

บรรณานุกรม

เมธา วรรณพัฒน์. 2533. โภชนาศาสตร์สัตว์คีบ瓦อ่อง. พนน์พับบลิชชิ่ง. กรุงเทพฯ. 473 น.

AOAC. 1985. Officials Methods of analysis. Association of Official Analytical Chemists. Washington, D.C.

Bauman, D.E., L.H. Baumgard, B.A. Corl and J.M. Grinari. 2000. Biosynthesis of conjugated linoleic acid in ruminants. Prod. Of the American Soc. of Anim. Sci. 1-15. Available at:<http://www.asas.org/jas/symposia/proceedings/0937.pdf>.

Belury, M.A. 1995. Conjugated dienoic linoleate: a polyunsaturated fatty acids with unique chemical properties. Nutr. Rev. 53: 83-89.

Boniface, A.N., R.M. Murry, and P.J. Hogan. 1986. Optimum level of ammonia in the rumen liquor of cattle fed tropical pasture hay. Proc. Aust. Soc. Anim. Prod. 16:151-154.

Calsamiglia, S. and M.D.Stern. 1995. A three-step in vitro procedure for estimating intestinal digestion of protein in ruminants. J. Anim. Sci. 73: 1459-1465.

Chen, X.B. 1996. An Application Programe for Processing Feed Degradability Data. User Manual. Rowett Research Institute, Bucksburn, Aberdeen, UK.

Czerkawski, J. W., and K.-J. Cheng. 1988. Compartmentation in the rumen. Pages 361-385 in The Rumen Microbial Ecosystem. P. N. Hobson ed. Elsevier Science Publishing, New York.

Devendra, C. 1992. Non-conventional feed resources in Asia and the Pacific: strategies for expanding utilization at the small farm level. FAO/APHCA, Bangkok. FAO Publication. No. 14.

Devendra, C. 2001. Smallholder dairy production systems in developing Countries characteristics, potential and opportunities for improvement-review. Asian-Aust. J. Anim. Sci. 14:104-113.

Erdman, R.A., G. H. Proctor and J. H. Vandersall. 1986. Effect of rumen ammonia concentration on in situ rate and extent of digestion of feedstuffs. J. Dairy Sci. 69: 2312-2320.

Faldet, M.A., L.D. Satter and G.A. Broderick. 1992. Determining optimal heat treatment of soybeans by measuring available lysine chemically and biologically with rats to maximize protein utilization by ruminants. J. Nutr. 122: 151-160.

Goering, H.K. and P.J. Van Soest. 1970. Forage fiber analysis(apparatus, Reagent, Procedures and some Application). Agric. Handbook. N. 397. ARS, USDA, Washington, D.C.

- Griinari, J.M., D.A. Dwyer, M.A. McGuire and D.E. Bauman. 1996. Partially hydrogenated fatty acids and milk fat depression. *J. Dairy Sci.* 79 (Suppl.1) 177 (abs.).
- Ha, Y.L., N.K. Grimm and M.W. Pariza. 1987. Anticarcinogens from fried ground beef: heat-altered derivatives of linoleic acid. *Carcinogenesis.* 8: 1881-1887.
- Hart, F.J. and M. Wanapat. 1992. Physiology of digestion of urea-treated rice straw in swamp buffalo. *Asian-Aust. J. Anim. Sci.* 5:617-622.
- Henderson, C. 1973. The effect of fatty acids on pure cultures of rumen bacteria. *J. Agric. Sci.* 81: 107-112.
- Kelly, M.L., J.R. Berry, D.A. Dwyer, J.M. Griinari, P.Y. Chouinard, M.E. Van Amburgh and D.E. Beaman. 1998. Dietary fatty acid sources affect conjugated linoleic acid concentrations in milk from lactating dairy cows. *The J. of Nutr.* 128 (5): 881-885.
- Kepler, C.R., K.P. Harons, J.J. McNeill and S.B. Tove. 1966. Intermediates and products of the biohydrogenation of linoleic acid by *Butyribrio fibrisovens*. *J. Biol. Chem.* 241: 1350-1354.
- Kim, Y.J., and R.H. Liu. 1999. Selective increase in conjugated linoleic acid in milk fat by crystallization. *J. Food Sci.* 64: 792-795.
- Lana, P., J.B. Russell and M. E. V. Amburgh. 1998. The role of pH in regulation ruminal methane and ammonia production. *J. Anim. Sci.* 76:2190-2196.
- Leng, R.A. 1990. Factors affecting the utilization of poor-quality forages by ruminants particularly under tropical conditions. *Nutri. Res. Rev.* pp. 3-5.
- Leng, R.A. 1993. Quantitative ruminant nutrition – a green science. *Aust. J. Agic. Res.* 44: 363-380.
- Li, Y., M.F. Seifert, D.M. Ney, M. Grahn, A.L. Grant, K.G.D. Allen and B.A. Watkins. 1999. Dietary conjugated linoleic acid alters serum IGF-1 and IGF-1 binding protein concentrations and reduces bone formation in rats fed (n-6) or (n-3) fatty acids. *J. Bone Miner. Res.* 14: 1153-1162.
- Nguyen Van Thu and T.R. Preston. 1999. Rumen environment and feed degradability in swamp buffaloes fed different supplements. *Livestock Res. for Rural Dev.* 11(3): <http://www.Cipav.Org.co/lrrd/lrrd11/3/thu113.htm>.
- National Research Council. 1985. Nutrient Requirements of Sheep. 6th ed. Washington, DC. National Academic Press.

- Odle, J. and D. M. Schaefer. 1987. Influence of rumen ammonia concentration on the rumen degradation rates of barley and maize. *Br. J. Nutr.* 57:127-138.
- Ørskov, E.R. and I. McDonald. 1979. The estimation of protein degradability in the rumen from incubation measurements weighed to rate of passage. *J. Agri. Sci., Camb.* 92:499.
- Pariza, M.W. and W.A. Hargraves. 1985. A beef-derived mutagenesis modulator inhibits initiation of mouse epidermal tumors by 7,12-dimethylbenz[a]anthracene. *Carcinogenesis.* 6: 591-593.
- Parsons, C.M., K. Hashimoto, K.J. Wedekind, Y. Han and D.H. Baker. 1992. Effect of ovenprocessing on availability of amino acids and energy in soybean meal. *Poultry Sci.* 71: 133-140.
- Perdok, H.B. and L.A. Leng. 1989. Effect of supplementation with protein meal on the growth of cattle given a basal diet of untreated ammoniated rice straw. *Asian-Aus. J. Anim. Sci.* 3:269-279.
- Preston, T.R. and R.A. Leng. 1987. Matching Ruminant Production Systems with Available Resources in the Tropics and Subtropics. Armidale, Australia, Penambul Books.
- Rihani, N., W.N. Garrett and R.A. Zinn. 1993. Influence of level of urea and method of supplementation on characteristics of digestion of high-fiber diets by sheep. *J. Anim. Sci.* 71:1657-1665.
- Robinson, P.H., R.E. McQueen and P.L. Buress. 1991. Influence of rumen on increasing animal undegradable protein levels on feed intake and milk production of dairy cows *J. Dairy Sci.* 74:1623-1631.
- Russell, J.B. and H. J. Strobe. 1987. Concentration of ammonia across cell membrane of mixed rumen bacteria. *J. Dairy Sci.* 70: 970-976.
- Russell, J. B., J. D. O'Connor, D. G. Fox, P. J. Van Soest, and C. J. Sniffen. 1992. A net carbohydrate and protein system for evaluating cattle diets: I. Ruminal fermentation. *J. Anim. Sci.* 70:3551-3561.
- Satter, L.D., and L.L. Slyter. 1974. Effect of ammonia concentration on rumen microbial protein production in vitro. *Brit. J. Nutr.* 32:199-208.
- Sehat, N., M.P. Yurawecz, J.A.G. Roach, M.M. Mossoba, J.K.G. Kramer and Y. Ku. 1998. Silverion high-performance liquid chromatographic separation and identification of conjugated linoleic acid isomers. *Lipids.* 33 : 217-222.

- Schwab, C.G. 1995. Protected proteins and amino acids for ruminants. In: Biotechnology in Animal Feeds and Animal Feeding, R.J. Wallace and A. Chesson, Eds. VCH Verlagsgesellschaft MBH, D-Weinheim. pp. 116-141.
- Slyter, L.L. 1976. Influence of acidosis on rumen function. *J. Anim. Sci.* 43:910-929.
- Slyter, L.L., L.D. Satter and D.A. Dinius. 1979. Effect of ruminal ammonia concentration on nitrogen utilization by steers. *J. of Anim. Sci.* 48:906-912.
- Song, M. K. and J. J. Kennelly. 1990. Ruminal fermentation pattern, bacterial population and rumen degradation of feed ingredients as influenced by ruminal ammonia concentration. *J. Anim. Sci.* 68:1110-1120.
- Sugano, M., A. Tsujita, M. Yamashi, M. Noguchi and K. Yamada. 1998. Conjugated linoleic acid modulates tissue levels of chemical mediators and immunoglobulins in rats. *Lipids.* 33: 521-527.
- Wallace, R.J. 1979. Effect of ammonia concentration on the composition, hydrolytic activity and nitrogen metabolism of the microbial flora of the rumen. *J. Appl. Bacteriol.* 47:433-455.
- Wallace, R. J. 1996. Ruminal microbial metabolism of peptides and amino acids. *J. Nutr.* 126:1326S-1334S.
- Wanapat, M. 1985. Improving rice straw quality as ruminant feed by urea-treated in Thailand. In. :Proc. of Relevance of crop residues as animal feeds in developing countries. (M. Wanapat and C.Devendra, eds) Funny Press, Bangkok, Thailand.
- Wanapat, M. 1999. Feeding of ruminants in the tropics based on local feed resources. Khon Kaen Publishing Company Ltd., Khon Kaen, Thailand. 236 p.
- Wanapat, M., and O. Pimpa. 1999. Effect of ruminal NH₃-N levels on ruminal fermentation, purine derivatives, digestibility and rice straw intake in swamp buffaloes. *Asian-Aus. J. Anim. Sci.* 12:904-907.
- Williams, A.G. and G.S. Coleman. 1992. The rumen protozoa. A.G. Williams and G.S. Coleman Eds, Springer-Verlag, London, 441 page.