengembangan *Desmodium* di BBPTU Sapi Perah Baturraden. BBPTU Sapi Perah Baturraden, Baturraden.
- Tafzi, F. 2016. Sekolah Identifikasi dan Mekanisme Komponen Bioaktif Ekstrak Daun Torbangun (*Plectranthus amboinicus* (Lour.) Spreng) sebagai Antioksidan dan Fungsi Laktasi pada Sel Epitel Kelenjar Susu Manusia secara In Vitro. Disertasi. Sekolah Pascasarjana Institut Pertanian Bogor.
- Taiz, L and Zeiger, E. (2002). Plant physiology, Third edition. Sinauer Assoc. 690 p. ISSN: 87893-823-0, USA.
- Tasse, A. M., dan F. A. Auza. 2014. Konsentrasi Asam Lemak Tidak Teresterifikasi (Nonesterified Fatty Acid, NEFA), Albumin, Kalsium dan Fosfor Dalam Plasma Sebagai Indikator Status Nutrisi Sapi Perah Laktasi. JITRO 1(1).
- Tillman, A. D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo, dan S. Lebdoesoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press. Yogyakarta.
- Tiwari, B.K. Trends in Analytical Chemistry Ultrasound: A clean, green extraction technology. TrAC Trends Anal. Chem. 2015, 71, 100–109.
- Tiwari, R., dan C. S. Rana. 2015. Plant Secondary Metabolites: a review. International Journal of Engineering Research and General Science Volume 3, Issue 5, September-October, 2015. ISSN 2091-2730
- Tizard, I. 2000. Veterinary Immunology An Introduction. Ed ke-6. Philadelphia: WB Saunders Company.
- Tokita, N., M. Shimojo, and Y. Masuda. 2006. Amino Acid Profiles of Tropical Legumes, Cooper (*Glycine wightii*), Tinaroo (*Neonotonia wightii*) and Siratro (*Macroptilium atropurpureum*), at Pre-blooming and Blooming Stages Asian-Aust. J. Anim. Sci. 2006. Vol 19, No. 5 : 651-654.
- Triakoso, N. 2009. Penyakit Metabolik Pada Sapi Perah: Dampaknya terhadap respon kekebalan dan penyakit-penyakit lain. Disampaikan pada Continuing Education PDHI Jatim2 di KUD DAU Malang, 16 Juli 2009.
- Trinadewi, A. A. A. S., dan I G. L. O. Cakra. 2015. Kecernaan In-vitro tanaman kaliandra (*Calliandra calothyrsus*) berbunga merah dan putih. Pastura

- (Journal of Tropical Forage Science). Vol. 5 No. 1, Agustus. ISSN 2088-818X. Denpasar. Himpunan Ilmuwan Tumbuhan Pakan Indonesia (HITPI).
- Uddin, G., T. U. Rehman, M. Arfan, W. Liaqad, M. Kaisar, A. Rauf, G. Mohammed, M.S. Afriadi, and M. Q. Qoudhari MQ. 2011. Phytochemical and Biology Screening of the Seed of Indigofera herantha. Middle East Journal of Scientific Research. 8(1): 186-190.
- UNESCO. Culture and Health, Orientation Texts – World Decade for Cultural Development 1988 – 1997.
- Van Kneysel, A.T.M., H. van den Brand, and J. Dijkstra, B. Kemp. 2007. Effects of dietary energy source on energy balance, metabolites and reproduction variables in dairy cows in early lactation, Therigenology, 2007, 68S, S274-S280.
- Van Saun, R. J. 2002. Metabolic profiling and health risk in transition cows. Proc Am Assoc Bov Pract. 37: 212-213.
- Van Saun. R. J. 2008. Metabolic Profiling of Transition Cows: Can We Predict Impending Problems? Danish Bovine Practitioner Seminar, Middelfart, Denmark, January 24-25.
- Vernon, R. G., and G. M. Pond. 1997. Adaptations of maternal adipose tissue to lactation. J. Mammary Gland Biol. Neoplasia. 2:231–241
- Verpoorte, R. 1998. Exploration of Nature's Chemodiversity: The Role of Secondary Metabolites as Leads in Drug Development. Drug Discovery Today. 3(5): 232-238.
- Vieira, G.S, R. N. Cavalcanti, M. A. A. Meireles, and M. D. Hubinger. Chemical and economic evaluation of natural antioxidant extracts obtained by ultrasound-assisted and agitated bed extraction from jussara pulp (*Euterpe edulis*). J. Food Eng. 2013, 119, 196–204.
- Waghorn, G. C. and W. C. McNabb. 2003. Consequences of plant phenolic compounds for productivity and health of ruminants. In: Exploitation of medicinal properties of plants by animals and man through food intake and foraging behaviour. Nutrition and Behaviour Group Comp. 62(2): 383-392
- Wahyono, T., W. T. Sasongko, M. Sholihah, dan M. R. Pikoli. 2017. Pengaruh penambahan tanin daun nangka (*Artocarpus heterophyllus*) terhadap nilai biologis daun kelor (*Moringa oleifera*) dan jerami kacang hijau (*Vigna radiata*) secara in vitro. Buletin Peternakan. 41(1): 15-25. Februari 2017.
- Waldron M. R., and T. R. Overton. 2006, Integration of metabolism and immunity in periparturient dairy cows. J. Dairy Sci. 87: 105–119.
- Wardyaningrum, D. 2011. Tingkat Kognisi Tentang Konsumsi Susu Pada Ibu Peternak Sapi Perah Lembang Jawa Barat. Jurnal Al-Azhar Indonesia Seri Pranata Sosial. 1: 22.
- Wardyaningrum, Damayanti. (2011). Tingkat Kognisi Tentang Konsumsi Susu Pada Ibu Peternak Sapi Perah Lembang Jawa Barat. Fakultas Ilmu Politik dan Ilmu Sosial. Universitas Al Azhar Indonesia. Vol. 1, No. 1.

- Waterman, P.G. 1992. Roles for secondary metabolites in plants. In Proceedings of the 171st Ciba Foundation Symposium on Secondary Metabolites: Their Function and Evolution. 255-275.
- Wicaksono, H. S., I. Narayani dan I. Setyawati. 2015. Struktur hati mencit (*Mus musculus* L.) Setelah Pemberian Ekstrak Daun Kaliandra Merah (*Calliandra calothyrsus* Meissn.). SIMBIOSIS Journal of Biological Sciences 3 (1), 258-268.
- Wina, E., dan B. Tangendjaja. 1996. Pengaruh Lasalosid dan Monensin dalam Pakan Konsentrat terhadap Performans domba yang diberi Kaliandra. Buletin Peternakan. 20(2): 108-115.
- Woerle, H. J., C. Meyer, J. M. Dostou, N. R. Gosmanov, N. Islam, E. Popa, S. D. Wittlin, S. L. Welle, and J. E. Gerich. 2003. Pathways for glucose disposal after meal ingestion in humans. *Am. J. Physiol. Endocrinol. Metab.* 284, E716–E725.
- Wolff, J. E., E. N. Bergman, and H. H. Williams. 1972. Net metabolism of plasma amino acids by liver and portal-drained viscera of fed sheep. *Am. J. Physiol.* 223:438-446.
- Xin-Fen. 2007. Two Newly Recorded Species of Indigofera (Fabaceae) in China. *Acta Phytotaxonomica Sinica.* 45(6): 841-848.
- Xu, C., Z. Wang, and G. W. Liu. Metabolic characteristic of the liver of dairy cows during ketosis based on comparative proteomics. *Asian–Aust J Anim Sci.* 2008;21(7):1003–1010.
- Zabri, H., C. Kodjo, A. Benie, J. M. Bekro, and Y. A. Bekro. 2008. Phytochemical screening and determination of flavonoids in *Secamone afzeli* (Asclepiadaceae) extracts. *African Journal of Pure and Applied Chemistry.* 2(8): 080-082. Available online at <http://www.academicjournals.org/AJPAC> ISSN 1996 - 0840.
- Zeb, M. A., M. Sajid, and T. U. Rahman. 2017. Phytochemical screening, antidiabetic and antioxidant potential of methanolic extract of *Indigofera heterantha* roots. *Int J Biosci.* 10(5):355-360.
- Zhang, W., J. Xue, X. Yanga and S. Wang. 2011. Abstract: Determination of inorganic and total mercury in seafood samples by a new ultrasound-assisted extraction system and cold vapor atomic fluorescence spectrometry. *Journal of Analytical Atomic Spectrometry.* Available at <https://pubs.rsc.org/en/journals/journal/ja>. Accessed on 27 July 2019.
- Zhao, F. Q., E. K. Okine, C. I. Cheeseman, S. P. Shirazi-Beechey, and J. J. Kennelly. 1998. Glucose transporter gene expression in lactating bovine gastrointestinal tract. *J. Anim. Sci.* 76, 2921–2929.
- Zhao, F. Q., E. K. Okine, C. I. Cheeseman, S. P. Shirazi-Beechey, and J. J. Kennelly. 1998. Glucose transporter gene expression in lactating bovine gastrointestinal tract. *J. Anim. Sci.* 76, 2921–2929.
- Zomer, A. W. M., van der Burg, B., Jansen, G. A., Wanders, R. J. A., Poll-The, B. T., and van der Saag, P. T. 2000. *Journal of Lipid Research*, Volume 41, 2000.

Zuppa AA, Paola S, Claudia O, Chiara C, Valentina C, Costantino R, Piero C, 2010. Safety and efficacy of galactogogues: substances that induce, maintain and increase breast milk production. *Journal of Pharmacology and Pharmaceutical Science* 13(2):162 – 174.