

## DAFTAR PUSTAKA

- Allama, H., O. Sofyan, E. Widodo dan H. S. Prayogi. 2012. Pengaruh penggunaan tepug ulat kandang (*Alphitobius diaperinus*) dalam pakan terhadap penam pilan produksi ayam pedaging. *Journal of Ilmu –Ilmu Peternakan*. 22(3): 1-8.
- Aletor, I., I. Hamid dan E. Pfeffer. 2000. Low protein, amino acid supplemented diets in broiler chickens: Effect of performance, carcass characteristics, whole body composition and efficiencies of nutrient utilization. *Journal of Agric Sci.* 80: 547-554
- Amanata, I.A. 2013. Chromium in livestock nutrition: A Review. *Global Advanced Journal of Agricultural Science*. 2(12):289-306.
- Amrullah, I. K. 2003. Manajemen Ternak Ayam Broiler. IPB-Press, Bogor.
- Anderson, R.A. 2000. Chromium in the prevention and control of diabetes. *Diabetes & Metabolism*. 26: 22-27.
- Azmi, J. 2006. Penentuan kondisi optimum fermentasi *Aspergillus oryzae* untuk isolasi enzimamilase pada medium pati biji nangka (*Arthocarpus heterophyllus Lmk*). *Jurnal Biogenesis*. 2(2): 55-58.
- Babalola, T.O., D.F. Apata, J.O. Atteh. 2006. Effect of  $\beta$ -xylanase supplementation of boiled castor seed meal-based diets on the performance, nutrient absorbability and some blood constituents of pullet chicks. *Journal Tropical Sci.* 46: 216–223.
- Badan Standar Nasional Indonesia (SNI). 2006. Pakan Ayam Ras Pedaging (Broiler Finisher). (Online). (<http://ditjennak.go.id.pdf>). Diakses 5 Oktober 2016.
- Bell, D. D and W.D. Weaver, Jr. 2002. Comercial Chicken Meat and Egg Production. 5th Edition. Springer Science and Business Medial Inc, New York.
- Brooke, E. J., W. R. Station and A. W. Bridge. 1969. Fermentation methods for protein enrichment of cassava. *Biotech. Bioeng.* 11: 1271-1284.
- Casewell, M., C. Friis, E. Marco, P. Mullin, I. Phillips. 2003. The European ban on growth-promoting antibiotics and emerging consequences for human and animal health. *Journal of Antimicrobial Chemotherapy*. 52:159–61.
- Crus, R and Y. K. Park. 1982. Production of Fungal  $\alpha$ -Galactosidase and its application to The hydrolysis of galactoligosacharides in soy bean milk. *Journal of Food Sci.* 47:1973

- Direktorat Jendral Perkebunan. 2014. Statistik perkebunan Indonesia komoditas kelapa sawit 2013-2015. Direktorat Jenderal Perkebunan. Jakarta.
- Dwidjoseputro. 1990. Dasar-Dasar Mikrobiologi. Djambatan. Jakarta
- Essa, H.A., K.I. Dhia and K.A. Luma. (2010) Effect of supplementing different levels of chromium yeast to diet on broiler chickens performance. Int. Journal of Poultry Sci. 9(4): 376-381.
- Fadilah, R. 2004. Ayam Broiler Komersial. Agromedia Pustaka. Jakarta.
- Fadilah, R., A. Polana, S. Alam dan E. Purwanto. 2007. Sukses Beternak Ayam Broiler. Cetakan Pertama. P. T. Agromedia Pustaka, Jakarta.
- Hua, Y., S. Clark, J. Ren, N. Sreejayan. 2012. Molecular mechanisms of chromium in alleviating insulin resistance. Journal of Nutrition Biochem. 23(4):313-319.
- Huyghebaert, G. 2005. Alternatives for antibiotics in poultry. In: Zimmermann (Ed). Procedings of the 3rd Mid-Atlantic Nutrition Conference. 36 - 57.
- Islam, M.Z. , Z.H. Khandaker, S.D. Chowdhury and K.M.S. Islam. 2008. Effect of citric acid and acetic acid on the performance of broilers . Bangladesh Agric. Univ. 6(2): 315-320.
- Japfa Comfeed Indonesia. 2012. Catatan Produksi Ayam Broiler. PT. Ciomas Adisatwa. Padang.
- James, R. G. 2004. Modern Livestock and Poultry Production. 7Th Edition. Thomson Delmar Learning Inc. FFA Activities.
- Kim Y.H., I.K. Han, Y.J. Choi, I.S. Shin, B.J. Chae, T.H. Kang. 1996. Effects of dietary levels of chromium picolinate on growth performance carcass quality and serum traits in broiler chickens. Asian Austral Journal Anim. 9(3): 341-347.
- Ketaren, S. 2008. Minyak dan Lemak Pangan. Cetakan Pertama. Universitas Indonesia Press. Jakarta.
- Kegley E.B., J. W. Spears, T. T. Brown. 1997. Effect of shipping and chromium supplementation on performance, immune respon and disease resistance of streest. J Aminal Sci. 75: 1956-1964.
- Kurnia, F., M. Suhardiman, L. Stephani, dan T. Purwadaria. 2012. Peranan nano mineral sebagai bahan imbuhan pakan untuk meningkatkan produktivitas dan kualitas produksi ternak. Wartazoa. 22 (4). 187-193.

- Lien, T.F., Y.M. Horng, and K.H. Yang. 1999. Performance, serum characteristics, carcass traits and lipid metabolism of broilers as affected by supplement of chromium picolinate. Br. Poult. Sci., 40: 357-363.
- Lee, D.N., F.Y. Wu, C.H. Cheng, R.S. Lin and P.C. Wu. 2003. Effects of dietary chromium picolinate supplementation on growth performance and immune responses of broilers. Asian Aust. J. Anim. Sci. 16: 227-233.
- Lesson, S. 2000. Feed Efficiency Still a Usefull Measure of Broilers Performance. Department Animal and Poultry Science. University of Guelph. Ontario.
- Leeson, S., J. D. Summers. 2005. Commercial Poultry Nutrition. Third Edition, Nottingham University Press. Nottingham.
- Maulana, N. 2019. Pengaruh lama fermentasi dengan *Aspergillus oryzae* dan dosis kromium terhadap kandungan lemak kasar BETN dan energi metabolisme bungkil inti sawit. Skripsi Fakultas Peternakan Universitas Andalas. Padang.
- Mirnawati., A. Djulardi dan G. Ciptaan .2016. Peningkatan kualitas bungkil inti sawit dan lumpur sawit melalui aplikasi bioteknologi sebagai bahan pakan unggas rendah kolesterol . Laporan Penelitian Unggulan Perguruan Tinggi. Kontrak No 030/ SP2H/ PL/ DIT LITABMAS/ ii/ 2016. Universitas andalas. Padang
- Muharlien, Achmanu dan A. Kurniawan. 2010. Efek lama waktu pembatasan pemberian pakan terhadap performans ayam pedaging finisher. Jurnal Ternak Tropika. 11(2):88-94.
- Meydia, G. M. 2019. Pengaruh lama fermentasi dengan *Aspergillus oryzae* dan dosis kromium terhadap aktivitas enzim selulase, kandungan serat kasar dan kecernaan serat kasar bungkil inti sawit. Skripsi Fakultas Peternakan Universitas Andalas. Padang.
- National Research Council. 1994. Nutrien Requirement of Poultry. 9<sup>th</sup> edition. National Academic Press. Washington D.C.
- National Research Council. 2001. Nutrient requirements of dairy cattle. 7<sup>th</sup> revised ed. National Academic Press. Washington DC (USA)
- Nur, Y.S. 2012. Biokonversi serat sawit dengan *Aspergillus niger* pensintesa Crorganik sebagai komponen ransum komplit domba. Disertasi Sekolah Pascasarjana Institut Pertanian Bogor. Bogor.
- Nuraini dan Mahendra. 2002. Pengaruh penggunaan bungkil inti sawit dalam ransum ayam broiler. Laporan Penelitian. Fakultas Perternakan Unand Padang.

- Ohh, S.J. and J. Y. Lee. 2005. Dietary Chromium-methionine Chelate Supplementation and animal performance. Journal Animal Sci. Asian Australas. 18: 898–907.
- Pahan, I. 2008. Panduan Lengkap Kelapa Sawit: Manajemen Agribisnis dari Hulu hingga Hilir. Penebar Swadaya. Jakarta
- Rahmawati M. 2004. Terapi nutrisi kromium untuk penderita diabetes. Cermin Dunia Kedokteran. No. 143:51-53
- Raper, K.B dan Fennel, D.I. 1977. The Genus *Aspergillus*. The William and Wilking Co. Baltimore.
- Rasyaf, M. 1992. Produksi dan Pemberian Ransum Unggas. Kanisius. Yogyakarta.
- Rasyaf,M. 2004. Beternak Ayam Pedaging. Penebar Swadaya. Jakarta
- Rizal. 2006. Ilmu Nutrien Unggas. Andalas University Press. Padang.
- Rosita. 2008. Produksi etanol onggok menggunakan ekstrak kasar enzim alfa amilase, glukoamilase, dan *Saccharomyces cerevisiae*. Tesis. SITH-ITB. Bandung.
- Sahin, K., O. Kucuk, N. Sahin and O. Ozbey. 2001. Effects of dietary chromium picolinate supplementation on egg production, egg quality, and serum concentrations of insulin, corticosterone and some metabolites of Japanese quails. Nutr. Res. 21(9): 1315-1321.
- Sahin, K., M. Onderci, N. Sahin, M.F. Gursu, J. Vijaya, O. Kucuk. 2004. Effects of dietary combination of chromium and biotin on egg production, serum metabolites, and egg yolk mineral and cholesterol concentrations in heat-distressed laying quails. Biol Trace Element Res. 101:181-193.
- Saleh, A.A., Y.Z. Eid, T.A. Ebeid, T. Kamizono, A. Ohtsuka and K. Hayashi. 2011. Effects offeeding *Aspergillus awamori* and *Aspergillus niger* on growth performance and meat quality in broiler chickens. Journal Poult Sci. 48:201-206.
- Saleh, A.A., Y.Z. Eid, T.A. Ebeid, A. Ohtsuka, M. Yamamoto and K. Hayashi. 2012. Feeding *Aspergillus awamori* reduces skeletal muscle protein breakdown and stimulates growth in broilers. Anim. Sci. J. 83, 594–598.
- Saleh,A.A. 2012. The effect of feeding *Aspergillus oryzae* on growth performance cascass parameters and some biochemical traits of broilers. Egypt. Poult. Sci. 32 (IV): 749-761.

- Samanta, S., S. Haldar and T.K. Ghosh. (2008) Production and carcass traits in broiler chicken given diets supplemented with inorganic trivalent chromium and an organic acid blend. Br. J. Poult. Sci., 49: 155-163.
- Santoso, U. 2002. Pengaruh tipe kandang dan pembatasan pakan di awal pertumbuhan terhadap performans dan penimbunan lemak pada ayam pedaging unsexed. JITV. 7(2): 84-89.
- Schwartz, K and W. Mertz. 1959. Chromium (III) and the glucose tolerance factor. Arch. Biochem. Biophys. 85 : 292 – 295
- Scoot, M. L , M. C. Nesheim, and R. J. Young. 1982. Nutrition Of the Chicken. 2<sup>n</sup> Edition. M. L, Scottand Associates. Ithaca, New York
- Sinurat AP. 2012. Bungkil inti sawit dalam ransum unggas. Poult. Indonesia. 6:78-79.
- Steel, R. G, dan J. H. teorrie, 1995. Prinsip dan prosedur statistika suatu pendekatan biometric (Terjemahan : Bambang sumantri). PT. Gramedia. Jakarta.
- Suprijatna, E., U. Atmomarsono dan R. Kartasudjana. 2005. Ilmu Dasar Ternak Unggas. Penebar Swadaya. Jakarta
- Suriawiria, U. 1986. Pengantar Mikrobiologi Umum . Penerbit Angkasa. Bandung.
- Susanto, A. 2006. Pengaruh pemberian kromium organik terhadap kinerja pertumbuhan ikan bawal air tawar (*Colossoma macropomum*). Tesis. Pascasarjana Institut Pertanian Bogor.
- Syahruddin E, Herawati R, Yoki. 2013. Pengaruh vitamin C dalam kulit buah nanas (*Ananas comosus L. Merr*) terhadap hormon tiroksin dan anti stress pada ayam broiler didaerah tropik. JITV. 18:17-26.
- Vincent J.B. 2000. The biochemistry of chromium. J. Nutr. 130(4): 715-718.
- Winna, f. 2019. Pengaruh fermentasi dengan *Aspergillus oryzae* dan dosis kromium terhadap bahan kering, protein kasar, dan retensi nitrogen. Skripsi. Fakultas Peternakan Universitas Andalas. Padang
- Yamamoto, M., F. Saleh, M. Tahir, A. Ohtsuka, K. Hayashi. 2007. The effect of koji-fed (fermented distillery by- product) on the growth Performance and nutrient metabolizability in broiler. Journal of Poultry Sci. 44(3): 291- 296
- Yanuartin, C. 2004. Permasalahan kualitas pakan dindonesia. Prosiding Seminar Nasional Parasitologi dan Toksikologi Veteriner. Pusat Penelitian dan Pengembangan Peternakan. Bogor. 127- 130.

Yildiz, A.Ö., S.S. Parlat, O. Yazgan. 2004. The effect of organic chromium supplementation on production traits and some parameters of laying quail. Revue Med Vet. 155:642-646.

Yunilas. 2005. Performans ayam broiler yang diberi berbagai tingkat protein hewani dalam ransum. Jurnal Agribisnis Peternakan. 1(1): 1-5

Zuidhof, M.J., B.L. Scheider, V.L. Carney, D.R. Korver and F.E. Robinson. 2014. Growth, efficiency and yield of commercial broilers from 1957, 1978 and 2005. Journal of Poultry Sci. 93(12): 2970-2976.

