

## Literature Cited

Alhadhrami, G., and J. T. Huber. 1992. Effects of alfalfa hay of varying fiber fed at 35 or 50% of diet on lactation and nutrient utilization by dairy cows. *J. Dairy Sci.* 75:3091–3099.

Asai, Y., R. Katsuki, A. Matsui, and Y. Nanbo. 1995. Effects of rations and age on mineral concentrations of Thoroughbred mare's colostrum. *J. Equine Sci.* 6:21–24.

Beauchemin, K. A. 1991. Effects of dietary neutral detergent fiber concentration and alfalfa hay quality on chewing, rumen function, and milk production of dairy cows. *J. Dairy Sci.* 74:3140–3151.

Blaser, R. E., R. C. Hammes Jr., J. P. Fontenot, H. T. Bryant, C. E. Polan, D. D. Wolf, F. S. McClaugherty, R. G. Kline, and J. S. Moore. 1986. Forage-Animal Management Systems. Bulletin 86-7. Virginia Agricultural Experiment Station, Virginia Tech, Blacksburg, VA.

Blaxter, K. 1989. *Energy Metabolism in Animals and Man.* Cambridge University Press, New York.

Bramblage, L. R. 1987. Clinical manifestations of disturbed bone formation in the horse. *Proc. Amer. Assoc. Equine Pract.* 33:135–138.

Bridges, C. H., and E. D. Harris. 1988. Experimentally induced cartilaginous fractures (osteochondritis dissecans) in foals fed low-copper diets. *J. Am. Vet. Med. Assoc.* 193:215–221.

Bridges, C. H., and P. G. Moffitt. 1990. Influence of variable content of dietary zinc on copper metabolism of weanling foals. *Am. J. Vet. Res.* 51:275.

Caplan, A. I., and B. D. Boyan. 1994. Endochondral bone formation: the lineage cascade. In: B. K. Hall (Ed.) *Bone. Volume 8: Mechanisms of Bone Development and Growth.* p 1–46. CRC Press, Ann Arbor, MI.

Carlton, W. W., and W. Henderson. 1964. Skeletal lesions in experimental copper-deficiency in chickens. *Avian Dis.* 8:48.

Clarke, L. L., M. C. Roberts, and R. A. Argenzio. 1990. Feeding and digestive problems in horses. *Vet. Clin. N. Amer. Equine Pract.* 6:433–451.

Corbellini, C. N., L. Krook, P. W. Nathanielsz, and F. A. Kallfelz. 1991. Osteochondrosis in fetuses of ewes overfed calcium. *Calcif. Tissue Int.* 48:37.

Csapó, J., J. Stefler, T. G. Martin, S. Makray, and Z. Csapó-Kiss. 1995. Composition of mares' colostrum and milk. Fat content, fatty acid composition and vitamin content. *Int. Dairy J.* 5:393–402.

Csapó-Kiss, Z., J. Stefler, T. G. Martin, S. Makray, and J. Csapó. 1995. Composition of mares' colostrum and milk. Protein content, amino acid composition and contents of macro- and micro-elements. *Int. Dairy J.* 5:403–415.

Cymbaluk, N. F. 1989. Effects of dietary energy source and level of feed intake on growth of weanling horses. *Equine Practice* 11:29–33.

Davis, R. E. 1976. A combined automated procedure for the determination of reducing sugars and nicotine alkaloids in tobacco products using a new reducing sugar method. *Tobacco Science* 20:139–144.

Davison, K. E., G. D. Potter, L. W. Greene, J. W. Evans, and W. C. McMullan. 1991. Lactation and reproductive performance of mares fed added dietary fat during late gestation and early lactation. *J. Equine Vet. Sci.* 2:111–115.

Donowick, W. J., I. G. Mayhew, and D. T. Galligan. 1989. Early diagnosis of cervical vertebral malformation in young Thoroughbred horses, and successful treatment with restricted paced diet and confinement. *Proc. Am. Assoc. Equine Pract.* 35:525.

Doreau, M., S. Boulot, J-P. Barlet, and P. Patureau-Mirand. 1990. Yield and composition of milk from lactating mares: effect of lactation stage and individual differences. *J. Dairy Res.* 57:449–454.

Doreau, M., S. Boulot, D. Bauchart, J-P. Barlet, and W. Martin-Rosset. 1992. Voluntary intake, milk production and plasma metabolites in nursing mares fed two different diets. *J. Nutr.* 122:992–999.

Doreau, M., S. Boulot, and W. Martin-Rosset. 1991. Effect of parity and physiological state in intake, milk production and blood parameters in lactating mares differing in body size. *Anim. Prod.* 53:111–118.

Dupre, J., S. A. Ross, D. Watson, and J. C. Brown. 1973. Stimulation of insulin secretion by gastric inhibitory polypeptide in man. *J. Clin. Endocrinol. Metab.* 37:826–828.

Edwards, H. M. 1983. Calcium and phosphorus role in controlling tibial dyschondroplasia. *Poul. Dig.* 42:28.

Edwards, H. M., and J. R. Veltmann, Jr. 1983. The role of calcium and phosphorus in the etiology of tibial dyschondroplasia in young chicks. *J. Nutr.* 113:1568.

Ekman, S., H. Rodriguez-Martinez, L. Plöen, and Å. Jansson. 1990. Morphology of normal and osteochondrotic porcine articular-epiphyseal cartilage. *Acta Anat.* 139:239–253.

Englyst, H. N., J. Veenstra, and G. J. Hudson. 1996. Measurement of rapidly available glucose (RAG) in plant foods: a potential *in vitro* predictor of the glycaemic response. *Br. J. Nutr.* 75:327–337.

Englyst, H., H. S. Wiggins, and J. H. Cummings. 1982. Determination of the non-starch polysaccharides in plant foods by gas-liquid chromatography of constituent sugars as alditol acetates. *Analyst* 107:307–318.

Evans, J.W. 1971. Effect of fasting, gestation, lactation and exercise on glucose turnover in horses. *J. Anim. Sci.* 33:1001–1004.

Feede, M. R., P. E. Waibel, and R. E. Burger. 1960. Factors affecting the absorbability of certain dietary fats in the chick. *J. Nutr.* 70:447–452.

Freestone, J.F., R. Beadle, and K. Shoemaker. 1992. Improved insulin sensitivity in hyperinsulinaemic ponies through physical conditioning and controlled feed intake. *Equine Vet. J.* 24:184–186.

Gibbs, P. G., G. D. Potter, R. W. Blake, and W. C. McMullan. 1982. Milk production of Quarter horse mares during 150 days of lactation. *J. Anim. Sci.* 54:496–499.

Glade, M. J. 1986. The control of cartilage growth in osteochondrosis: a review. *Equine Vet. J.* 6:175–187.

Glade, M. J., S. Gupta, and T. J. Reimers. 1984. Hormonal responses to high and low planes of nutrition in weanling thoroughbreds. *J. Anim. Sci.* 59:658–665.

Glade, M. J., L. Krook, H. F. Schryver, and H. F. Hintz. 1983. Morphologic and biochemical changes in cartilage of foals treated with dexamethasone. *Cornell Vet.* 73:170–192.

Goedegebuure, S. A., and H. A.W. Hazewinkel. 1986. Morphological findings in young dogs chronically fed a diet containing excess calcium. *Vet. Pathol.* 23:594–605.

Goldring, S. R., and M. B. Goldring. 1996. Cytokines and skeletal physiology. *Clin. Orth. Rel. Res.* 324:13–23.

Goyal, H. O., F. J. MacCallum, M. P. Brown, and J. B. Delack. 1981. Growth rates at the extremities of limb bones in young horses. *Can. Vet. J.* 22:31–33.

Grant, H. W., K. R. Palmer, R. W. Kelly, N. H. Wilson, and J. J. Misiewicz. 1988. Dietary linoleic acid, gastric acid, and prostaglandin secretion. *Gastroenterology* 94:955–959.

Gray, G. M. 1992. Starch digestion and absorption in nonruminants. *J. Nutr.* 122:172–177.

Greiwe, K. M., T. N. Meachem, and J. P. Fontenot. 1989. Effect of added dietary fat on exercising horses. *Proc. Equine Nutr. Physiol. Soc.* 11:101–106.

Greiwe-Crandell, K. M., D. S. Kronfeld, L. S. Gay, and D. Sklan. 1995a. Seasonal vitamin A depletion in grazing horses is assessed better by the relative dose response test than by serum retinol concentration. *J. Nutr.* 125:2711–2716.

Greiwe-Crandell, K. M., D. S. Kronfeld, and D. Sklan. 1995b. Vitamin A and beta-carotene supplementation in horses on different forage systems. *Annales de Zootechnie* 44(Suppl. 1):308.

Griewe-Crandell, K. M., D. S. Kronfeld, L. S. Gay, D. Sklan, and P. A. Harris. 1996. Vitamin A status of neonatal foals assessed by serum retinol concentration and a relative dose response test. *Pferdeheilkunde* 12:181–183.

Greiwe-Crandell, K. M., G. A. Morrow, and D. S. Kronfeld. 1992. Phosphorus and selenium depletion in Thoroughbred mares and weanlings. *Pferdeheilkunde* 1:96–98.

Gunson, D. E., D. F. Kowalczyk, C. R. Shoop, and C. F. Ramberg, Jr. 1982. Environmental zinc and cadmium pollution associated with generalized osteochondrosis, osteoporosis, and nephrocalcinosis in horses. *J. Am. Vet. Med. Assoc.* 180:295.

Hall, J. M. 1989. A review of total dietary fiber methodology. *Cereal Foods World* 34:526–528.

Henson, F. M. D., M. E. Davies, P. N. Shofield, and L. B. Jeffcott. 1996. Expression of *types II, VI* and *X* collagen in equine growth cartilage during development. *Equine Vet. J.* 28:189–198.

Hill, G. M., and E. R. Miller. 1983. Effect of dietary zinc levels on the growth and development of the gilt. *J. Anim. Sci.* 57:106.

Hintz, H. F., R. L. Hintz, and L. D. Van Vleck. 1979. Growth rate of Thoroughbreds. Effect of age of dam, year and month of birth, and sex of foal. *J. Anim. Sci.* 48:480–487.

Hoffman, R. M., D. S. Kronfeld, J. L. Holland, and K. M. Greiwe-Crandell. 1995. Preweaning diet and stall weaning method influences on stress response in foals. *J. Anim. Sci.* 73:2922–2930.

Holland, J. L. 1994. Lecithin containing diets for the horse: acceptance, digestibility, and effects on behavior. M.S. Thesis. Virginia Tech, Blacksburg.

Holland, J. L., D. S. Kronfeld, and T. N. Meacham. 1996. Behavior of horses is affected by soy lecithin and corn oil in the diet. *J. Anim. Sci.* 74:1252–1255.

- Holland, J. L., D. S. Kronfeld, G. A. Rich, K. A. Kline, J. P. Fontenot, T. N. Meachem, and P. A. Harris. 1997. Acceptance of fat and lecithin containing diets by horses. *Appl. Anim. Behav. Sci.* (In press).
- Hollands T. and D. Cuddeford. 1992. Effect of supplementary soya oil on the digestibility of nutrients contained in a 40:60 roughage/concentrate diet fed to horses. *Pferdeheilkunde* 1:128–132.
- Howlett, C. R. 1980. The fine structure of the proximal growth plate and metaphysis of the avian tibia: endochondral osteogenesis. *J. Anat.* 130:745.
- Hunziker, E. B. 1994. Mechanism of longitudinal bone growth and its regulation by growth plate chondrocytes. *Microsc. Res. Tech.* 28:505.
- Hunziker, E. B., R. K. Schenk, and L. M. Cruz-Orive. 1987. Quantitation of chondrocyte performance in growth-plate cartilage during longitudinal bone growth. *J. Bone Joint Surgery* 69:162.
- Hurtig, M. B., S. L. Green, H. Dobson, and J. Burton. 1990. Defective bone and cartilage in foals fed a low-copper diet. *Proc. Am. Assoc. Equine Pract.* 36:637–643.
- Jacobs, K.A. and J.R. Bolton. 1982. Effect of diet on the oral glucose tolerance test in the horse. *J. Am. Vet. Med. Assoc.* 180:884–886.
- Jeffcott, L. B. 1991. Osteochondrosis in the horse – searching for the key to pathogenesis. *Equine Vet. J.* 23:331–338.
- Jeffcott, L. B., and C. J. Savage. 1996. Nutrition and the development of osteochondrosis (dyschondroplasia). *Pferdeheilkunde* 12:1.
- Jeffcott, L.B., J.R. Field, J.G. McLean, and K. O’Dea. 1986. Glucose tolerance and insulin sensitivity in ponies and Standardbred horses. *Equine Vet. J.* 18:97–101.
- Jensen, R., R. D. Par, L. H. Lauerman, P. M. Braddy, D. P. Horton, D. E. Flack, M. F. Cox, N. Einertson, G. K. Miller, and C. E. Rehfeld. 1981. Osteochondrosis in feedlot cattle. *Vet. Pathol.* 18:529.

Kaneko, J. J. 1989. Carbohydrate metabolism and its diseases. In: Kaneko, J. J. (Ed.) *Clinical Biochemistry of Domestic Animals* (4th Ed.). p 44–85. Academic Press, Inc., San Diego.

Knight, D. A., A. A. Gabel, S. M. Reed, R. M. Embertson, W. J. Tyznik, and L. R. Bramlage. 1985. Correlation of dietary mineral to incidence and severity of metabolic bone disease in Ohio and Kentucky. *Proc. Am. Assoc. Equine Pract.* 31:445–461.

Knight, D. A., S. E. Weisbrade, L. M. Schmall, and A. A. Gabel. 1988. Copper supplementation and cartilage lesions in foals. *Proc. Am. Assoc. Equine Pract.* 33:191.

Kronfeld, D. S. 1996. Dietary fat affects heat production and other variables of equine performance, especially under hot and humid conditions. *Equine Vet. J. (Suppl.)* 22:24–34.

Kronfeld, D. S. 1997. Variations in energy requirements of horses and errors in estimation of pasture intake. *Proc. Equine Nutr. Physiol Soc.* 15:383.

Kronfeld, D. S., W. L. Cooper, K. M. Crandell, L. S. Gay, R. M. Hoffman, J. L. Holland, J. A. Wilson, D. Sklan, and P. A. Harris. 1996. Supplementation of pasture for growth. *Pferdeheilkunde* 12:317–319.

Kronfeld, D. S., P. L. Ferrante, and D. Grandjean. 1994. Optimal nutrition for athletic performance, with emphasis on fat adaptation in dogs and horses. *J. Nutr. (Suppl.)* 124:2745S–2753S.

Kronfeld, D. S., T. N. Meachem, and S. Donoghue. 1990. Dietary aspects of developmental orthopedic disease in young horses. *Vet. Clin. N. Amer. Equine Pract.* 6:451–466.

Kronfeld, D. S. and P. J. Van Soest. 1976. Carbohydrate nutrition. *Comp. Anim. Nutr.* 1:23–73.

Krook, L., and G. A. Maylin. 1988. Fractures in Thoroughbred race horses. *Cornell Vet.* 78 (Suppl. 11):5–133.

Leach, R. M. Jr., and C. V. Gay. 1987. Role of epiphyseal cartilage in endochondral bone formation. *J. Nutr.* 117:784.

- Leach, R. M., and M. S. Lilburn. 1992. Current knowledge on the etiology of tibial dyschondroplasia in the avian species. *Poultry Science Rev.* 4:57–65.
- Licata, A. A. 1992. Stress fractures in young athletic women: case reports of unsuspected cortisol-induced osteoporosis. *Med. Sci. Sports Exer.* 24:955–957.
- Lilburn, M. S., T. J. Lauterio, K. Ngiam-Rilling, and J. H. Smith. 1989. Relationships among mineral balance in the diet, early growth manipulation, and incidence of tibial dyschondroplasia in different strains of meat type chickens. *Poul. Sci.* 68:1263.
- Lillich, J. D., A. L. Bertone, D. J. Malemud, S. E. Weisbrode, A. J. Ruggles, S. Stevenson. 1997. Biochemical, histochemical, and immunohistochemical characterization of distal tibial osteochondrosis in horses. *Am. J. Vet. Res.* 58:89–98.
- Lok, F., J. A. Owens, L. Mundy, J. S. Robinson, and P. C. Owens. 1996. Insulin-like growth factor I promotes growth selectively in fetal sheep in late gestation. *Am. J. Physiol.* 270:R1148–R1155.
- McClure, J. J. 1993. The immune system. In: A. O. McKinnon and J. L. Voss (Eds.). *Equine Reproduction.* p 1003–1016. Lea & Febiger, Philadelphia, PA.
- McCumbee, W. D. and H. E. Lebovitz. 1980. Hormone responsiveness of a transplantable rat chondrosarcoma I. In vitro effects of growth hormone-dependent serum factors and insulin. *Endocrinology* 106:905–910.
- McIlwraith, C. W. 1996. The equine skeleton: how does bone grow and how do abnormalities in the developmental process affect soundness? (Part 1). *World Equine Vet. Review* 1:25–29.
- Mol, J. A., and A. Rijnberk. 1989. Pituitary function. In: Kaneko, J. J. (Ed.) *Clinical Biochemistry of Domestic Animals* (4th Ed.). p 576–609. Academic Press, Inc., San Diego.
- Moore-Colyer, M., J. J. Hyslop, A. C. Longland, and D. Cuddeford. 1997. Degradation of four dietary sources by ponies as measured by the mobile bag technique. p 118–121. *Proc. 15th Equine Nutr. Physiol. Soc., Ft. Worth, TX.*



Nakano, T., J. J. Brennan, and F. X. Aherne. 1987. Leg weakness and osteochondrosis in swine: a review. *Canad. J. Anim. Sci.* 67:883.

NRC. 1978. *Nutrient Requirements of Horses* (4th Ed.). National Academy Press, Washington, DC.

NRC. 1989. *Nutrient Requirements of Horses* (5th Ed.). National Academy Press, Washington, DC.

Orth, M. W., and M. E. Cook. 1994. Avian tibial dyschondroplasia: a morphological and biochemical review of the growth plate lesion and its causes. *Vet. Pathol.* 31:403–414.

Ostreicher, P., and R. J. Cousins. 1985. Copper and zinc absorption in the rat. Mechanism of mutual antagonism. *J. Nutr.* 115:159.

Ott, E. A. and R. L. Asquith. 1986. Influence of level of feeding and nutrient content of the concentrate on growth and development of yearling horses. *J. Anim. Sci.* 62:290–299.

Pagan, J. D., B. Essem-Gustavsson, and A. Lindholm. 1987. The effects of dietary energy source on exercise performance in Standardbred horses. In: J. R. Gillespie and N. E. Robinson (Eds.) *Equine Exercise Physiology 2*. p 686–700. ICEEP Publications, Davis, CA.

Pagan, J. P., and H. F. Hintz. 1986. Composition of milk from pony mares fed various levels of digestible energy. *Cornell Vet.* 76:139–148.

Palmquist, D. L., T. C. Jenkins, and A. E. Joyner. 1986. Effect of dietary fat and calcium sources on insoluble soap formation in the rumen. *J. Dairy Sci.* 69:1020–1025.

Potter, G. D., S. L. Hughes, T. R. Julen, and D. L. Swinney. 1992. A review of research on digestion and utilization of fat by the equine. *Pferdeheilkunde* 1:119–123.

Ralston, S. L. 1996. Hyperglycemia/hyperinsulinemia after feeding a meal of grain to young horses with osteochondritis dissecans (OCD) lesions. *Pferdeheilkunde* 12:320–322.

Ralston, S.L. 1992. Effect of soluble carbohydrate content of pelleted diets on postprandial glucose and insulin profiles in horses. *Pferdeheilkunde* 1:112–115.

Reddi, A. H., and N. E. Sullivan. 1980. Matrix-induced endochondral bone differentiation: influence of hypophysectomy, growth hormone, and thyroid-stimulating hormone. *Endocrinology* 107:1291–1299.

Reed., S. M., D. A. Knight, and S. E. Weisbrode. 1987. The relationship of cervical vertebral malformation to developmental orthopedic disease. *Proc. Amer. Assoc. Equine Pract.* 33:139–142.

Rich, V. A. B. 1980. Digestibility and palatability of animal, vegetable and animal-vegetable blended fats by the equine. Ph.D. Dissertation. Virginia Tech, Blacksburg.

Roberts, M.C. and F.W.G. Hill. 1973. The oral glucose tolerance test in the horse. *Eqine Vet. J.* 5:171–173.

Rodiek, A., S. Bonvicin, C. Stull, and M. Arana. 1991. Glycemic and endocrine responses to corn or alfalfa prior to exercise. *Equine Exercise Physiology* 3:323–330.

Root, A. W. 1990. Effects of undernutrition on skeletal development, maturation, and growth. In: D. J. Simmons (Ed.) *Nutrition and Bone Development*. p 114–130. Oxford University Press, New York.

Rosen, C. J., L. R. Donahue, and S. J. Hunter. 1994. Insulin-like growth factors and bone: the osteoporosis connection. *Proc. Soc. Exp. Biol. Med.* 206:83–102.

Saastamoinen, M. 1990. Factors affecting growth and development of foals and young horses. *Acta Agric. Scand.* 40:387–396.

Saastamoinen, M. T., S. Hyyppä, and K. Huovinen. 1994. Effect of dietary-fat supplementation and energy-to-protein ratio on growth and blood metabolites of weanling foals. *J. Anim. Physiol. Anim. Nutr.* 71:179–188.

Savage, C. J., R. N. McCarthy, and L. B. Jeffcott. 1993a. Effects of dietary energy and protein on induction of dyschondroplasia in foals. *Equine Vet. J. Suppl.* 16:74.

- Savage, C. J., R. N. McCarthy, and L. B. Jeffcott. 1993b. Effects of dietary phosphorus and calcium on induction of dyschondroplasia in foals. *Equine Vet. J. Suppl.* 16:80–83.
- Smith, D. 1981. Removing and analyzing total nonstructural carbohydrates from plant tissue. University of Wisconsin-Madison Research Report R2107, Agricultural Bulletin Building, Madison, WI.
- Spencer, E. M. 1989. Endocrinology of bone formation. In: D. R. Campion, G. J. Hausman, and R. J. Martin (Ed.) *Animal Growth Regulation*. p 21–47. Plenum Press, New York.
- Sprouse, R. F., H. E. Garner, and E. M. Green. 1987. Plasma endotoxin levels in horses subjected to carbohydrate induced laminitis. *Equine Vet. J.* 9:25–28.
- Stashak, T. S. 1987. *Adam's Lameness in Horses* (4th Ed.). Lea & Febiger, Philadelphia, PA.
- Stockwell, R. A. 1979. *Biology of Cartilage Cells*. Cambridge University Press, Cambridge, U. K.
- Stull, C.L. and A.V. Rodiek. 1988. Responses of blood glucose, insulin and cortisol concentrations to common equine diets. *J. Nutr.* 22:206–213.
- Sutton, J. D., and S. V. Morant. 1989. A review of the potential of nutrition to modify milk fat and protein. *Livestock Prod. Sci.* 23:219–237.
- Taylor, L. E., P. L. Ferrante, J. A. Wilson, and D. S. Kronfeld. 1995. Acid-base variables during incremental exercise in sprint-trained horses fed a high-fat diet. *J. Anim. Sci.* 73:2009–2018.
- Thompson, K. 1995. Skeletal growth rates of weanling and yearling thoroughbred horses. *J. Anim. Sci.* 73:2513–2517.
- Thompson, K. N., J. P. Baker, and S. G. Jackson. 1988a. The influence of supplemental feed on growth and bone development of nursing foals. *J. Anim. Sci.* 66:1692–1696.

Thompson, K. N., S. G. Jackson, and J. P. Baker. 1988b. The influence of high planes of nutrition on skeletal growth and development of weanling horses. *J. Anim. Sci.* 66:2459–2467.

Thorp, B. H., S. Ekman, S. B. Jakowlew, and C. Goddard. 1995a. Porcine osteochondrosis: deficiencies in transforming growth factor- $\beta$  and insulin-like growth factor-I. *Calcif. Tissue Int.* 56:376–381.

Thorp, B. H., S. B. Jakowlew, and C. Goddard. 1995b. Avian dyschondroplasia: local deficiencies in growth factors are integral to the aetiopathogenesis. *Avian Pathol.* 24:135–148.

Tillman, A. D. and J. R. Brethour. 1958. The effect of corn oil upon metabolism of calcium and phosphorus by sheep. *J. Anim. Sci.* 17:782–786.

Tsukahara, J., and B. K. Hall. 1994. Transmembrane signaling in bone cell differentiation. In: B. K. Hall (Ed.) *Bone. Volume 8: Mechanisms of Bone Development and Growth.* p 109–133. CRC Press, Ann Arbor, MI.

Ullrey, D. E., E. R. Miller, B. E. Brent, B. L. Bradley, and J. A. Hofer. 1967. Swine hematology from birth to maturity IV. Serum calcium, magnesium, sodium, potassium, copper, zinc and inorganic phosphorus. *J. Anim. Sci.* 26:1024.

Ullrey, D. E., R. D. Struthers, D. G. Hendricks, and B. E. Brent. 1966. Composition of mare's milk. *J. Anim. Sci.* 25:217–222.

Van Soest, P. J. 1963. Use of detergents in the analysis of fibrous feeds. *J. Assoc. Off. Anal. Chem.* 46:829.

Van Soest, P. J., J. B. Robertson, and B. A. Lewis. 1991. Methods for dietary fiber, neutral detergent fiber and nonstarch polysaccharides in relation to animal nutrition. *J. Dairy Sci.* 74:3583–3597.

Vasilatos-Younken, R., and R. M. Leach, Jr. 1986. Episodic patterns of growth hormone secretion and growth hormone status of normal and tibial dyschondroplastic chickens. *Growth* 50:84–94.

Vivrette, S. L., T. J. Reimers, and L. Krook. 1984. Skeletal disease in a hypothyroid foal. *Cornell Vet.* 74:373–386.

White, T. W., R. B. Grainger, F. H. Baker, and J. W. Stroud. 1958. The effect of supplemental fat on digestion and the ruminal calcium requirement of sheep. *J. Anim. Sci.* 17:797–803.

White, S. L., G. N. Rowland, and R. H. Whitlock. 1984. Radiographic, macroscopic, and microscopic changes in growth plates of calves raised on hard flooring. *Am. J. Vet. Res.* 45:633.

Williams, M. A. and D. C. Pugh. 1993. Developmental orthopedic disease: minimizing the incidence of a poorly understood disorder. *Equine Athlete* 15:859–872.

Williams, M., H. Stowe, and R. Stickle. 1989. Relationships of nutrition and management factors to incidence of equine developmental orthopedic disease: a field survey. *Proc. 7th International Conference on Production Disease in Farm Animals.* p 32. Ithaca, NY.

Wilson, J. A., D. S. Kronfeld, W. L. Cooper, and D. Sklan. 1997. Seasonal variation in the nutrient composition of northern Virginia forages. p 336–331. *Proc. 15th Equine Nutr. Physiol. Soc., Ft. Worth, TX.*

Wilson, J. A., J. H. Williams, D. S. Kronfeld, L. S. Gay, T. M. Wilson, and P. L. Ferrante. 1994. Sarcoplasmic reticulum responses to high intensity exercise and conditioning in horses. In: J. R. Gillespie and N. E. Robinson (Eds.) *Equine Exercise Physiology 2.* p 111. ICEEP Publications, Davis, CA.

Wuthier, R. E. 1982. A review of the primary mechanism of endochondral calcification with special emphasis on the role of cells, mitochondria, and matrix vesicles. *Clin. Orthop.* 169:219–242.

Zentek, J., A. Nyari, and H. Meyer. 1992. Investigations on postprandial H<sub>2</sub>- and CH<sub>4</sub>-exhalation in the horse. *Pferdeheilkunde* 1:64–66.