

## DAFTAR PUSTAKA

- Abanikannda, OTF and Leigh, AO. 2012. Chicken age and egg morphometric measures on eggshell thickness. *Archiva Zootechnica*. 15(1): 61-68
- Abbasi HA, Gharavysi S and Abdullahpour R. 2011. Genetic polymorphism exon 9-11 at the Leptin gene receptor in breeder hens of Mazandaran native fowls. *J. Anim. Vet. Adv.* 10(21): 2802-2805
- Adachi H, Murase D and Ohkubo T. 2013. Inhibitory mechanism of signal transduction through chicken leptin receptor by suppressor of cytokine signaling 3 (SOCS3). *Jpn. Poult. Sci.* 50:262-269
- Adachi H, Murase D, Atomura S, and Ohkubo T. 2012. Detection of Leptin Activity in Living Cells Expressing Chicken Leptin Receptor and STAT3. *J. Poult. Sci.* 49: 46-50
- Ali M, Hossain MS, Akter S, Khan MAHNA and Hossain MM. 2013. Pathogenesis of infectious coryza in chickens (*Gallus gallus*) by Avibacterium paragallinarum isolate of Bangladesh. *The Agriculturist*. 11(1): 39-46
- Alyethodi RR, Singh U, Kumar S, Deb R, Alex R, Sharma S, Sengar GS and Prakash B. 2016. Development of a fast and economical genotyping protocol for bovine leukocyte adhesion deficiency (BLAD) in cattle. *SpringerPlus*. 5: 1442
- Amills M, Jimenez N, Villalba D, Tor M, Molina E, Cubilo D, Marcos C, Francesch A, Sanchez A and Estany J. 2003. Identification of three single nucleotide polymorphisms in the chicken insulin-like growth factor 1 and 2 genes and their associations with growth and feeding traits. *Poult Sci.* 82:1485-1493
- Anang A, Indrijani H dan Sundara TA. 2007. Model Matematika Kurva Produksi Telur Ayam Broiler Breeder Parent Stock (*The Mathematical Models For Egg Production Curve In Broiler Breeder Parent Stock*). *Jurnal Ilmu Ternak*. 7(1): 6-11
- Anggitasari S, Sjoftan O and Djunaidi IH. 2016. Pengaruh beberapa jenis pakan komersial terhadap kinerja produksi kuantitatif dan kualitatif ayam pedaging. *Buletin Peternakan*. 40(3): 187-196
- Ashwell CM, Czerwinski SM, Brocht DM and McMurtry JP. 1999. Hormonal regulation of leptin expression in Broiler chickens. *Am. J. Physiol.* 276:R226-R232
- Assan N. 2015. Methodology and factors influencing the association of body weight, performance parameters with linear body measurements assessment in poultry. *Sci. J. Pure Appl. Sci.* 4(10): 200- 210
- Bai H, Zhu J, Sun Y, Liu R, Liu N, Li D, Wen J and Chen J. 2014. Identification of genes related to beak deformity of chicken using digital gene expression profiling. *PLoS ONE*. 9(9): e107050
- Bamidele O, As P Van and Elferink MG. 2012. Molecular Characterization of the Leptin Receptor Gene as a Candidate Gene in the Pulmonary Hypertension Syndrome in Broiler Chickens. *Pak. J. Biol. Sci.* 15:24:1187-1190
- Belitz HD, Grosch W and Schieberle P. 2009. Eggs. *Food Chemistry*. p: 546-561

- Cheng HW. 2010. Breeding of tomorrow's chickens to improve well-being. *Poult. Sci.* 89: 805-813
- Dai HC, Long LQ, Zhang XW, Zhang WM and Wu XX. 2007. Cloning and Expression of the Duck Leptin Gene and the Effect of Leptin on Food Intake and Fatty Deposition in Mice. *Asian- Australasian Journal of Animal Sciences.* 20:6:850–55
- Darwati S, Hasyim AR, Rukmiasih and Prabowo S. 2016. *Growth performance of pelung sentul kampung meat type chicken crossing on age 0-10 weeks.* Marjuki, Ridlowi A, Jaya F, Susilowati T, Wittayakun S, Bottema CDK, Alimon AR, Hsia LC, Thiruvenkadan AK, editors. Proceeding of the 3rd Animal Production International Seminar (3rd APIS) & 3rd ASEAN Regional Conference on Animal Production (3rd ARCAP). Batu (Indones): Universitas Brawijaya. p. 484-487
- Darwati, S. 2000. Produktivitas Ayam Kampung, Pelung dan Resiprokalnya. *Med. Pet.* 23(2): 32-35
- Daryono BS, Roosdianto I dan Saragih HTS. 2010. Pewarisan karakter fenotip ayam hasil persilangan ayam Pelung dengan ayam Cemani. *J. Vet.* 11(4): 257-263
- Das SC, Chowdhury SD, Khatun MA, Nishibori M, Isobe N and Yoshimura Y. 2008. Poultry production profile and expected future projection in Bangladesh. *World's Poult. Sci. Assoc.* 64: 99-118
- de Verdal H, Narcy A, Bastianelli D, Chapuis H, Mème N, Urvoix S, Le Biham-Duval E and Mignon-Grasteau S. 2011. Improving the efficiency of feed utilization in poultry by selection. 1. Genetic parameters of anatomy of the gastro-intestinal tract and digestive efficiency. *BMC Genet.* 12: 59
- Depison. 2009. Karakteristik Kuantitatif dan Kualitatif Hasil Persilangan Beberapa Ayam Lokal. *Jurnal Ilmiah Ilmu-Ilmu Peternakan.* 12(1): 7-13
- Diwyanto K dan Prijono SN. 2007. *Keanekaragaman sumber daya hayati ayam lokal Indonesia: manfaat dan potensi.* Bogor (Indones): Lembaga Ilmu Pengetahuan Indonesia
- Duguma R. 2006. Phenotypic characterization of some indigenous chicken ecotypes of Ethiopia. *Livestock Res. Rural Dev.* 18(9)
- Duman M, Şekeroğlu A, Yıldırım A, Eleroğlu H and Camcı Ö. 2016. Relation between egg shape index and egg quality characteristics. *Europ. Poult.Sci.* 80: 1-9
- Dunn IC, Boswell T, Friedman-Einat M, Eshdat Y, Burt DW and Paton IR. 2000. Mapping of the leptin receptor gene (*LEPR*) to chicken chromosome 8. *Anim. Genet.* 31:290
- Dunn IC, Girishvarma G, Talbot RT, Waddington D, Boswell T and Sharp PJ. 2001. Evidence for low homology between the chicken and mammalian leptin genes. In: *Avian Endocrinology* (Dawson A and Chaturvedi CM eds.). p. 327-336. Narosa Publishing House. New Delhi
- El Ghany FAA, El Dein A, Soliman MM, Reza AM and El Sodany SM. 2011. Relationships between some body measurements and fertility in males of two local strains of chicken. *Egypt Poult. Sci.* 31:331–349

- Eldik P. van, van der Waaij EH, Ducro B, Kooper AW, Stout TAE and Colenbrander B. 2006. Possible Negative Effects of Inbreeding on Semen Quality in Shetland Pony Stallions. *Theriogenology*. 65: 1159-1170
- El-Moujahid EM, Chen S, Jin S and Lu Y. 2014. Association of leptin receptor gene polymorphisms with growth and feed efficiency in meat-type chickens. *Poult. Sci*. 93:1910–1915
- Ernanto AR, Afifah D, Lesmana I and Daryono, BS. 2018. Isolation of DNA from chicken (*Gallus gallus domesticus* Linnaeus, 1758) feather with lysis buffer-phenol chloroform isoamyl alcohol method (PCI) and chelex method. Proceeding of 5<sup>th</sup> International Conference on Biological Sciences. Yogyakarta (Indones): Universitas Gadjah Mada. p. 1-5
- Ernanto AR. 2017. Asosiasi Polimorfisme Gen *PRL* dan *IGF-I* terhadap Produktivitas Telur Ayam (*Gallus gallus domesticus* Linnaeus, 1758) F<sub>1</sub> Hasil Persilangan Ayam Pelung dan Layer. Thesis. Universitas Gadjah Mada. Yogyakarta
- Fahey AG, Marchant-Forde RM and Cheng HW. 2007. Relationship between body weight and beak characteristics in one-day-old White Leghorn chicks: Its Implications for Beak Trimming. *Poult. Sci*. 86: 1312-1315
- Fayeye TR, Hagan JK and Obadare AR. 2013. Morphometric traits and correlation between body weight and body size traits in Isa Brown and Ilorin ecotype chickens. *Iranian J. Appl. Anim. Sci*. 4(3): 609-614
- Ferket PR and Gernat AG. 2006. Factors that affect feed intake of meat birds: A review. *Int. J. Poult. Sci*. 5:905–911
- Frame DD. 2009. Molting and determining production of laying hens. DVM, Extension Poultry Specialist. 2009-01pr. <https://ucanr.edu/sites/poultry/files/186896.pdf>
- Friedman-Einat M, Boswell T, Horev G, Girishvarma G, Dunn IC, Talbot RT and Sharp PJ. 1999. The chicken leptin gene: has it been cloned?. *Gen. Comp. Endocrinol*. 115:354–363
- Gebriel GM, Kalamah MA, El-Fiky AA, Ali AFA. 2009. Some factors affecting semen quality traits in norfa cocks. *Egypt Poult. Sci*. 29: 677–693
- Gheyas AA, Boschiero C, Eory L, Ralph H, Kuo R, Woolliams JA and Burt DW. 2015. Functional classification of 15 million SNPs detected from diverse chicken populations. *DNA Res*. 22(3): 205–217
- Gu Z, Zhao J, Li H, Meng H, Wang Q, and Zhu D. Single nucleotide polymorphism analysis in chicken leptin receptor exon 9. Animal Science Northeast Agricultural University. *unpublished*.
- Guo, C, McDowell IC, Nodzenski M, Scholtens, DM, Allen AS, Lowe WL and Reddy TE. 2017. Transversions have larger regulatory effects than transitions. *BMC Genomics*. 18: 394
- Habibah I. 2018. Karakter Fenotip, Koefisien *Inbreeding* dan Polimorfisme Gen *cTYR* Intron 4 Pada Ayam (*Gallus gallus gallus* Linnaeus, 1758) Hibrida Golden Kamper. Skripsi. Fakultas Biologi Universitas Gadjah Mada
- Halverson MA, Skelly DK and Caccone A. 2006. Inbreeding Linked to Amphibian Survival in the Wild but Not in the Laboratory. *Journal of Heredity*. 97(5): 499-507

- Hameed T, Mustafa MZ, Taj MK, Asadullah, Bajwa MA, Bukhar FA, Kiani MMT and Ahmed A. 2016. Hatchability and fertility in broiler breeder stock. *J. Chem. Biol. Phy. Sci.* 6(2): 266-274
- Han JC, Qu HX, Wang JG, Chen GH, Yan YP, Zhang JL, Hu FM, You LY and Cheng YH. 2015. Comparison of the growth and mineralization of the femur, tibia, and metatarsus of broiler chicks. *Brazilian J. Poult. Sci.* 17(3): 333-340
- Han J. 2014. Origin and evolution of molecular diversity of indigenous animal genetic resources. An invited plenary paper presented in the 16th AAAP Congress. Yogyakarta (Indonesia): Universitas Gadjah Mada
- Hassan KMd, Kabir HMd, Sultana S, Hossein Amd and Haq MM. 2016. Management and production performance of Cobb-500 broiler parent stock under open housing system. *Asian Australas J. Biosci. Biotechnol.* 1(1): 66-72
- Hasyim AR. 2015. *Performa hasil persilangan ayam kampung ras pedaging dengan pelung sentul pada umur 0-11 minggu.* (Thesis). [Bogor: (Indonesia)]: Institut Pertanian Bogor
- Havenstein G, Ferket P, and Qureshi M. 2003. Growth, livability, and feed conversion of 1991 vs. 1957 *Broilers* when fed typical 1957 and 2001 *Broiler* diets. *Poultry Science.* 82(March): 1500–1508.
- Havlíček M, Nedomová Š, Simeonovová J, Severa L and Křivánek I. 2008. On The Evaluation Of Chicken Egg Shape Variability. *Acta univ. agric. et silvic. Mendel. Brun.* 56(5): 69–74
- Henuk YL, Bale-Therik JF, Dewi GAK and Bailey CA. 2015. Native chickens and their production systems in Indonesia. *Khon Kaen Agr. J.* 43(2): 20-24
- Henuk YL and Bailey CA. 2014. Husbandry systems for native chickens in Indonesia. Pp. 759 – 762. In: Proceedings of the 16th AAAP Animal Science Congress. Yogyakarta (Indones): Universitas Gadjah Mada
- Hill WG. 2010. Understanding and using quantitative genetic variation. *Phil. Trans. R. Soc. B.* 365: 73-85
- Horev G, Einat P, Aharoni T, Eshdat Y and Friedman-Einat M. 2000. Molecular cloning and properties of the chicken leptin-receptor (*CLEPR*) gene. *Mol. Cell Endocrinol.* 162:95–106
- Hossner KL. 1998. Cellular, molecular and physiological aspects of leptin: Potential application in animal production. *Can. J. Anim. Sci.* 78:463–472
- Ikegwu TM, Balogu VT, Balogu DO, Kolo SI and Babatunde J. 2016. Physical Properties of Hen's Egg. *Journal of Foods, Natural and Life Sciences.* 1: 16 – 23
- International Chicken Genome Sequencing Consortium. 2004. Sequence and comparative analysis of the chicken genome provide unique perspectives on vertebrate evolution. *Nature* 432: 695–716
- Iskandar S dan Susanti T. 2007. *Karakter dan Manfaat Ayam Pelung di Indonesia.* Balai Penelitian Ternak. Bogor. Hal: 128-136
- Joller S, Bertschinger F, Kump E, Spiri A, von Rotz A, Schweizer-Gorgas D, Drogemuller C and Flury C. 2018. Crossed beaks in a local swiss chicken breed. *BMC Vet. Res.* 14: 68

- Kabir, MdA, Islam MS and Dutta RK. 2012. Egg morphometric analyses in chickens and some selected birds. *Univ. j. zool. Rajshahi Univ.* (31): 85-87
- Kapa Biosystems. 2016. KAPA Taq ReadyMix PCR Kit. p: 1-2
- Kartasudjana R and Suprijatna E. 2010. *Manajemen ternak unggas*. Cetakan Kedua. Jakarta (Indones): Penerbit Penebar Swadaya
- Kartika AA, Widayati KA, Burhanuddin, Ulfah A and Farajallah A. 2016. Eksplorasi preferensi masyarakat terhadap pemanfaatan ayam lokal di Kabupaten Bogor Jawa Barat. *Jurnal Ilmu Pertanian Indonesia (JIPI)*. 21(3): 180-185
- Kerje S, Sharma P, Gunnarsson U, Kim H, Bagchi S, Fredriksson R, Schutz K, Jensen P, von Heijne G, Okimoto R and Andersson L. 2004. The dominant white, dun and smoky color variants in chicken are associated with insertion/deletion polymorphisms in the PMEL17 Gene. *Genetics*. 168: 1507-1518
- Klok MD, Jakobsdottir S and Drent ML. 2007. The Role of Leptin and Ghrelin in the Regulation of Food Intake and Body Weight in Humans: A Review. *Obesity Reviews*. 8:1:21–34.
- Konig S, Tsehay F, Sitzenstock F, von Borstel UU, Schmutz M, Preisinger R and Simianer H. 2010. Evaluation of inbreeding in laying hens by applying optimum genetic contribution and gene flow theory. *Poultry Science*. 89: 658-667
- Landsverk ML and Wong LJC. 2013. *Next Generation Sequencing: Translation to Clinical Diagnostics*. New York. p: 19-36
- Li H, Deeb N, Zhou H, Mitchell AD, Ashwell CM and Lamont SJ. 2003. Chicken Quantitative Trait Loci for Growth and Body Composition Associated with Transforming Growth Factor- $\beta$  Genes. *Poultry Science*. 82: 347 - 356
- Liu X, Dunn IC, Sharp PJ and Boswell T. 2007. Molecular cloning and tissue distribution of a short form chicken leptin receptor mRNA. *Domest. Anim. Endocrinol.* 32:155–166
- Liyanage RP, Dematawewa CMB and Silva GLLP. 2015. Comparative Study on Morphological and Morphometric Features of Village Chicken in Sri Lanka. *Tropical Agricultural Research*. 26(2): 261 – 273
- Lohmann Tierzucht. 2019. *Management Guide Layers*. Germany. p: 1-40
- Lukanov H, Genchev A and Pavlov A. 2015. Colour Traits Of Chicken Eggs With Different Eggshell Pigmentation. *Trakia Journal of Sciences*. 2: 149-158
- Mabelebele M, Norris D, Siwendu NA, Ng'ambi JW, Alabi OJ and Mbajiorgu CA. 2017. Bone morphometric parameters of the tibia and femur of indigenous and broiler chickens reared intensively. *Appl. Ecol. Environ. Res.* 15(4): 1387-1398
- Mahardhika, IWS and Daryono BS. 2019. Kambro Chicken Phenotype Hybrid of ♀ Broiler Cobb 500 Cross ♂ Pelung Blikir Hitam. *Indonesian Journal of Animal and Veterinary. unpublished*
- Mariandayani HN, Darwati S, Sutanto E and Sinaga E. 2017. Peningkatan produktivitas ayam lokal melalui persilangan tiga rumpun ayam lokal pada generasi kedua. Prosiding Seminar Nasional Biologi 2017:



- Pendidikan Biologi untuk Masa Depan Bumi. Aceh (Indones): Jurusan Pendidikan Biologi, Universitas Syiah Kuala. p. 139-146
- Mariandayani HN, Solihin DD, Sulandari S and Sumantri C. 2013. Keragaman fenotipik dan pendugaan jarak genetik pada ayam lokal dan ayam broiler menggunakan analisis morfologi. *J Vet.* 14(4): 475-484.
- Martin A, Dunnington EA, Gross WB, Briles WE, Briles RW and Siegel PB. 1990. Production traits and allo antigen systems in lines of chickens selected for high or low antibody responses to sheep erythrocytes. *Poult. Sci.* 69:871–878
- Medrano RFV and de Oliveira. 2014. Guidelines for the Tetra-Primer ARMS–PCR Technique Development. *Mol. Biotechnol.* 56:599–608
- Mrázová L, Angelovi M, and Král M. 2012. Monitoring the Expression of Leptin Receptor in Avian Model. *Anim. Sci. Biotech.* 45(1): 322–327
- Naka T, Narazaki M, Hirata M, Matsumoto T, Minamoto S, Aono A, Nishimoto N, Kajita T, Taga T, Yoshizaki K, Akira S and Kishimoto T. 1997. Structure and function of a new STAT-induced STAT inhibitor. *Nature.* 387: 924-929
- Narushin VG. 2005. Egg Geometry Calculation Using the Measurements of Length and Breadth. *Poultry Science.* 84:482–484
- Nataamijaya AG. 2005. Karakteristik Penampilan Pola Warna Bulu, Kulit, Sisik Kaki, dan Paruh Ayam Pelung di Garut dan Ayam Sentul di Ciamis. *Buletin Plasma Nutfah* (11) 1: 1-5
- Nataamijaya AG. 2010. Pengembangan Potensi Ayam Lokal Untuk Menunjang Peningkatan Kesejahteraan Petani. *Jurnal Litbang Pertanian*, 29(4): 131- 133
- Navara KJ, Anderson EM and Edwards ML. 2012. Comb size and color relate to sperm quality: a test of the phenotype-linked fertility hypothesis. *Behav. Ecol.* 12: 1036-1041
- Newton CR, Graham A, Heptinstall LE, Powell SJ, Summers C, Kalsheker N, Smith JC and Markham AF. 1989. Analysis of any point mutation in DNA. The amplification refractory mutation system (ARMS). *Nucleic Acid Research.* 17(7): 2503-2516
- Nie Q, Mingming L, Jianhua Q, Hua Z, Guanfu Y and Xiquan Z. 2005. Original article identification and characterization of single nucleotide polymorphisms in 12 chicken growth-correlated genes by denaturing high performance liquid chromatography. *Genet. Sel. Evol.* 37:339-360
- Nietlisbach P, Keller LF, Camenish G, Guillaume F, Arcesee P, Reid JM and Postma E. 2017. Pedigree-based inbreeding coefficient explains more variation in fitness than heterozygosity at 160 microsatellites in a wild bird population. *Proc. R.Soc. B.* 284: 2016 - 2763
- Ningsih R and Prabowo DW. 2017. Tingkat integrasi pasar ayam broiler di sentra produksi utama: studi kasus Jawa Timur dan Jawa Barat. *Buletin Ilmiah Litbang Perdagangan.* 11(2): 247- 270
- Ninov K, Ledur MC, Alves HJ, Rosário MFdo, Nones K, and Coutinho LL. 2008. Investigation of Leptin gene in *Broiler* and *Layer* chicken lines. *Scientia Agricola*, 65(2), 214–219

- Niv-Spector L, Raver N, Friedman-Einat M, Grosclaude J, Gussakovsky EE, Livnah O and Gertler A. 2005. Mapping Leptin-Interacting Sites in Recombinant Leptin-Binding Domain (LBD) Subcloned from Chicken Leptin Receptor. *Biochem. J.* 390:475–484
- Nurfadillah S, Rachmina D and Kusnadi N. 2018. Impact of trade liberalization on Indonesian broiler competitiveness. *J. Indonesian Trop. Anim. Agri.* 43(4): 429-437
- Nurhuda SA. 2017. Pertumbuhan generasi ketiga hasil persilangan ayam lokal dengan ayam ras pedaging sampai umur 12 minggu (Thesis). [Bogor: (Indones)]: Institut Pertanian Bogor
- Nuroso. 2010. *Ayam kampung pedaging hari per hari*. Jakarta (Indones): Penebar Swadaya
- Nwagu BI, Olorunju SAS, Oni OO, Eduvie LO, Adeyinka IA, Sekoni AA and Abeke FO. 2007. In-Breeding Effect on Performance of Rhode Island Chickens Selected for Part-Period Egg Production. *International Journal of Poultry Science.* 6(1): 13-17
- Ohkubo T and Adachi H. 2008. Leptin signaling and action in birds. *Journal of Poultry Science.* 45:269-273
- Ohkubo T, Nishio M, Tsurudome M, Ito M and Ito Y. 2007. Existence of leptin receptor protein in chicken tissues: isolation of a monoclonal antibody against chicken leptin receptor. *General and Comparative Endocrinology.* 151:269-273
- Ohkubo T, Tanaka M and Nakashima K. 2000. Structure and tissue distribution of chicken leptin receptor (*cOb-R*) mRNA. *Biochimica et Biophysica Acta.* 1491: 303-308
- Ohkubo T. 2014. Recent Progress in Avian Leptin Research Recent Progress in Avian Leptin Research. *J. Poult. Sci.* 51:343-351
- Oldenbroek K and van der Waaij L. 2014. *Textbook animal breeding: animal breeding and genetics for BSc students*. Centre for Genetic Resources (Netherlands): The Netherlands and Animal Breeding and Genomics Centre
- Paczoska-Eliasiewicz HE, Gertler A, Proszkowiec M, Proudman J, Hrabia A, Sechman A and Rzasz J. 2003. Attenuation by leptin of the effects of fasting on ovarian function in hens (*Gallus domesticus*). *Reproduction.* 126:6: 739–751
- Pauwels J, Coopman F, Cools A, Michiels J, Fremaut D, de Smet S and Janssens GPJ. 2015. Selection for growth performance in broiler chickens associates with less diet flexibility. *PLoS ONE.* 10(6): e0127819
- Paxton H, Tickle PG, Rankin JW, Codd JR and Hutchinson JR. 2014. Anatomical and biomechanical traits of broiler chickens across ontogeny. Part II. Body segment inertial properties and muscle architecture of the pelvic limb. *Peer J.* 2: e473
- Peng B, Wang Q, Luo Y, He J, Tan T, and Zhu H. 2017. A novel and quick PCR- based method to genotype mice with a leptin receptor mutation (db / db mice). *Acta Pharmacologica Sinica.* 2017: 1-7
- Pinard-van der Laan MH, Siegel PB, and Lamont SJ. 1998. Lessons from selection experiments on immune response in the chicken. *Poult. Avian Biol. Rev.* 9: 125–141

- Pitel F, Bergé R, Coquerelle G, Crooijmans RPMA, Groenen MAM, Vignal A, and Tixier-Boichard M. 2000. Mapping the Naked Neck (NA) and Polydactyly (PO) mutants of the chicken with microsatellite molecular markers. *Genet. Sel Evol.* 32: 73–86
- Pratama A, Suradi K, Balia RL, Chairunnisa H, Sutardjo DS, Suryaningsih L dan Putranto S. 2015. Evaluasi Karakteristik Sifat Fisik Karkas Ayam Broiler Berdasarkan Bobot Badan Hidup (*Evaluation of physical characteristics of broiler carcasses based on live*). *Jurnal Ilmu Ternak.* 15(2): 61–64.
- Rahman MR, Chowdhury SD, Hossain ME and Ahammed M. 2015. Growth and early laying performance of a broiler parent stock in an open-sided house under restricted feeding. *Bangladesh J. Anim. Sci.* 44(1): 40-45
- Richards MP and Poch SM. 2003. Molecular cloning and expression of the turkey leptin receptor gene. *Comparative Biochemistry and Physiology. Biochemistry and Molecular Biology.* 136: 833-847
- Sartika T, Sopiya S and Iskandar S. 2010. Performa ayam sentul koleksi ex-situ di balai penelitian ternak. Pengembangan peternakan berkelanjutan: sistem produksi berbasis ekosistem lokal. Hernaman I, Tanuwira UH, Lengkey HAW, Yumiati H, Sulistyati M, Hidayati YA, Herlina L, Indrijani H, Sujana E, Putranto WS, Islami RZ, Widiawati Y, Sofyan O, Syamsu JA, penyunting. Prosiding Seminar Nasional Peternakan Berkelanjutan ke-2. Jatinangor (Indones): Fakultas Peternakan Universitas Padjajaran. p. 39-51
- Sartika T, Sulandari S, Zein MSA and Paryati S. 2016. Mengangkat potensi genetik dan produktivitas ayam gaok. Kementerian Pertanian RI, penyunting. Prosiding Lokakarya Nasional Pengelolaan dan Perlindungan Sumber Daya Genetik di Indonesia: Manfaat Ekonomi untuk Mewujudkan Ketahanan Nasional. Bogor (Indones): Badan Litbang Pertanian. p. 251-256
- Sawitri R dan Takandjandji M. 2012. Inbreeding pada Populasi Banteng (*Bos javanicus*, d'Alton 1832) di Kebun Binatang Surabaya. *Buletin Plasma Nutfah.* 18(2): 84-94
- Schmid M, Nanda I, Guttenbach M, Steinlein C, Hoehn M, Scharl M and Mizuno S. 2000. First report on chicken genes and chromosomes 2000. *Cytogenetic and Genome Research.* 90(3–4): 169–218
- Schmid M, Nanda I, Hoehn H, Scharl M, Haaf T, Buerstedd JM and Mizuno S. 2015. Third Report on Chicken Genes and Chromosomes. *BioR.* 14: 1–19
- Schmid M, Nanda I, Hoehn H, Scharl M, Haaf T, Buerstedde JM and Mizuno S. 2005. Second report on chicken genes and chromosomes 2005. *Cytogenetic and Genome Research.* 109(4): 415–479
- Schwartz MW, Seeley RJ, woods SC, Weigle DS, Campfield LA, Burn P and Baskin DG. 1997. Leptin increase hypothalamic pro-opiomelanocortin mRNA expression in the rostral arcuate nucleus. *Diabetes.* 46: 2119 - 2123
- Sekeroğlu A, Kayaalp GT and Sarica M. 2000: The Regression and correlation analysis on egg parameters in Denizli poultry. *Journal of Agricultural Faculty, Cukurova University.* 15: 69-74



- Semakula J, Lusembo P, Kugonza DR, Mutetikka D, Ssenyonjo J and Mwesigwa M. 2011. Estimation of live body weight using zoometrical measurements for improved marketing of indigenous chicken in the Lake Victoria basin of Uganda. *Livestock Res. Rural Dev.* 23(8)
- Seroussi E, Cinnamon Y, Yosefi S, Genin O, Smith JG, Rafati N and Friedman-Einat M. 2016. Identification of the long-sought leptin in chicken and duck: Expression pattern of the highly GC-rich avian leptin fits an autocrine/paracrine rather than endocrine function. *Endocrinology.* 157(2): 737–751
- Seroussi E, Pitel F, Leroux S, Morisson M, Bornelöv S, Miyara S and Friedman-Einat M. 2017. Correction: Mapping of leptin and its syntenic genes to chicken chromosome 1p. *BMC Genetics.* 18(1): 1–8
- Setiawati T, Afnan R dan Ulupi N. 2016. Performa Produksi dan Kualitas Telur Ayam Petelur pada Sistem Litter dan Cage dengan Suhu Kandang Berbeda. *Jurnal Ilmu Produksi dan Teknologi Hasil Peternakan.* 4(1): 197-203
- Sewalem A, Johansson K, Wilhelmson M and Lippers K. 1999. Inbreeding and inbreeding depression on reproduction and production traits of White leghorn lines selected for egg production traits. *J. Dairy Sci.* 40: 203 - 208
- Shad AGK, Zalani AM and Nasr J. 2013. Estimation of Genetic Parameters, Inbreeding Trend and its Effects on Production and Reproduction Traits of Native Fowls in Fars Province. *Pakistan Journal of Biological Sciences.* 16(12): 598-600
- Shim MY, Karnuah AB, Mitchell AD, Anthony NB, Pesti GM and Anggrey SE. 2012. The effects of growth rate on leg morphology and tibia breaking strength, mineral density, mineral content, and bone ash in broilers. *Poult. Sci.* 91: 1790-1795
- Sogindor BA. 2017. Performa pertumbuhan hasil persilangan ayam lokal dengan ayam ras pedaging umur 1 sampai 12 minggu (Thesis). [Bogor: (Indones)]: Institut Pertanian Bogor
- Solikin T, Tanwiriah W dan Asmara IY. 2016. Bobot akhir, bobot karkas, dan income over feed and chick cost ayam sentul Barokah Abadi Farm Ciamis. *Student e-Journal Fakultas Peternakan Universitas Padjadjaran.* 5(4): 1-9.
- Starr R, Willson TA, Viney EM, Murray LJ, Rayner JR, Jenkins BJ, Gonda TJ, Alexander WS, Metcalf D, Nicola NA and Hilton DJ. 1997. A family of cytokine-inducible inhibitors of signalling. *Nature.* 387: 917-921.
- Statistik Peternakan dan Kesehatan Hewan. 2017. Jakarta (Indones): Direktorat Jenderal Peternakan dan Kesehatan Hewan Kementerian Pertanian RI. p. 91-92
- Sudrajat dan Isyanto AY. 2018. Keragaan peternakan ayam sentul di Kabupaten Ciamis. *Jurnal Pemikiran Masyarakat Ilmiah Berwawasan Agribisnis.* 4(2): 237-253
- Sun Y, Zhao G, Liu R, Zheng M, Hu Y, Wu D, Zhang L, Li P and Wen J. 2013. The identification of 14 new genes for meat quality traits in chicken using a genome-wide association study. *BMC Genomics.* 14: 458

- Suprijatna E. 2010. Strategi pengembangan ayam lokal berbasis sumber daya lokal dan berwawasan lingkungan. Seminar Nasional Unggas Lokal ke IV. Sunarti D, Suprijatna E, Mahfudz LD, Sarengat W, Karno, Nuswantara LK, Surono, Sarjana TA, penyunting. Bogor (Indones): Fakultas Peternakan Universitas Diponegoro. p. 55-88
- Suwandi. 2015. Outlook komoditas pertanian subsektor peternakan daging ayam. Jakarta (Indones): Pusat Data dan Sistem Informasi Pertanian Sekretariat Jenderal Kementerian Pertanian. p. 8-27
- Szwaczkowski T, Katarzyna Cywa-Benko and Stanislaw W. 2003. A note on inbreeding effects on productive and reproductive traits in laying hens. *Animal Science Papers and Reports*. 21: 121-129
- Tamzil MH, Lestari L and Indarsih B. 2018. Measurement of several qualitative traits and body size of Lombok Muscovy ducks (*Cairina moschata*) in semi-intensive rearing. *J. Indonesian Trop. Anim. Sci.* 43(4): 333-342
- Tanha HM, Mojtabavi NM, Rahgozar S, Rasa SM and Vallian S. 2015. Modified tetra-primer ARMS PCR as a single-nucleotide polymorphism genotyping tool. *Genet. Test Mol. Biomarkers*. 19(3): 156 - 161
- Taouis M, Chen JW, Daviaud C, Dupont J, Derouet M and Simon J. 1998. Cloning the chicken leptin gene. *Gene*. 208: 239-242
- Telalbasic R, Baban M and Rahmanovic A. 2007. Inbreeding. *Biotechnology in Animal Husbandry*. 23(5-6): 113 - 130
- Udeh I, Ugwu SOC and Ogagifo NL. 2011. Predicting semen traits of local and exotic cocks using linear body measurements. *Asian J. Anim. Sci.* 5: 268–276
- Ukwu HO, Okoro VMO and Nosike RJ. 2014. Statistical modelling of body weight and linear body measurements in Nigerian indigenous chicken. *IOSR J. Agri. Vet. Sci.* 7(1): 27-30
- van der Pol CW, Molenaar R, Buitink CJ, van Roovert-Reijrink IAM, Maatjens CM, van den Brand H and Kemp B. 2015. Lighting schedule and dimming period in early life: consequences for broiler chicken leg bone development. *Poult. Sci.* 94: 2980-2988
- Wakchaure R and Ganguly S. 2015. Inbreeding, its Effects and Applications in Animal Genetics and Breeding: A Review. *International Journal of Emerging Technology and Advanced Engineering*. 5(9): 73-76
- Walpole RE. 1995. *Pengantar statistika*. Jakarta (Indones): Gramedia Pustaka Umum
- Wang F, Lu L, Yuan H, Tian Y, Li J, Shen J, Tao Z and Fu Y. 2011. Molecular cloning, expression, and regulation of goose leptin receptor gene in adipocytes. *Molecular and Cellular Biochemistry*. 353: 267-274
- Wang Y, Li H, Zhang Y, Gu Z, Li Z and Wang Q. 2006. Analysis on Association of a SNP in the Chicken *OBR* Gene with Growth and Body Composition Traits. *Asian-Aust J. Anim. Sci.* 19(12): 1706–1710.
- Waranusast R, Intayod P and Makhod D. 2017. Egg Size Classification on Android Mobile Devices Using Image Processing and Machine Learning. Department of Electrical and Computer Engineering Faculty of Engineering, Naresuan University, Phitsanulok, Thailand.
- Wilson, D. 2010. *Poultry a guide to anatomy and selected species*. Illinois (USA): ITCS Instructional Materials University of Illinois. p. 3-4

- Wolc A, Zhao HH, Arango J, Settari P, Fulton JE, O'Sullivan NP, Preisinger R, Stricker C, Habier D, Fernando RL, Garrick DJ, Lamont SJ and Dekker JCM. 2015. Response and inbreeding from a genomic selection experiment in layer chickens. *Genomic Selection Evolution*. 47: 59
- Xu J, Lin S, Gao X, Nie Q, Luo Q and Zhang X. 2017. Mapping of id locus for dermal shank melanin in a chinese indigenous chicken breed. *J. Gen.* 96(6): 977-983
- Yakubu A, Kuje D and Okpeku M. 2009. Principal components as measures of size and shape in Nigerian indigenous chickens. *Thai. J. Agri. Sci.* 42(3): 167-176
- Ye S, Humphries S and Green F. 1992. Allele specific amplification by tetra-primer PCR. *Nucleic Acid Ressearch*. 20(5): 1152
- Ye S, Dhillon S, Ke X, Collins AR, and Day INM. 2001. An efficient procedure for genotyping single nucleotide polymorphisms. *Nucleic Acid Res.*, 29(17)
- Yerturk M, Avci M and Bozkaya F. 2008. Effects of closed breeding on some reproductive performance of a small Japanese quail flock in Sanliurfa. *J. Anim. Vet. Adv.* 7: 963 - 967
- Zhang W and Aggrey SE. 2003. Genetic variation in feed utilization efficiency of meat-type chickens. *World's Poult. Sci. J.* 59: 328–339
- Zhang Y, Proenca R, Maffei M, Barone M, Leopold L and Friedman JM. 1994. Positional cloning of the mouse obese gene and its human homologue. *Nature*. 372: 425–431
- Zhou P, Zheng W, Zhao C, Shen C and Sun G, 2009, in IFIP International Federation for Information Processing, Volume 295, Computer and Computing Technologies in Agriculture II, Volume 3, eds. D. Li, Z. Chunjiang, (Boston: Springer). pp: 1647–1653