

REFERENCE

- A.O.A.C., 2006. Association of official analytical chemists of official methods of analysis, 18th ed., Washington, D.C.
- Abdi-Hachesoo, B., A. Talebi and S. Asri-Rezaei, 2011. Comparative study on blood profiles of indigenous and ross-308 broiler breeders. *Global Vet.*, 7: 238-241.
- Abdullah, G.D., E. Suprijatna., dan Isroli. 2018. Pengaruh Frekuensi Pemberian Pakan dan Periode Pemberian Pakan terhadap Hematologis Ayam Buras Super Umur 3-12 Minggu. *Jurnal Sains Peternakan Indonesia* 13(2):140-148.
- Abubakar, GT & Sunarti 2005, 'Performans ayam buras dan biosekuriti di Balai Pembibitan Unggul Sapi Dwiguna dan Ayam (Indigenous chicken performance and biosecurity in breeding centre for livestock and poultry)', paper presented to Lokakarya Nasional Inovasi Teknologi Pengembangan Ayam Lokal, Semarang, Indonesia.
- Adeola O and MR Bed Ford. Exogenous dietary xylanase ameliorates viscosity-induced anti-nutritional effects in wheat base diets for white pekin ducks. *British Journal Nutrition*, 92, 2004, 87-94.
- Adriani, L., T.Widjastuti, E. Sudjana, Mushawwir A. and A. Yulianti. 2015. Effect of Combination of Noni (*Morinda citrifolia* L.) Juice and Sugar Palm (*Arenga pinnata*) Supplementation in Drinking Water on Lipid Profile of Broiler Chicken. *Sir. Journal of Nutrition*.14 (8):531-534.
- Aengwanich, W and O. Chinrasri.2002. Effect of heat stress on body temperature hematological parameters in male layers. *Thai J. Physiol.* 15(1):27-33.
- Agoes, R. and S. Masria. 2008. Epidemiology of avian influenza in Indonesia. Why is West Java having the highest endemicity? paper presented to the 3rd ASEAN Congress of Tropical Medicine and Parasitology, Parasites: A Hidden Threat to Global Health Bangkok, Thailand,2223May2008,viewed7/16/2013,<<http://ptat.thaigov.net/Procasean/038042PRS2008.pdf>>.
- Agustanti, L. 2014. Gambaran Sel Darah Putih dan Indeks Stres Ayam Broiler yang Diberi Jamu Bagas Waras (Jahe, Kunyit, Dan Kencur) Melalui Air Minum. Institut Pertanian Bogor. Bogor.
- Ahyodi, F., K. Nova., Dan T. Kurtini.2014. Pengaruh Bobot Telur Terhadap Fertilitas, Susut

Tetas, Daya Tetas Dan Bobot Tetas Telur Kalkun, *Jurnal Ilmiah Peternakan Terpadu*.2(1) :19 – 25

- Aini, I. 1990. Indigenous chicken production in South-east Asia'. *World's Poultry Science Journal*, 46(1): 51-57.
- Aini, I. 2000. Biosecurity in family flock, paper presented to World's Poultry Congress Montreal, Canada, 2000, August 20-24, viewed 6/27/2013.
- Ajuyah, A.O., T.W. Fenton, R.F. Hardin, J.S. Sim. 1993. Measuring lipid oxidation volatiles in meat. *J.Food sci.*58 :270-273.
- Akishinomiya ,F, 1994. "One subspecies of the red junglefowl (*Gallus gallus gallus*) suffices as the matriarchic ancestor of all domestic breeds." *Proceedings of the National Academy of Sciences* 91.26 12505-12509.
- Akter SH, Khan MZI, Jahn MR, Karim MR, Islam MR. Histomorphological study of the lymphoid tissues of broiler chickens. *Bangladesh Journal of Veterinary Medicine* 2006;2:87-92.
- Alam, I.P. 2005. Resistensi ayam lokal Jawa Barat: Ayam Sentul (Resistance of local chicken of West Java: Sentul Chicken)', paper presented to Lokakarya Nasional Inovasi Teknologi Pengembangan Ayam Lokal, Semarang, Indonesia.
- Al-bachir, m. A. H. F. O. U. Z., & zeinou, r. 2006. Effect of gamma irradiation on some characteristics of shell eggs and mayonnaise prepared from irradiated eggs. *Journal of food safety*, 26(4), 348-360.
- Alfian, Dasrul., dan Azhar. 2017. Jumlah Eritrosit, Kadar Hemoglobin Dan Nilai Hematokrit Pada Ayambangkok, Ayam kampung dan Ayam Peranakan. *JIMVET* 1 (3): 533-539.
- Alfiansyah, M. 2011. Anatomy and Digestion of Small Intestines. [http://www. sentra-edukasi.com/](http://www.sentra-edukasi.com/). Accessed on 20 February 2017.
- Alfiyah, V., K. Praseno., Dan S. M. Mardiaty. 2015. Indeks Kuning Telur (IKT) Dan Haugh Unit (HU) Telur Itik Lokal Dari Beberapa Tempat Budidaya Itik Dijawa. *Bulletin Anatomi Dan Fisiologi*. 18(2): 7-15
- Al-Khalifa, H., Givens, D. I., Rymer, C., & Yaqoob, P. 2012. Effect of n-3 fatty acids on immune function in broiler chickens. *Poultry Science*, 91(1), 74-88.
- Anggarayono, A., Wahyuni, H. I., & Tristiarti, T. (2008). Energi metabolis dan pencernaan protein akibat perbedaan porsi pemberian ransum pada ayam petelur (Metabolizable

Energy and Protein Digestibility of Layer Ration as Affected by Different Feeding Portion).

Angkow, M.E., J.R. Leke., E.Pudjihastuti dan L. Tangkau. 2017. Kualitas Internal Telur Ayam MB 402 yang Diberi Ransum Mengandung Minyak Limbah Ikan Cakalang (Katsuwonus pelamis L). Jurnal Zootek 37 (2) : 232-241.

AOAC. 1995. Official methods of Analysis 15th ed. Association of official

AOAC. 1995. Official Methods of Analysis. 16th Ed., AOAC, Washington DC, USA.

Apriliyani, F., N. Suthama dan H. I. Wahyuni. 2013. Lymphocyte heterophyll ratio and relative weight of bursa fabrisius due to the combination of exposure time and provision of different ration portions in broilers. Faculty of Animal Husbandry and Agriculture, University Diponegoro, Semarang. Animal Agriculture Journal, 2. (1): p 393-399

Argo, L B., Tristiarti., dan L. Mangisah. 2013. Kualitas Fisik Telur Ayam Arab Petelur Fase 1 Dengan Berbagai Level Azolla microphylla. Animal Agricultural Journal. 2(1): 445-457

Arija, I., A. Brene, A. Viiveros, R. Elices. 1998. Effect of inclusion of full fat unflower kernels in diets for growkg growing broiler chicken. Anim. feed sci. Tech. 70: 137-14 9.

Arrosichin, K., Yunianto, V. D., & Wahyono, F. 2016. Kandungan kolesterol, High Density Lipoprotein (HDL) dan low density lipopro-tein (LDL) darah burung puyuh dengan pemberian aditif cair buah naga merah. Jurnal Ilmu-Ilmu Peternakan (Indonesian Journal of Animal Science), 26(1), 16-22.

Asmara, I. Y. 2014. Risk status of selected indigenous chicken breeds in Java, Indonesia: Challenges and opportunities for conservation. Charles Darwin University (Australia).

Asmara, IY 2014, 'Risk status of selected indigenous chicken breeds in Java, Indonesia: Challenges and opportunities for conservation', Doctor of Philosophy Thesis, Research Institute for the Environment and Livelihoods, Faculty of Engineering, Health, Science and the Environment, Charles Darwin University, Darwin, NT, Australia.

Asmawati. 2014. The Effect of In Ovo Feeding on Hatching Weight and Small Intestinal Tissue Development of Native Chicken. Dissertation. Postgraduate Program, Hasanuddin University, Makassar.

Asnawi., M. Ichsan., dan N. K. D. Haryani.2017. Nilai Nutrisi Pakan Ayam Ras Petelur Yang Dipelihara Peternak Rakyat Pulau Lombok. Jurnal Sains Teknologi & Lingkungan. 3(2)

Astriana, Y., P. Widiyaningrum dan R. Susanti. 2013. Intensitas Warna Kuning dan Kadar

Omega-3 Telur Burung Puyuh Akibat Pemberian Undur-undur Laut. *Unnes Journal Life Science* 2 (2) : 105-110.

- Atasie, V. N., Akinhanmi, T. F., & Ojiodu, C. C. (2009). Proximate analysis and physico-chemical properties of groundnut (*Arachis hypogaea* L.). *Pakistan journal of Nutrition*, 8(2), 194-197.
- Attia, Y.A. H. Al-Khalaifah, M. S.Ibrahim, A. E.AbdAl-Hamid, M. A.Al-Harhi, and A. El-Naggar 2017 .Blood Hematological and Biochemical Constituents, Antioxidant Enzymes, Immunity andLymphoid Organs of Broiler Chicks Supplemented with Propolis, Bee Pollen and Mannan Oligosaccharides Continuously or Intermittently. *Poultry Science* 96:4182–4192
- Aviati, V., S.M. Mardiaty. And R.S. Tyas. 2014. Quail Eggs Cholesterol Turmeric after Giving Meal in Feed. *Bulletin of Anatomy and Physiology*, 22(1): 58-64.
- Awad, W.A., K. Ghareeb, S. Nitclu S. Pasteiner, S.A. Raheem and J. Bohm. 2008. Effect of Dietary Inclusion of Probiotic, Prebiotic and Symbiotic On Intestinal Glucose Absorb'tion of Broiler Chickens. *Lrt. J. Poult. Sci.* 7: 688-691.
- Ayuniar, L. N., D. Rachmawati. Dan I. Samidjan. 2015. Performa Laju Pertumbuhan Spesifik Bandeng (*Chanos chanos*) Melalui Penambahan Enzim Fitase Pada Pakan Buatan. *Jurnal of Aquaculture Management and Technology*. 4(4): 167-174
- Aziz, M. A., Zahra, A. E. A., Kheder, Z. A., & Fikry, H. M. 2019. The role of L. methionine, L. carnitine, choline and/or silymarin in hepatoprotection against paracetamol intoxication and oxidative stress in broilers. *Slovenian veterinary research*, 56.
- Baktiningsih, S., Mugiyono, S., & Saleh, D. M. 2013. Produksi Telur Berbagai Jenis Ayam Sentul Di Gabungan Kelompok Tani Ternak Ciung Wanara Kecamatan Ciamis Kabupaten Ciamis. *Jurnal Ilmiah Peternakan*, 1(3), 993-1000.
- Baratawidjaja, K. G., & Rengganis, I. 2009. *Imunologi Dasar* edisi ke-8. Fakultas Kedokteran Universitas Indonesia, Jakarta. Hal, 27-40.
- Barroeta, A.C. 1989. Aportacion al estudio utilization de materias grasas en alimentacion aviar PhD.Dissertation Universtat Autonoma de Barcelona Spain.
- Basuno, E. 2008. Review dampak wabah dan kebijakan pengendalian avian influenza di Indonesia (Review of avian influenza impact and its control policy in Indonesia), *Analisis Kebijakan Pertanian*, vol. 6, no. 4, pp. 314-334.

- Baudet, J., B. Mosses. 1971. World oil seeds chem. stry Technology and unitization by D.K.sanlunkhe. India p. 97-139.
- Bedford, M.R. 2000. Exogenous enzymes in monogastric nutrition - their current value and future benefits. *Animal Feed Science and Technology* 86: 1-13.
- Bedford, M.R. and H. Schulze. 1998. Exogenous enzymes for pigs and poultry. *Nutrition Research Reviews* 11: 91-114.
- Berdanier, C.D. 1997. Other Organic Nutrients III. Inositol, in: Berdanier, C.D. (Ed) *Advanced*
- Berg, J.M., J.L. Tymoczko. and L. Stryer. 2006. *Biochemistry*, 6th ed. Worth Publishers Inc.
- Berry, G.T., Mallee, J.J., Kwon, H.M., Rim, J.S., Mulla, W.R., Muenke, M. and Spinner, N.B. 1995 the human osmoregulatory Na⁺/myo-inositol cotransporter gene (SLC5A3): molecular cloning and localization to chromosome 21. *Genomics* 25: 507-513
- Bikrisima, L. H. S., L. D. Mahfudz and N. Suthama. 2013. The resistance of broiler chickens to tropical conditions given Red Guava (*Psidium guajava*) as a source of antioxidants. *Agromedia*. 31 (2): 46-57.
- Boehm, T., and Bleul, C. C. 2007. The evolutionary history of lymphoid organs. *Nature immunology*, 8(2), 131-135.
- Bounous D, Stedman N. Normal avian hematology: chicken and turkey. In: Feldman BF, Zinkl JG, Jain NC, editors. *Schalm's veterinary hematology*. New York: Wiley; 2000. P.1147-1154
- Brickett, K. E., J. P. Dahiya, H. L. Classen, and S. Gomis. 2007. Influence of dietary nutrient density, feed form, and lighting on growth and meat yield of broiler chickens. *Poult. Sci.* 86:2172- 2181.
- Budiman, R. 2007. The Effect of Garlic Powder Supplement on the Blood Profile of Local Chicken Infected with Nematode Worms (*Ascaridia galli*). Department of Nutrition and Livestock Feed Science. Faculty of Animal Science. Bogor. Bogor
- Cahyaningsih, U., H. Malichatin and Y.E. Hedianto, 2007. Diferensial leukosit pada ayam setelah diinfeksi *Eimeria tenella* dan pemberian serbuk kunyit (*Curcuma domestica*) dosis bertingkat. *Prosiding Seminar Nasional Teknologi Peternakan dan Veteriner 2007*. Hal., 593-599.
- Caspary, W.F. and Crane, R.K. 1970 Active transport of myo-inositol and its relation to the

sugar transport system in hamster small intestine. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 203: 308-316.

Chowdhury SR, TK Smith, HJ Boermans and B Woodward. 2005. Effects of feed-borne fusarium mycotoxins on hematology and Immunology of Turkeys. *Poult. Sci.* 84:1698–1706

Citrawidi, T. A., Murningsih, W., & Ismadi, V. D. Y. B. 2012. Pengaruh pemeraman ransum dengan sari daun pepaya terhadap kolesterol darah dan lemak total ayam broiler. *Animal Agriculture Journal*, 1(1), 529-540.

Corze, M.L. and C.O. Soulage. 2013. Potential Role and Therapeutic Interests of Myo-Inositol in Metabolic Diseases. *Journal Biochimie* 95: 1811- 1827.

Cowieson, A. J., Aureli, R., Guggenbuhl, P., Fru-Nji, F. 2015. Possible involvement of myo-inositol in the physiological response of broilers to high doses of microbial phytase. *Anim. Prod. Sci*, 55(6), 710-719

Cowieson, A.J., P. Wilcock and M.R. Bedford. 2011. Super-dosing effects of phytase in poultry and other monogastrics. *World's Poultry Science Journal*, 67 : 225-236.

Cowieson, a.j., ptak, a., mackowiak, p., sassek, m., pruszynska oszmałek, e., zyla, k., swiatkiewicz, s., kaczmarek, s. And józefiak, D. 2013. The effect of microbial phytase and myo-inositol on performance and blood biochemistry of broiler chickens fed wheat/corn-based diets. *Poultry Science* 92: 2124-2134.

Cowieson, A.J., Ptak, A., Mackowiak, P., Sassek, M., Pruszynska-Oszmałek, E., ZYLA, K., Swiatkiewicz, S., Kaczmarek, S. and Józefiak, D. 2013. The effect of microbial phytase and myo-inositol on performance and blood biochemistry of broiler chickens fed wheat/corn-based diets. *Poultry Science* 92: 2124-2134.

Csilla Tóthová,¹ Edina Sesztáková,² Bohumil Bielik,² and Oskar Nagy¹ 2019. Changes of total protein and protein fractions in broiler chickens during the fattening period *Vet World*. 2019; 12(4): 598–604

Daghir, N. J., Raz M. A. ,uwayjan , M ., 1980 Studies on utilization of full fat sunflower seed in broiler ration *poultry sci.* 59 : 2273-2278

Daghir, N.J. 2008. *Poultry production in hot climates* ,2 nd Edlition published B CAB. International Wallinford Oxford shire UK., pp .387.

Davidson, F. 2008. The importance of the Avian Immune System and it's Unique Feature in

Avian Immunology. Academic Press, Elsevier.

Delcony, J.P., A.A. Blohm, J.A. Truett, Scimeca. and D.B, West. 1999. Conjugated linoleic acid rapidly reduces body fat content in mice without affecting energy intake, *Am. J .physiol.* 276 :R1172 –R1179

Dharmawan, N. S.2002. Pengantar patologi klinik veteriner, hematologi klinik. Cetakan III. Pelawa Sari, Denpasar.

Diana, F.M. 2009. Fungsi dan Metabolisme Protei Dalam Tubuh Manusia. *Jurnal Kesehatan Masyarakat* 4(1):100-109.

Dietschy, J.M. 2003. How cholesterol metabolism and transport present novel targets for lipid treatment. *Adv. Stud. Med.* 3 (4), 5319-5323.

Director General of Livestock Services 2003, National report on animal genetic resources Indonesia: a strategic policy document The Ministry of Agriculture of the Republic of Indonesia, Jakarta, Indonesia, viewed 2/8/2009,

Directorate General of Animal Husbandry and Animal Health. Statistics Animal Husbandry and Animal Health 2019. Jakarta. 2019.

Dirjen PKH. 2021. Statistik peternakan dan kesehatan hewan. Jakarta (Indonesia): Direktorat Jenderal Peternakan dan Kesehatan Hewan, Kementerian Pertanian

Diwyanto, K. and S. Iskandar. 1999. Kampung chickens: a key part of Indonesia's livestock sector, in *Livestock industries of Indonesia prior to the Asian financial crisis*, FAO, viewed 3/26/2013, <<http://www.fao.org/docrep/004/ab986e/ab986e03.htm>>.

Diwyanto, K. dan S.N. Prijono. 2007. Keanekaragaman sumber daya hayati ayam local Indonesia: manfaat dan potensi (Genetic resources diversity of local chickens in Indonesia), LIPI Press, Jakarta, Indonesia, 212.

Du, M., & Ahn, D. U. 2002. Effect of dietary conjugated linoleic acid on the growth rate of live birds and on the abdominal fat content and quality of broiler meat. *Poultry Science*, 81(3), 428-433.

Duliński, R., A. Starzynska-janiszewska, B. Stodolak. and K. Zyla. 2011. Comparison of high-performance ion chromatography technique with microbiological assay of myo-inositol in plant components of poultry feed. *Journal of Animal and Feed Sciences* 20: 143-156.

Elangovan , A. v. ,verma ,S .V .S .,Sastry ,V.R . B .2000. Response of growing and laying

- Japanese Quail (*Coturnix Japonica*) to dietary sunflower seed meal Asian Austral . J. Anim. 13 : 1726-1730 .
- Elwan, H.A.; Elnesr, S.S.; Mohany, M.; Al-Rejaie, S.S. . 2019.The effects of dietary tomato powder (*Solanum lycopersicum* L.) supplementation on the haematological, immunological, serum biochemical and antioxidant parameters of growing rabbits. J. Anim. Physiol. Anim. Nutr103, 534–546.
- Emadi, M. dan H. Kermashashi. 2007. Effect of varying level of thumeric rhizome powder on some blood parameters of broiler chickens feed histocompabilty complex, Immunogenetics 10(2):169-274.
- Eniwati. S. Musyabik., N. Karima dan R. Grahati. 2019. Hubungan Asupan Protein Nabati Dengan Kadar Hemoglobin Pada Wanita Usia Remaja Vegan. Jurnal Medula. 9 (1) : 233-236.
- Eroschenko, V.P. 2008. Di Fiore's atlas of histology with functional correlations. Edisi Kesebelas. Lippincott Wiliams & Wilkins, Philadelphia.
- Faitarone, ABG. Garcia, EA. Roca, R de, O., Ricardo, H de, A., Andrade, E, N, de., Pelicia, K., Vercese, F. 2013 . Cholesterol Levels and Nutritional Composition of Commercial Layers Eggs Fed Diets with Different Vegetable Oils. Brazilian Journal of Poultry Science. v.15 / n.1 / 31-38
- Fassah, D. M., dan L. Khotijah.2016. Pengimbuhan Vitamin-E dalam RansumKaya Asam Lemak Tidak JenuhTerhadap Profil Darah Induk Domba Laktasi. Jurnal Veteriner 17 (3) : 430-439.
- Fenita, Y. 2010. Effect of flour noni fruit (*Morinda citrifolia* L.) in the ration to the percentage of internal organs, blood cholesterol and triglyceride levels broiler. Semirata Proceedings Division of Agricultural Sciences BKS-PTN Western Conference, Faculty of Agriculture, University of Bengkulu, Bengkulu, 2010. Pages 1060-1065.
- Fibrianti,S.M., I. K. Suada., dan M. D. Rudyanto. 2012. Kualitas Telur AyamKonsumsi yang Dibersihkan dan Tanpa Dibersihkan Selama Penyimpanan Suhu Kamar . Indonesia Medicus Veterinus 2012 1(3) :408 – 416
- Fisher, A.1984. Fat deposition in broiler pages 437 -470 in fat in animal nutrition J.W. Wise man ed. Butler Worths London .U .K .
- Food and Agriculture Organization of the United Nations. Forestry Department (Rome). 2010

- . Global forest resources assessment 2010: Main report. Food and Agriculture Organization of the United Nations.
- Frieler, R.A., Mitteness, D.J., Golovko, M.Y., Gienger, H.M. and Rosenberger, T.A. 2009 Quantitative determination of free glycerol and myo-inositol from plasma and tissue by highperformance liquid chromatography. *Journal of Chromatography B* 877: 3667-3672.
- Fuglie, K.O. 1999. Agricultural development in Indonesia: private investment in agricultural research/AER-805, viewed 4/1/2013, <http://ers.usda.gov/publications/aer805/aer805e.pdf>
- Gaikwad, R .A .Patil, L .M .Karanjkar and V .S .Jadhav .*Indian J* .2008. *Animal Res.* 42 (1) :38
- Ganong WF. 2002. *Fisiologi Kedokteran*. Edisi ke-14. Widjayakusumah D, Irawati D, Siagian M, Moeloeck D, Pendi BU, penerjemah. Jakarta (ID): EGC.
- Gaya LG, Mourão GB, Ferraz JBS, Mattos EC, Costa AMMA, Filho TM, Rosa AF, Felício AM, Eler JP. 2011. Estimates of heritability and genetic correlations for meat quality traits in broilers. *Sci Agric.* 68:620-625.
- Gegel, U.M., E. Demirci, M. Esendal, M. Tasan. 2007. Fatty acid composition of oil from developing seed of different varieties of safflower jam oil. *Chem. soc.* 84: 47 -45 .
- Geyra, A., Z. Uni and D. Sklan. 2001. The Effect Of Fasting At Different Ages On Growth And Tissue Dynamics In The Small Intestine Of The Young Chick. *British Journal of Nutrition*, 86(1), pp.53- 61.
- Ghaz S, JA Rooke and HG albraith. 2003, Improvement of nutritive value of soybean meal by protease and agalact-oxidase treatment in broiler cockerels and broiler chicks. *Br Poult Sci*, 44, 410-418
- Grases, F., Simonet, B.M., Vucenik, I., Prieto, R.M., costa-bauza, A., March, J.G. and Shamsuddin, A.M. 2001 Absorption and excretion of orally administered inositol hexaphosphate (IP(6) or phytate) in humans. *Biolactors* 15: 53-61
- Grasman KA. Assessing immunological function in toxicological studies of avian wildlife. *Integrative and Comparative Biology* 2002;42:34-42.
- Guèye, E.F. 2005. Gender aspects in family poultry management systems in developing countries. *World's Poultry Science Journal*, 61(1) : 39-46.
- Guha, S., K. Majumder and Y. Mine. 2018. Egg Proteins. Reference Module in Food Science. Departement of Food Science and Technology University of Nebraska-Lincoln, NE,

United States.

Gumilar, J. and A. Pratama. 2018. Production and Characteristics of Halal Gelatine Made of Chicken Intestines. *Journal of Agroindustrial Technology*, 28(1).

Guyton, A. C., & Hall, J. E. 2008. *Textbook of medical physiology*. 1996. WB Sanders, Philadelphia. p. 81-84.

Hamdani, M.D.I., B.F. Dewantara, Sulastri and K. Adhianto. 2017. *The Characteristics and Composition of Poultry Carcass*. Faculty of Animal Science. Lampung University. Lampung.

Harahap, R. A. 2014. *Profil Darah Ayam Broiler Periode Finisher Yang Diberi Pakan Plus Formula Herbal*. Institut Pertanian Bogor. Bogor.

Hargis PS, Van Elswyk ME, Hargis BM. 1991. Dietary modification of yolk lipid with savelha oil. *Poultry Science*; 70:874-83.

Hasanuddin, S. 2013 . *Profil Lemak Darah Pada Ayam Broiler yang Diberi Pakan Step Down Protein dengan Penambahan Air Perasan Jeruk Nipis sebagai Acidifier*. Tesis. Semarang: Universitas Diponegoro.

Hatice B and Mustafa E 2005 *J. Vet. Anim . Sci.* 29 157-64

Havenstein, G. B., P. R. Ferket, and M. A. Qureshi. 2003. Carcass composition and yield of 1957 versus 2001 broilers when fed representative 1957 and 2001 broiler diets. *Poult. Sci.* 82:1509-1518

Hendro, L. Adriani dan D. Latipudin. 2013. Pengaruh pemberian lengkuas (*Alpinia galangal*) terhadap kadar neutrophil dan limfosit ayam broiler. *Prosiding Seminar Nasional Peternakan*. 532-536.

Henuk, Y. L., Bailey, C. A. 2014. Husbandry systems for native chickens in Indonesia. In *Proceedings of the 16th AAAP Animal Science Congress*. Yogyakarta (Indones): University of Gadjah Mada (pp. 759-762).

Hermier D. 1997 Lipoprotein metabolism and falluning *J. NUtR.*127: 8055- 8085 .

Hertampf, J.W. F.D. Pascual. 2000. *Hand book on ingredients for aquaculture feeds* kluwer Academic publishers. 624 pp .

Hidayat C, Sopiya S. 2010. Potensi ayam Sentul sebagai plasma nutfah asli Ciamis Jawa

Barat. *Wartazoa*. 20:190-205

Hidayat, C. 2015. The Depleting Deposit of Abdominal Fat of Broiler Chickens through Feed Management. *Wartazoa* 25(3): 125-134.

Hidayat, C. 2016. Pemanfaatan Fitase Sebagai Upaya Penanggulangan Asam Fitat Dalam Ransum Ayam Pedaging. *WARTAZOA*. 26(2) : 58-68

Hidayat. W., Isroli., dan RR. E. Widiastuti. 2013. Kadar Hemoglobin, Hematokrit, dan Eritrosit Burung Puyuh Jantan Umur 0-5 Minggu yang Diberi Tambahan Kotoran Walet dalam Ransum. *Animal Agriculture Journal*. 2 (1) : 209-216.

Hill, A.B., P.F. Knowles. 1968. Fatty acid composition of the oil developing seeds of different varieties of safflower. *crop. Sci.* 8 :275 -277.

Hosseini – Vashan, S.J., N. Afzali, M. Mallekaneh, M.A. Nasser, A. Allahresani. 2008. Fatty acid content of egg yolk lipids from hens fed with safflower seed. *J. Animal. vet. Adv.* 7 (12) 1605 – 1609 .

Houshmand, M., K. Azhar, I. Zulkifli, M. H. Bejo and A. Kamyab. 2012. Effects of Non-Antibiotic Feed Additives On Performance, Immunity And Intestinal Morphology Of Broilers Fed Different Levels Of Protein. *Afr. J. Anim. Sci.* 42 (1): 22 – 32

Hrdinka, C., Zollitsch, W., Knaus, W., & Lettner, F. 1996 . Effects of dietary fatty acid pattern on melting point and composition of adipose tissues and intramuscular fat of broiler carcasses. *Poultry Science*, 75(2), 208-215.

Huber, K. 2016. Cellular myo-inositol metabolism. Pages 53–60 in *Phytate Destruction – Consequences for Precision Animal Nutrition*. C. L. Walk, I. Kuhn, H. H. Stein, M. T. Kidd, and M. Rodehutschord, eds. Wageningen Academic Publishers, the Netherlands

Ibrahim Albokhadaim, 2012. Hematological and Some Biochemical Values of Indigenous Chickens in Al-Ahsa, Saudi Arabia during Summer Season. *Asian Journal of Poultry Science*, 6: 138-145.

Ibrahim, S. 2008. The Correlation of Small Intestine Size and Body Weight of Broiler Chickens. *Agripet*: Vol (8) No. 2: 42-46.

Iji, P. A., R. J. Hughes, M. Choct and D. R. Tivey. 2001. Intestinal Structure And Function Of Broiler Chickens On Wheat-Based Diets Supplemented With Microbial Enzyme. *Asian-Aust. J. Anim. Sci.* 14(1):54-60.

- Indarto, E., Jamhari., Zahra, F., Zuprizal dan Kustantinah. 2011. The Effect of Using Dried Distillers Grain With Soluble (DDGS) on Low Energy Rations on Carcass, Abdominal Fat, and Liver of Broilers. *Animal Husbandry Bulletin. Peternakan*.35 (2): 71-78.
- Indyk, H.E., S.C. Saldo, P.M. White, M.N. Dole, B.D. Gill and D.C. Woollard. 2016. The Free And Total Myo-Inositol Contents Of Early Lactation And Seasonal Bovine Milk Dairy . *International Journal*, 56, pp.33-37.
- Irianti. N., R. Singgih. S. S dan W. S. Rachmawati. 2014. Blood Profile and Performance of Natife Chicken with Functional Feed. *International Journal of Poultry Science*. 13 (11) : 654-651.
- Iriyanti, N and B. Hartoyo. 2018. The Condition of Digestive Organs and Immunity Function of Male Sentul Chickens supplemented with “Fermeherbafit- Encapsulasi”. In *Proceedings of Seminar of Livestock Technology and Agribusines Universitas Jenderal Soedirman*. Purwokerto 256-261.
- Ismoyowati, S. Mugiyono .2017. Kualitas telur pada berbagai ayam sentul (egg quality of sentul chicken) *Universitas Jenderal Soedirman, Animal Production Vol 5* :89-92
- Isyanto, A.Y., Sudrajat and M. Iskandar. 2017. The Development Strategy of Sentul Chickens in Ciamis Regency. *Jurnal Pemikiran Masyarakat Ilmiah Berwawasan Agribisnis* 3(1); 1-12.
- Iyayi E.A., O. Ogunsola and R. Ijaya. 2005. Effect of Three Sources Of Fiber And Period Of Feeding On The Performance, Carcase Measures, Organs Relative Weight And Meat Quality In Broilers. *International Journal of Poultry Science*, 4(9): 695- 70
- Jahnke, HE 1982, *Livestock production systems and livestock development in tropical Africa*, Kieler Wissenschaftsverlag Vauk, Kiel, Federal Republic of Germany, viewed 7/16/2013, <http://pdf.usaid.gov/pdf_docs/pnaan484.pdf>.
- Jain, N.C. 1993 . *Essentials of Veterinary Haematology*. Philadelphia, USA: Lea and Febiger Publishing House, 153
- Jang, I, Y., Ko, S. Kang, S. Kim, M. Song, K. Cho, J. Ham and S. Sohn. 2014. Effect of Dietary Lutein Sources on Lutein-Enriched Egg Production and Hepatic Antioxidant System in Laying Hens. *Japan Poultry Science Association* 51 (1) : 58-65.
- Juliambarwati,M.,A.Ratriyanto dan A. Hanifa. 2012.Pengaruh Penggunaan Tepung Limbah Udang dalam Ransum Terhadap Kualitas Telur Itik. *Sains Peternakan*10(1):

1-6.

- Katkade, M.B., H.M. Syed, R.R. Andhale and M.D. Sontake. 2018. Fatty Acid Profile and Quality Assessment of Safflower (*Carthamus tinctorius*) oil. *Journal of Pharmacognosy and Phytochemistry* 7 (2): 3581-3585.
- Katkade., Syed., Andhalen., Dan Sontakke. 2018 Fatty Acid Profile And Quality Assessment Of Safflower (*Carthamus tinctorius*) Oil. *Journal Of Pharmacognosy And Phytochemistry*. 7(2) : 3581-3585
- Kim, J.H., F.M. Pitargue, H. Jung, G.P. Han, H.S. Choi and D.Y. Kil. 2017. Effect of Superdosing Phytase on Productive Performance and Egg Quality in Laying Hens. *Asian-Australian Journal of Animal Sciences* 30 (7) : 994-998.
- Kindt, E., Y. Shum, I. Badura, P.J. Snyder, A. Brant, S. Fountain. and G. Szekelyklepser. 2004. Development and Validation of an LC/MS/MS Procedure for the Quantification of Endogenous myo-Inositol Concentrations in Rat Brain Tissue Homogenates. *Analytical Chemistry* 76: 4901-4908.
- Klasing K.C., 2000 Comparative Avian Nutrition, Department of Avian Science, College of Agricultural and Environmental Sciences University of California Davis California, USA. CAB International.
- Kohlmeier, M. 2003. Inositol, in: Kohlmeier, M. (Ed) *Nutrient Metabolism (Food Science and Technology)*, pp. 634-642 (London, Academic Press).
- Kondombo, S.R., A.J. Nianogo, R.P. Kwakkel, H.M.Y. Udo. and M. Slingerland. 2003. Comparative analysis of village chicken production system in two farming systems in Burkina Faso, *Tropical Animal Health and Production*, 35 : 563-574.
- Kusnadi, E. 2009. The effect of various stresses on several hormonal systems and their relation to production in chickens. *National Seminar on Animal Husbandry and Veterinary Technology, Faculty of Animal Science, Andalas University, Padang*. P. 572-579.
- Kusumawati, D. 2004. *Bersahabat dengan hewan coba*. Gadjah Mada University press, Yogyakarta.
- Laird, S. 2016 *The effects of super-dosing phytase in the growing pig (Doctoral dissertation, University of Leeds)*.
- Latif I. k., H. M. Majed and H. Sahar. 2014. Determine the weight of thymus, bursa of Fabricius

and spleen and its ratio to body weight in some diseases of broilers. *Mirror of Research in Veterinary Sciences and animals*. MRSVA 3 (1), 8-14

Laudadio, V., L. Passantino, A. Perillo, G. Lopresti, G. Passantino, R.U. Khandan and V. Tufarelli. 2012. Productive Performance And Histological Feature Sof Intestinal Mucosa Of Broiler Chickens Fedd Ifferent Dietary Protein Levels. *Journal of Poultry Science*. 91(1):265–270

Lee, S. A., Bedford, M. R. 2016. Inositol-An effective growth promotor?. *World's Poultry Science Journal*, 72(4), 743-760.

Lehninger A.L, 1997 *Dasar-dasar Biokimia*, alih basa Dr. Ir. Maggy Thenawidjaja, IPB. Penerbit Erlangga.

Lehninger, A.L., D.L. Nelson. and M.M. Cox. 2008. *Lehninger Principles of Biochemistry*, 5th ed. W.H. Freeman and Company, NY.

Lestari, D. E. L., Widiastuti. N. Nurcahyani., dan G. N. Susanto. 2016. Pengaruh Penambahan Sargassum Sp. Dan Inositol Dalam Pakan Terhadap Pertumbuhan Dan Daya Tahan Juvenil Ikan Grame (*Osphronemus gouramy Lac.*). *Jurnal Natur Indonesia*. 16(2) : 72-78

Lestari, D., Riyanti dan V. Wanniatie. 2015. Pengaruh Lama Penyimpanan dan Warna Kerabang Terhadap Kualitas Internal Telur Itik Tegal. *Jurnal Ilmiah Peternakan Terpadu* 3 (1) : 7-14.

Leung, K., Mills, K., Burren, K.A., Copp, A.J. and Greene, N.D.E. 2011 Quantitative analysis of myo-inositol in urine, blood and nutritional supplements by high-performance liquid chromatography tandem mass spectrometry. *Journal of Chromatography B* 879: 2759-2763.

Lidyawati, A., B. Khopsoh., dan N. Haryuni. 2018. Efek Penambahan Level Vitamin E Dan Selenium Dalam Pakan Terhadap Performa Ayam Petelur Yang Di Inseminasi Buatan. *Jurnal Ilmiah Peternakan Terpadu*. 6(2) : 106-110

Ligajue, Zhou Mingde, Ramantha Rao. V .1993. *Characterization and evaluation of safflower germplasm*. Geoloical publishing House Beijing Chin

Liu, L., Guan. L.L., Wu. W and Wang, L. 2016. A Review of Fatty Acids and Genetic Characterization of Safflower (*Carthamus tinctorius L.*) Seed Oil. *Organic Chem Curr Res* 5 (1): 1-4.

Lokopirnasari, W. R dan A. B. Yulianto. 2014. *Gambaran sel eosinofil, monosit, dan basofil*

setelah pemberian spirulina pada ayam yang diinfeksi virus flu burung. *J. Veteriner*. 15 (4): 499 – 505.

- Lucky, N.J., M.A.R. Howlider, M.A. Alam and M.F. Ahmed. 2014. Effect of Dietary Exogenous Phytase on Laying Performance of Chicken at Older Ages. *Bangladesh Journal of Animal Science* 43 (1):52-55.
- Lwelamira, J., Kifaro, G. C., & Gwakisa, P. S. 2009. Genetic parameters for body weights, egg traits and antibody response against Newcastle Disease Virus (NDV) vaccine among two Tanzania chicken ecotypes. *Tropical Animal Health and Production*, 41(1), 51-59.
- Maenz, D.D. and Classen, H.L. 1998 Phytase activity in the small intestinal brush border membrane of the chicken. *Poultry Science* 77: 557-563.
- Magna, A.P., Nuhriawangsa S., Z. Bachruddin., A. Wibowo. 2012. The Effect of giving phytase from recombinant bacterial peaslamp from Indonesia non production performance and blood profile in grower chickens. *ISAA Publication* 2(3): 203-208.
- Mahadi, M. And A.H. badi. 2010. Infusion of full-fat safflower seed, carthamus tinctorius in broile diet. *I talion journal of animal science*,9:52
- Mahadi, M., A.H. badi, A. Heidariniya. 2011. Effect of safflower seed on performance, carcass Traits and blood parameter of broiler. *Res. J. Poult. Sci*, 4(2) :18 – 21
- Malakian, M., Hassanabadi, A. 2010. Inclusion of full-fat safflower seed (*Carthamus tinctorius* L.) in broiler diet. *Italian Journal of Animal Science*, 9(e52), 268-272.
- Malakian, M., & Hassanabadi, A. 2010. Nutritional evaluation of full-fat Safflower seed for broiler chickens. *Italian Journal of Animal Science*.
- Malakian, M., Hassanabadi, A., & Heidariniya, A.2011. Effects of safflower seed on performance, carcass traits and blood parameters of broilers. *Res. J. Poult. Sci*, 4(2), 18-21.
- Malekian. and A.H. Abadi. 2011. Effect of different level of full fat safflower seed on performance of 21- 42 days old broiler chicken. *Iraian Jaunal of Animal sci Research*, 3(1)
- McAinsh, CV & Kristensen, AR 2004, 'Dynamic modelling of a traditional African Chicken production system', *Tropical Animal Health and Production*, vol. 36, pp. 609-626.
- Mcdowell, L.R. 2000 Vitamin-like substances, in: MCDOWELL, L.R. (Ed) *Vitamins in Animal and Human Nutrition*, pp. 660-666 (Ames, Iowa State University Press).

- McFerran, J. B. and J. A. Smith. 2000. Avian adenoviruses. *Revue Scientifique Technique* (International Office of Epizootics) Journal. 19 (2): 589-601.
- Menge, E.O., S. Kosgey. And A.K. Kahi. 2005. Bio-economic model to support breeding of indigenous chicken in different production systems, *International Journal of Poultry Science*, 4(11): 827-839.
- Meyer, B.J., N.J. Mann, J.L. Lewis, G.C. Milligan, A.J.Sinclair and P.R. Howe, 2006. Dietary intakes and food sources of omega-6 and omega-3 polyunsaturated fatty acids. *Lipids*, 38: 391-398
- Mohan, I, reddy, c.v, Rao, p.v, siddiqui s.m , 1984 safflower *Carthamus tinctorius*) oil cake as a source of protein for broilers *Indian j.anim . sci* 54(9):870-873.
- Monira, K.N., M. Salahuddin and G. Miah, 2003. Effect of breed and holding period on egg quality characteristics of chicken. *Int. J. Poult. Sci.*, 2: 261-263.
- Montgomery, R., R. L. Dryer, T. W. Conway & A. S. Spector. 1993. *Biokimia: Suatu Pendekatan Berorientasi Kasus. Jilid 2, Edisi Keempat. Terjemahan (M. Ismadi).* Yogyakarta: Gadjah Mada University Press.
- Muladno. 2008. Local chicken genetic resources and production systems in Indonesia, Food and Agriculture Organization of the United Nations, Rome, Italy, viewed 12/31/2010, <www.fao.org/docrep/013/al695e/al695e00.pdf>.
- Murray, R.K., D.A. Bender, K.M. Botham, P.J. Kennelly, V.W. Rodwell, and P.A. Weil. 2009. *Harper's Biochemistry*. 28th ed. McGraw-Hill Publishing Co. NY.
- Murwani, R., A. Indriani, I. Yuliana, K. Wihardani, M.A. Wahyuningrum, N.R. Tawakal, Mulyono and E. Kusumanti, 2011. Blood biochemical indices and productivity of broilers on a diet supplemented with mannan oligosaccharide, baker yeast, or combined baker yeast and noni leaves extracts. *Int. J. Poult. Sci.*, 10: 990-997
- Nagaraj G, Devi G.N. , srinivas C.V.S. 2001 safflower petals and their chemical compositics of India safflower cultivars. 5th international safflower conference 23-27 July US.A pp301 303.
- Nataamijaya, A.G. 2010. Pengembangan potensi ayam lokal untuk menunjang peningkatan kesejahteraan petani (Development of local chicken potential for supporting the improvement of farmers' welfare)', *Jurnal Litbang Pertanian*, vol. 29, no. 4, pp. 131-138, viewed 3/26/2013 <<http://pustaka.litbang.deptan.go.id/publikasi/p3294102.pdf>>.

- NRC (National Research Council). 1994. Nutrient Requirements of Poultry. 9th ed. National Academy Press, Washington, DC.
- NRC 1994 Nutrient requirements of poultry .9th edn., national Academy Washington , DC. USA., ISBN-13: 978-0-309-04892-7.
- Nugraheni, Z. M., A. Hintono., dan I. Mangish. 2015. Kandungan Asam Lemak Tak Jenuh Telur Akibat Pemberian Kayambang (*Svinia molest*) Pada Ransum Ayam Petelur. Animal Agriculture Journal. 4(1) : 28-34
- Nuraenih, N., Pagala, M. A., & Tasse, A. M. 2016. Hematologi ayam kampung super yang diberi minyak kelapa sawit terproteksi dalam ransum. Jurnal Ilmu dan Teknologi Peternakan Tropis, 3(1), 15-20.
- Oguz, F.K. and M.N. Oguz. 2007. The effect of safflower seed on performance and blood parameters of broiler chicks. Indian Vet. J, 84 : 610-612.
- Okeno, T.O., A.K. Kahi. and K.J. Peters. 2012. Characterization of indigenous chicken production systems in Kenya. Tropical Animal Health and Production, 44 : 601–608.
- Overland, M. and K. C. Kjeldsen. 2002. Safety of New Approved Performance Enhancer. Formi. Workshop. BASF. Form and Food Safety. Ludwigshafel, Germany.
- Paiva, J. T. D., Mourão, G. B., Ferraz, J. B. S., Mattos, E. C., Michelan Filho, T., Campos, B. M., ... & Gaya, L. D. G. 2018. Inferences on the effects of selection for feed conversion over meat quality traits in broiler. Scientia Agricola, 75, 129-135.
- Park. Y.K.J., J.M. Albright, W. Liu and M.W. Pariza. 1999. Evidence that tran-10-cis 12 Isomer of conjugated linoleic acid induces by body composition change in mice-lipids 34 : 235-241.
- Pedersen, C.V. 2002. Production of semi-scavenging chickens in Zimbabwe', Ph.D. thesis, The Royal Veterinary and Agricultural University, Copenhagen, Denmark.
- Pefindo 2009. 'Poultry industry', PT Pemingkat Efek Indonesia (Pefindo), Jakarta, viewed4/1/2013,<http://new.pefindo.com/files/id_poultry_200904.pdf>.
- Peng, Q., X. F. Zeng, J. L. Zhu, S. Wang, X. T. Liu, C. L. Hou, P. A. Thacker and S. Y. Qiao. 2016. Effects of Dietary Lactobacillus plantarum B1 on Growth Teknologi Indonesia, 5(5), pp.190-194.
- Piliang, W.G. & Al Haj, S.D. 2006. Fisiologi Nutrisi Volume 1. Bogor (ID): IPB Press

- Pirgozliev, V., Allymehr, M., Sarwar, S., Acamovic, T., Bedford, M. R. 2007. The effect of dietary inositol on performance and mucin excretion when fed to chickens. In *British Poultry Abstracts* (Vol. 3, pp. 4-5)
- Purwati, D., M.A. Djaelani., E.Y.W. Yuniwanti. 2015. Indeks Kuning Telur (IKT), Haugh Unit (HU) dan Bobot Telur pada Berbagai Itik Lokal di Jawa Tengah. *Jurnal Biologi* 4 (2) : 1-9.
- Putri. I., E.L. Widiatuti dan N. Nurcahyani. 2014. Penambahan Suplemen Inositol Pada Pakan Komersial Terhadap Laju Pertumbuhan Ikan Gurami (*Osphronemus Gouramy*) dalam Skala Laboratorium. *Prosiding Seminar Nasional Pengembangan Teknologi Pertanian Polinela* 257-262. Lampung, 24 Mei 2014 : Politeknik Negeri Lampung.
- Rachmawati, D., dan I, Samidjan. 2014. Penambahan Fitase Dalam Pakan Buatan Sebagai Upaya Peningkatan Kecernaan, Laju Pertumbuhan Spesifik Dan Kelulus hidupan Benih Ikan Nila (*Oreochromis Niloticus*). *Jurnal Saintek Pertanian* 10(1) : 48-55.
- Rahamat A.B Babiker E.E. krishan A.G. , Tinay E.I, 2001 changes in fatty acid composition during seed growth and physicochemical characteristics of oil extracted tram four safflower cultivars . *Plant food for human nutrition* 56; 385- 395.
- Rahamatalla, A. B., Babiker, E. E., Krishna, A. G., & El Tinay, A. H. 2001. Changes in fatty acids composition during seed growth and physicochemical characteristics of oil extracted from four safflower cultivars. *Plant Foods for Human Nutrition*, 56(4), 385-395..
- Rahman, Mohammad M . 2017 Evaluation of serum antibody titer level against Newcastle disease virus in vaccinated broiler chickens, *Annals of Veterinary and Animal Science* V:4(3)
- Raj, A.G, kothandoman, P. kadirvel, R. 1983 proximate composition and nutritive vlue of safflower (*carthamustinctorius*)L. seed meal paultry *SCI*. 12: 290-293.
- Rehman, A; Malik, M.Y., 1986 safflower meal as a protein source in broiler rations Pakistan *J. Biochemist.* , 19(1-2);39-42.
- Rodriguez, M. L., Ortiz, L. T., Alzueta, C., Rebole, A., Trevino, J. 2005. Nutritive value of high-oleic acid sunflower seed for broiler chickens. *Poultry Sci.* 84:395-402.
- Rodriguez, M. L., Ortiz, L. T., Treviño, J., Rebole, A., Alzueta, C., & Centeno, C. 1998. Studies on the nutritive value of full-fat sunflower seed in broiler chick diets. *Animal feed science and technology*, 71(3-4), 341-349..

- Rofiq, M.N., 2003. The Effect of Indigenous Material-Based Feed on the Performance of Small Intestinal Villi of Broiler Chickens *Jurnal Sains and Teknologi Indonesia*, 5(5), pp.190-194.
- Romanoff, A.L. and A.J. Romanoff. 2011. *The Avian Egg Second Edition* John Wiley and Sons. Ebook. New York.
- Sahin, K., C. Orhan, M. Tuzcu, A. Hayirli, J.R. Komorowski and N. Sahin. 2018. Effect of Dietary Supplementation of Arginine-silicate-inositol Complex on Absorption and Metabolism of Calcium of Laying Hens. *Plos One* 13 (1) : 1-12.
- Samour. J. 2015. *Diagnostic Value of Hematology in Clinical Avian Medicine. Volume 2.* Harrison GJ, Lightfoot TL. Spix Publishing : Florida.
- Santoso, A., N. Iriyanti., dan S.T. Rahardjo. 2013. Penggunaan Pakan Fungsional Mengandung Omega 3, Probiotik Dan Isolat Antihistamin N3 Terhadap Kadar Lemak Dn Kolesterol Kuning Telur Ayam Kampung. *Jurnal Ilmiah Peternakan*. 1(3) : 848-855
- Santoso, U. 2016. Effect of Noni Fruit Flour Eggs on Cholesterol Levels. *Sain Ranch Indonesian Journal* Vol. 11 No. 2 July to December, 2016.
- Sanz, M. 1999. Higher lipid accumulation in broilers fed on saturated fats than in those fed on unsaturated fats. *Brit Poultry Sci*, 40:95-101.
- Sanz, M., A. Flores. and C.L.L. Lopez Bote. 1999. Fatly acid saturation broil diet on abadominal fat and breast muscle fatty acid composition and susceptibility to lipid oxidation sci78.378-382pub.med.
- Sanz, M., C.J. Lopez-Bote, D. Menoyo, and J. M. Bautista. 2000. Abdominal fat deposition and fatty acid synthesis are lower and β -Oxidation is higher in broiler chickens fed diets containing unsaturated rather than saturated fat. *The Journal of Nutrition* 130 : 3034-3037.
- Sanz, M., Lopez-Bote, C. J., Menoyo, D., Bautista, J. M. 2000. Abdominal fat deposition and fatty acid synthesis are lower and β -oxidation is higher in broiler chickens fed diets containing unsaturated rather than saturated fat. *The Journal of nutrition*, 130(12), 3034-3037.
- Sari, L. M., and F. G. N. Ginting. 2012. Effect of phytase enzyme addition on rations on the relative weight of broiler digestive organs. *Agripet*. 12 (2): 37-41.
- Sarkiyay, I, S. and T.M. Agar. 2010. Comparative analysison the nutritional and anti nutritional contents of the sweet and bitler cassava varities. *Advance journal of food science and*

technologies, 2(6) : 328-334

- Sartika, T 2007, Pembibitan dan peningkatan mutu genetik ayam lokal (Breeding and genetic quality improvement of local chickens), in K Diwyanto & SN Prijono (eds), Keanekaragaman sumber daya hayati ayam lokal Indonesia: manfaat dan potensi, LIPI Press, Jakarta, Indonesia.
- Sartika, T., 2012. The availability of Indonesian native chicken genetic resources and its development strategy for establishing parent and grand parent stock. Workshop Nasional Unggas Lokal: 15-23
- Satish, I. And S.K.K. Shrivastava. 2011. Chemical and biochemical studies of new varieties of safflower (*carthamus tinctorium* L.) PBW12 and PBW-40 seed .AAB Bioflux volume zissure 2:127-138.
- Satria, E. W., O. Sjojfan dan I. H. Djunaidi. 2016. Respon Pemberian Tepung Daun Kelor (*Moringa Oleifera*) Pada Pakan Ayam Petelur Terhadap Penampilan Produksi dan Kualitas Telur. Buletin Peternakan. 40(3):197-202.
- Scaile J.R, Moyoyo Galbraith. W, Michie. and V. Compbell. 1994. Effect of addition dietary supplemental fats and acid on tissue fatty acid composition and growth of female broiler Br. Pout.sci 35:107-118.
- Schiere, JB, De Wit, J, Steenstra, FA & Van Keulen, H 1999, 'Design of farming systems for lowinput conditions: principles and implications based on scenario studies with feed allocation in livestock production', Netherlands Journal of Agricultural Science, vol. 47, pp. 169-183.
- Schlemmer, U., K.D. Jany, A. berk, E. Schulz. And G. Rechkemmer. 2001. Degradation of phytate in the gut of pigs--pathway of gastro-intestinal inositol phosphate hydrolysis and enzymes involved. Archives of Animal Nutrition 55: 255-280.
- Selvaraj R.K; and MR. Purushothaman 2004 nutritive value of full -fat safflower in poultry eliets poultry sci.83.441-446.
- Sestilawarti. Mirzah. Dan Montesqrit. 2013. Pengaruh Pemberian Mikrokapsul Minyak Ikan Dalam Ransum Puyuh Terhadap Performa Produksi. Jurnal Peternakan Indonesia. 15(1) : 69-74
- Setiadi, D., K. Nova. and Tantalo. 2011. The Comparison of Liveweight and the Weight of Carcass, Giblet and Abdominal Fat of MediumType Roosters from Different Strains Fed

on Commercial Broiler Feed. *Jurnal peternakan*. 2(3):10-17

Setyaningsih, E. 2011. Effect of Adding Flour Noni (*Morinda citrifolia* L) in the ration to Decrease Cholesterol Levels Strain Hubbard Broiler Chicken Meat. *Biology Seminar Proceedings.*, UNS, Solo. Pages 145-152.

Simaraks, S., Chinrasri, O., & Aengwanich, W. 2004. Hematological, electrolyte and serum biochemical values of the Thai indigenous chickens (*Gallus domesticus*) in northeastern, Thailand. *Songklanakarin Journal of Science and Technology*, 26(3), 425-430.

Sklan, D. 2001. Development of The Digestive Tract Of Poultry. *World's Poultry Science Journal*, 57(4), pp.415-428.

Smith KG, Hunt JL. On the use of spleen mass as a measure of avian immune system. *Oecologia* 2004;138:28–31.

Soehadji. 1994. Membangun peternakan tangguh (Developing of strong livestock industry). Proses internalisasi pengabdian tugas ke inovasi instrumental sistem pembangunan peternakan tangguh. Orasi Ilmiah. Penganugerahan Gelar Doctor Honoris Causa Bidang Ilmu Peternakan pada tanggal 15 September 1994, Universitas Padjadjaran, Departemen Pendidikan dan Kebudayaan, Bandung, Indonesia

Steel, R.G.D., J.H. Torrie and D.A. Dickey. 1996. Principles and procedures of statistics: biometrical approach. McGraw-Hill, New York..

Stevens, L. 2004. Avian Biochemistry and Molecular Biology, Cambridge Univ. Press. Cambridge, UK.

Sufiriyanto, S., Iriyanti, N., & Susanti, E. 2019. Hematology Profiles and Performance of Broiler Chickens Fed on Commercial Feed. *Animal Production*, 20(3), 183-190.

Sugito, M.W., D.A. Astuti, E. Handharyani and Chairul. 2007. Liver and Kidney Histopathology of Broiler Chickens Exposed to Heat Stroke and Supplemented with Willow Bark Extract (*Salix tetrasperma* Roxb). *JITV*. 12:6873.

Suhardi. 2013. Struktur dan Kualitas Telur ayam Lokal khas Dayak Bagi pengembangan dan Pelestarian Plasma Nutfa ternak Unggas. *Jurnal Peternakan*. 10(2):67-73.

Suhermiyati, S., & Iriyanti, N. 2011. The effect of natuzyyme in the diets containing non-starch polysaccharides on meat quality of native chicken. *Animal Production*, 13(2).

Sulandari, S., M.S.A. Zein, S. Paryanti. Dan T. Sartika. 2007. Taksonomi dan asal-usul

ayam domestikasi (Taxonomy and the origin of chicken domestication), in K Diwyanto & SN Prijono(eds), Keanekaragaman sumber daya hayati ayam lokal Indonesia: manfaat dan potensi, LIPI Press, Jakarta, Indonesia.

Sulandari, S., M.S.A. Zein. dan T. Sartika. 2008, 'Molecular characterization of Indonesian indigenous chicken based on mitochondrial DNA displacement (D)-loop sequences, *Journal of Biosciences*. 15(4) : 145-154

Sumiarto, B. And B. Arifin. 2008. Overview on poultry sector and HPAI situation for Indonesia with special emphasis on the island of Java-background paper, the International Food Policy Research Institute (IFPRI), viewed 3/16/2013, http://www.ifpri.org/publication/overview-poultry-sectorand-hpai-situation-indonesia-special-emphasis-island java/hpairr03_indonesia.pdf

Susanti, T, Sopiyan, S, Sartika T., Prasetyo, LH, Iskandar, S, Sartika, D, Rosyana, A & Fasyaini, N 2008, Inventarisasi dan pelestarian plasma nutfah unggas dan aneka ternak di Jawa Barat (lanjutan) (Inventory and preservation of poultry genetic resources in West Java, continue), Balai Penelitian Ternak dan Dinas Peternakan Provinsi Jawa Barat, Bogor, Indonesia.

Takatsy, G. Y. 1956. The use of spiral loops in serological and virological micromethods.. *Acta Microbiology Academic Science, Hungary* 3:197.

Talebi, A., S. Asri-Rezaei, R. Rozeh-Chai and R. Sahraei, 2005. Comparative studies on haematological values of broiler strains (Ross, Cobb, Arbor-acres and Arian). *Int. J. Poult. Sci.*, 4: 573-579.

Teo, A.Y., Tan, H.M., 2007. Evaluation of the performance and intestinal gut microflora of broilers fed on corn-soy diets supplemented with *Bacillus subtilis* PB6 (CloSTAT). *J. Appl. Poult. Res.* 16, 296-303.

Tizard, I. R. 1988. *Introduction to Veterinary Immunology*. Airlangga University Press, Surabaya. (translated by: M. Partodirejo and S. Hardjosworo)

Toma, W., L.L. Guimaraesa, A.R.M.S Britob, A.R Santosc, F.S. Cortezc, F.H. Puscedduc, A. Cesar, L.S. Juniore, M.T.T. Pachecoa and C.D.S. Pereira. 2014. Safflower oil: An Intergrated Assessment of Phytochemistry, Antiulcerogenic Activiy, and Rodent And Environmental Toxicity. *Journal Revista Brasileira de Farmacognosia* 24(9):538 – 544

Toomer, O. T., Hulse-Kemp, A. M., Dean, L. L., Boykin, D. L., Malheiros, R., & Anderson, K. E. 2019. Feeding high-oleic peanuts to layer hens enhances egg yolk color and oleic fatty

- acid content in shell eggs. *Poultry science*, 98(4), 1732-1748.
- Tóthová C.S, Major P, Molnár L, Nagy O. Protein electrophoresis in avian medicine. In: Mitchell G.H, editor. *Gel Electrophoresis:Types, Applications and Research*. New York: Nova Science Publishers, Inc; 2017. pp. 157–187.
- Tranggono dan B Setiaji. 1989. *Kimia Lipida*. PAU Pangan dan Gizi Universitas Gadjah Mada, Yogyakarta.
- Urbano, G.; Lopez-Jurado, M.; Aranda, P.; Vidal-Valverde, C.; Tenorio, E.; Porres, J., 2000: The role of phytic acid in legumes: antinutrient or beneficial function? *Journal of Physiology and Biochemistry* 56, 283–294.
- Utari, D. M. 2010. Kandungan Asam Lemak, Zink, Dan Copper Pada Tempe, Bagaimana Potensinya untuk Mencegah Penyakit Degeneratif. *Jurnal Gizi Indonesia*. 33(2):105-115
- Volek, J.S., M.J. Sharman and C.E. Forsythe, 2005. Modification of lipoproteins by very low-carbohydrate dan omega-6 dalam minyak man lemuru dengan diets. *J. Nutr.*, 135: 1339-1342
- Vorlova, L., Sieglova, E., Karpíšková, R., & Kopřiva, V. 2001. Cholesterol content in eggs during the laying period. *Acta Veterinaria Brno*, 70(4), 387-390.
- Wahyuni. H. I. Apriliyani, F., N. Suthama 2012. Lymphocyte heterophyll ratio and relative weight of bursa fabrisius due to the combination of exposure time and provision of different ration portions in broilers. Faculty of Animal Husbandry and Agriculture, University Diponegoro, Semarang. *Animal Agriculture Journal*, 2. (1): p 393-399.
- Walk, C.L., T.T. Santos. And M.R. Bedford. 2014. Influence of superdoses of a novel microbial phytase on growth performance, tibia ash, and gizzard phytate and inositol in young broilers. *Poultry Science* 93: 1172-1177.
- Wang, Y. W., Sunwoo, H., Cherian, G., & Sim, J. S. 2004. Maternal dietary ratio of linoleic acid to alpha-linolenic acid affects the passive immunity of hatching chicks. *Poultry science*, 83(12), 2039-2043.
- Weiss E.A. 1983 *oil seed crops tropical Agriculture series long man Group limited, long man house London U.K*, pp 216-220.
- Widiastoety. D. Santi., N. Salvia. 2012. Pengaruh Myoinositol dan Arang Aktif terhadap Pertumbuhan Planlet Angrek *Dendrobium* dalam Kultur In Vitro. *J. Hort.* 22(1) : 202-208

- Widjastuti, T. 2009. Pemanfaatan Tepung Daun Pepaya (*Carica Papaya*. L. Less) dalam upaya peningkatan produksi dan kualitas telur ayam sentul. *Agroland: Jurnal Ilmu-ilmu Pertanian*, 16(3).
- Widjastuti, t., and setiawan, i. 2017. the use of turmeric (*curcuma domestica val*) meal in the rationas feed additive on hen-day production and egg quality of sentul chicken. scientific papers: series d, animal science-the international session of scientific communications of the faculty of animal science, 60.
- Widyastuti, T. 2009. Pemanfaatan Tepung Daun Pepaya (*Carica papaya*. L. Less) Dalam Upaya Peningkatan Produksi Dan Kualitas Telur Ayam Sentul. *J. Agroland*. 16(3) : 268-273
- Winarno, F.G. and S. Koswara. 2002. *Eggs: Composition, Handling, and Processing*. M. Brio Press, Bogor.
- Yenice, E., Mızrak, C., Gültekin, M., Atik, Z., & Tunca, M. 2015. Effects of organic and inorganic forms of manganese, zinc, copper, and chromium on bioavailability of these minerals and calcium in late-phase laying hens. *Biological trace element research*, 167(2), 300-307.
- Young, L. L., J. K. Northcutt, R. J. Buhr, C. E. Lyon, and G. O. Ware. 2001. Effects of age, sex, and duration of postmortem aging on percentage yield of parts from broiler chicken carcasses. *Poult. Sci.* 80:376-379.
- Yulianti, W., W. Murningsih dan V.D.Y.B. Ismadi. 2013. Pengaruh penambahan sari jeruk nipis (*Citrus auratifolin*) dalam pakan terhadap profil lemak darah Itik Magelang jantan. *AnimalAgricultural Journal* 2(1): 51-58.
- Yuniwarti, E. Y. W., dan H. Muliani. 2014. Status Heterofil, Limfosit dan Rasio H/L Berbagai Itik Lokal di Provinsi Jawa Tengah. *Jurnal Ilmu Peternakan* 1(5):22 – 27.
- Yuniwarti, E. Y. W., W. Asmara, W. T. Atmara, dan C. R. Tabbu. 2013. Vigin coconut oil meningkatkan aktivitas fagositosis makrofag ayam pedaging pasca vaksinasi flu burung. *J. Veterinary Science*. 14 (2); 190 – 196.
- Yusdja, Y. Dan N. Ilham. 2007. Suatu gagasan tentang peternakan masa depan dan strategi mewujudkannya (An idea on future livestock and strategy to bring into reality), *Forum Penelitian Agro Ekonomi*. 25(1) : 19-28
- Yusdja, Y., N. Ilham. Dan R. Sayuti. 2004. Tinjauan penerapan kebijakan industri ayam ras: antara tujuan dan hasil (Evaluation and implementation of poultry industry policy: goal

and achievement), *Forum Penelitian Agro Ekonomi*, 22(1) : 22-36.

Yuwanta, tri. 2004. *Dasar Ternak Unggas*. Yogyakarta. Kanisius

Zhang, Z., Sun, P., Yu, F., Yan, L., Yuan, F., Zhang, W., & Li, Z. 2012. Transgenic quail production by microinjection of lentiviral vector into the early embryo blood vessels. *PLoS One*, 7(12), e50817.

Zhang,H., C. X. Wu, Y. Chamba, and Y. Ling. 2007. Blood Characteristics for High Altitude Adaptation in Tibetan Chickens. *Poultry Science* 86:1384–1389..

Zollitsch, W., Knaus, W., Aichinger, F., & Lettner, F. 1997. Effects of different dietary fat sources on performance and carcass characteristics of broilers. *Animal Feed Science and Technology*, 66(1-4), 63-73.

Zurmiarti, M Wizna., M. H. Abbas., Dan M. E. Mahata. 2017. Pengaruh Imbangan Energy Dan Protein Ransum Terhadap Pertumbuhan Itik Pitalah Yang Diberi Probiotik Bacillus Amylolyquefaciens. *Jurnal Peternakan Indonesia*. 19(2) : 85 – 92

Zyla, K., M. Mika, R. Dulinski, S. Swiatkiewicz, J. Koreleski, H. Pustkowiak and J. Piironen. 2012. Effect of Inositol, Inositol-generating Phytase B applied alone, and in Combination with 6-phytase A to Phosphorus-deficient Diets on Laying Performance, Eggshell Quality, Yolk Cholesterol, and Fatty Acid Deposition in Laying Hens. *Poultry Science* 91 (8) : 1915-1927.

Zyła, K., Mika, M., Stodolak, B., Wikiera, A., Koreleski, J., Świątkiewicz, S. 2004. Towards complete dephosphorylation and total conversion of phytates in poultry feeds. *Poultry Science*, 83(7), 1175-1186.