



## บรรณานุกรม

- กระสินธุ์ นพรัตน์ไมตรี. (2551). ผลของสมุนไพรฟ้าทลายโจรและไพลต่อสมรรถนะการผลิตการย่อยได้ของโภชนะ และสุขภาพในลูกสุกรหย่านม. วิทยานิพนธ์ปริญญาโทมหาบัณฑิต สาขาวิชาสัตวศาสตร์. มหาวิทยาลัยขอนแก่น.
- พัชรี บุญศิริ, เปรมใจ อารีจิตรานุสรณ์, อุบล ชาอ่อน และปิติ ฐวจิตต์. (2551). ตำราชีวเคมี. พิมพ์ครั้งที่ 5. ขอนแก่น: คลังปัญญา.
- สมชัย พงศ์จรรยากุล. (2529). จุลกายวิภาคศาสตร์ทางสัตวแพทย์ (เซลล์และเนื้อเยื่อ). คณะสัตวแพทยศาสตร์: มหาวิทยาลัยเกษตรศาสตร์.
- สุทธิพันธ์ สารสมบัติ, วิบูลย์ศรี พิบลพันธุ์, นภาพร บานชื่น, ทศนีย์ สุโกศล, ชารารัชต์ ชารากุล, ศันสนีย์ เสนะวงษ์ และสิริฤกษ์ ทรงศิริวิไล. (2542). อิมมูโนวิทยา. พิมพ์ครั้งที่ 4. กรุงเทพฯ: พิเอสชาชนเทคนิคัล.
- Alpers, D.H. (2006). Glutamine: do the data support the cause of glutamine supplementation in humans? Gastroenterology: 106-116.
- AOAC. (1990). Official methods of analysis (15<sup>th</sup> ed.). Association of Analytical Chemists. Washington, DC.
- Bartell, S.M. and Batal, A.B. (2007). The effect of supplemental glutamine on growth performance, development of the gastrointestinal tract, and humoral immune response of broiler. J. Poult. Sci. 86: 1940-1947.
- Calder, P.C. and Yaqoob, P. (1999). Glutamine and the immune system. J. Amino Acids. 17: 227-241.
- Carstensen, L., Annette, K.E., Karin, H.J. and Jens, P.N. (2005). Escherichia coli post-weaning diarrhea occurrence in piglets with monitored exposure to creep feed. Vet. Micro. 110: 113-123.
- Dharmananda, S. (2008). Amino acid supplement I: Glutamine [Online]. Available: [www.itmonline.org/arts/glutamine.html](http://www.itmonline.org/arts/glutamine.html)
- Dibner, J.J. and Richards, J.D. (2004). The digestive system: challenges and opportunities. J. Appl. Poult. Res. 13: 86-93.
- Engle, T.E., Spears, J.W., Brown Jr, T.T., and Lloyd, K.E. (1999). Effect of breed (Angus vs. Simmental) on immune function and response to a disease challenge in stressed steers and preweaned calves. J. Anim. Sci. 77: 516-521.

- Fischer da Silva, A.V., Maiorka, A., Borges, S.A., Santin, E., Boleli, I.C. and Macari, M. (2007). Surface area of the tip of the enterocytes in small intestine mucosa of broilers submitted to early feed restriction and supplemented with glutamine. Int. J. Poult. Sci. 6: 31-35.
- Frederick, H., Martini, E. and Bartholomew, F. (1997). Essentials of anatomy and physiology. U.S.A: Prentice-Hall Inc.
- Hartke, J.L., Monaco, M.H., Wheeler, M.B. and Donovan, S. M. (2005). Effect of a short-term fast on intestinal disaccharidase activity and villus morphology of piglets suckling insulin-like growth factor-I transgenic sows. J. Anim. Sci. 83: 2404-2413.
- Hedemann, M.S., Mikkelsen, L.L., Naughton, P.G. and Jensen, B.B. (2006). Effect of feed particle size and feed processing on morphological characteristics in the small and large intestine of pigs and on adhesion of *Salmonella enterica* serovar Typhimurium DT12 in the ileum in vitro. J. Anim. Sci. 83: 1554-1562.
- Izat, A.L., Thomas, R.A. and Adams, M.H. (1989). Effects of dietary antibiotic treatment on yield of commercial broilers. Poult. Sci. 68: 651-655.
- Johnson, I.R., Ball, R.O., Baracos, V.E. and Field, C.J. (2006). Glutamine supplementation influences immune development in the newly weaned piglet. Dev. Comp. Immunol. 30: 1191-1202.
- Lija, C. (1983). A comparative study of postnatal growth and organ development in some species of birds. Growth, 47: 317-339.
- Kandil, H.L., Argenzio, R.A., Chen, W., Berschneider, H.M., Stiles, A.D., Westwich, J.K., Rippe, R.A., Brenner, D.A. and Rhods, J.M. (1995). L-glutamine and L-asparagine stimulate ODC activity and proliferation in a porcine jejunum enterocyte line. Physiol. 269: 591-599.
- Kitt, S.J., Miller, P.S., Lewis, A.J. and Fischer, R.L. (2002). Effects of glutamine on growth performance and small intestine villus height in weanling pigs. Lincoln: University Nebraska.
- Krebs, H. (1980). Glutamine metabolism in the animal body. In Glutamine: metabolism, enzymology, and regulation. New York, Academic Press.
- Maiorka, A., Slila, A.V.F., Santin, E., Borges, S.A., Boleli, I.C. and Macari, M. (2000). Influence da suplementacao de glutamine sobre o desempenho e o desenvolvimento de vilos e criptas do intestine delgado de frangos. Arq. Bras. Med. Vet. Zoot. 52: 487-490.
- Miller, A.L. (1999). Therapeutic considerations of L-glutamine: a review of the literature. Altern. Med. Rev. 4: 239-248.

- Morse, R. (1999). Biochemistry [Online]. Available: [www.library.csi.cuny.edu/.../lect23/lect23.html](http://www.library.csi.cuny.edu/.../lect23/lect23.html)
- Murakami, A.E., Sakamoto, M.I., Natali, L.M.G., Souza, L.M.G. and Farnco, J.R.G. 2007. Supplementation of glutamine and vitamin E on the morphometry of the intestinal mucosa in broiler chickens. Poult. Sci. 86: 488-495.
- Nitsan, Z.G., Avraham, B., Zoref, Z. and Nir, I. (1991). Organ growth and digestive enzymes levels to fifteen days of age in lines of chickens differing in body weight. Poult. Sci. 70: 2040-2048.
- SAS Institute. (1996). SAS User's Guide : Statistics®. SAS Institute Inc. Cary, NC.
- National Research Council. 1994. Nutrient Requirement of Poultry. 9<sup>th</sup> rev. ed. National Academy Press. Washington, DC.
- Roth, E. (2008). Nonnutritive effects of glutamine. J. Nutr. 138(10): 2025-2030.
- Reeds, P. J. and Burrin, D. G. (2001). Glutamine and the bowel. J. Nutr. 131: 2505-2508.
- Sakamoto, M.F., Murakami, A.E., Silveira, T.G.V., Fernandes, J.I.M and de Oliveira, C.A.L. (2007). Influence of glutamine and vitamine E on the performance and the immune responses of broiler chickens. Brazilian J. Poult. Sci. 8: 243-249.
- Soltan, M.A. (2009). Influence of dietary glutamine supplementation on growth performance, small intestinal morphology, immune response and some blood parameters of broiler chickens. Int. J. Poult. Sci. 8: 60-68.
- Sornsuvit, C. (2007). Parenteral glutamine peptide supplementation in acute myeloid leukemia patients receiving chemotherapy: effects on neutrophil function, prevention of chemotherapy-induced side-effects and impact on cost effectiveness. Ph.D. Thesis (Nutrition). Mahidol University.
- Tapiero, H., Mathe, G., Couvreur, P., Tew, K.D. (2002). II. glutamine and glutamate. Biomed Pharmacother 56: 446-457.
- Windmueller, H.G. and Spaeth, A.E. (1980). Respiratory fuels and nitrogen metabolism *in vivo* in small intestine of fed rats: Quantitative importance of glutamine, glutamate, and aspartate. J. Biol. Chem. 255: 107-112.
- Wu, G., Thompson, J.R. and Baracos, V.E. (1991). Glutamine metabolism in skeletal muscles from the broiler chick (*Gallus domesticus*) and the laboratory rat (*Rattus norvegicus*). Biochem. J. 274: 769-774.

- Yi, G.F., Carroll, J.A., Allee, G.L., Gaines, A.M., Kendall, D.C., Usry, J.L., Toride, Y. and Izuru, S. (2005). Effect of glutamine and spray-dried plasma on growth performance, small intestinal morphology, and immune responses of Escherichia coli K88+ challenged weaned pigs. J. Anim Sci. 83: 634-643.
- Yi, G.F., Allee, G.L., Frank, J.W., Spencer, J.D and Touchette, K.J. (2001). Impact of glutamine, menhaden fish meal, and spray-dried plasma on the growth and intestinal morphology of broilers. Poult. Sci. 80(Suppl. 1): 201. (Abstr.)
- Yu, I.T., Wu, J.F., Yang, P.C., Liu, C.Y., Lee, D.N. and Yen, H.T. (2002). Roles of glutamine and nucleotides in combination in growth, immune responses and FMD antibody titers of weaned pigs. Br. J. Anim Sci. 75: 379-385.
- Zou, X.T., Zheng, G.H., Fang, X.J. and Jiang, J.F. (2006). Effects of glutamine on growth performance of weanling piglets. Czech. J. Anim. Sci. 51: 444-448.