DAFTAR PUSTAKA

Abdallah, B.M., Jensen, C.H., Gutierrez, G., Leslie, R.G., Jensen, T.G., and Kassem, M. 2004. Regulation of human skeletal stem cells differentiation by Dlk1/Pref-1. *J. Bone Miner. Res.* 19: 841-852.

Adinugraha, B.S., dan Wijayaningrum, T.N. 2017. Rancangan Acak Lengkap dan Rancangan Acak Kelompok pada bibit ikan. Seminar Nasional Pendidikan, Sains dan Teknologi Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Muhammadiyah Semarang: 47-56.

Al-Musawi, S.L., Lock, F., Smbi, B.H., Bayol, S.A.M., and Stickland, N.C. 2011. Muscle specific differences in the regulation of myogenic differentiation in chickens genetically selected for divergent growth rates. *Differentiation* 82: 127-135.

Al-Nasser, A., Al-Khalaifa, H., Al-Saffar, A., Khalil, F., Al-Bahouh, M., Ragheb, G., Al-Haddad, A., and Mashaly, M. 2010. Overview of chicken taxonomy and domestication. *Worlds Poult. Sci. J.*

Addisu, H., Hailu, M., and Zewdu, W. 2013. Indigenous chicken production system and breeding practice in North Wollo, Amhara Region, Ethiopia. *Poult. Fish Widl. Sci.* 1(2): 108.

Andersen, D.C., Laborda, J., Baladron, V., Kassem, M., Sheikh, S.P., Jensen, C.H. 2013. Dual role of delta-like homolog 1 (DLK1) in skeletal muscle development and adult muscle regeneration. *Development* 140: 3743-3753.

Anonymous[1]. 2002. *American Egg Farming: How Do We Produce An Abundance of Affordable, Safe Food and How Animal Activists May Limit Our Ability to Feed Our Nation and World.* (http://www.unitedegg.org/information/pdf/American_Egg_Farming.pdf). Diakses tanggal 6 Juni 2016.

Anonymous[2]. 2009. *Leghorn Chicken.* (http://livestockconservancy.org/index.php/heritage/internal/leghorn). Diakses tanggal 7 Juni 2016.

Berri, C., Le Bihan-Duval, E., Debut, M., Santé-Lhoutellier, V., Baéza, E., Gigaud, V., Jégo, Y., and Duclos, M.J. 2007. Consequence of muscle hypertrophy on characteristics of Pectoralis major muscle and breast meat quality of broiler chickens. *J. Anim. Sci.* 85: 2005–2001.

Bustin, S.A. and Mueller, R. 2005. Real-time reverse transcription PCR (qRT-PCR) and its potensial use in clinical diagnosis. *Clin. Sci.* 109: 365-379.

Bergstrom, D.A., Penn, B.H., Strand, A, Perry, M., Rudnicki, A., and Tapscott, S.J. 2002. Promoter-specific regulation of MyoD binding and signal transduction cooperate to pattern gene expression. *Molecular Cell* 9: 587–600.

Cahyono, B. dan Samadi, B. 2007. *Cara Mudah Beternak Ayam Hibrida dan Crossbreed untuk Hewan Potong.* Pustaka Mina. Jakarta, p. 1-6.

Choi. Y.M., Suh, Y., Shin, S., and Lee, K. 2014. Skeletal muscle characterization of Japanese quail line selectively bred for lower body weight as avian model of delayed muscle growth with hypoplasia. *PLOS One*. 9(4): e95932. doi:10.1371/journal.pone.0095932.

Choo, Y.K., Oh, S.T., Lee, K.W., Kang, C.W., Kim, H.W., Kim, C.J., Kim, E.J., Kim, H.S., and An, B.K. 2014. The growth performance, carcass characteristics, and meat quality of egg-type male growing chicken and white-mini broiler in comparison with commercial broiler (Ross 308). *Korean J. Food Sci. An.* 34(5): 622–629. doi: 10.5851/kosfa.2014.34.5.622.

Conover, W.J. 1999. Practical Nonparametric Statistics. John Wiley & Sons. NewYork, p. 128.

Cresswell, D.C. and Gunawan, B. 1982. Indigenous chicken in Indonesia: production characteristics in an improved environment. *Research Institute for Animal Production.* Bogor, Indonesia.

Darigan, D., Hsu, A.L., Fraser, A.G., Kamath, R.S., Ahringer, J., and Kenyon, C. 2002. Genetic analysis of tissu aging in *Caenorhabditis elegans*: a role for heat-shock factor and bacterial proliferation. *Genetics* 161:1101-1112.

Davis, E., Jensen, C.H., Schroder, H.D., Farnir, F., Shay-Hadfield, T., Kliem, A., Cockett, N., Georges, M., and Charlier, C. 2004. Ectopic expression of DLK1 protein in skeletal muscle of padumnal heterozygotes causes the callypyge phenotype. *Curr. Biol.* 14: 1858-1862.

Dierick, E., Hirvonen, O.P., Haesebrouck, F., Ducatelle, R., Van Immerseel, F., and Goossens, E. 2019. Rapid growth predisposes broilers to necrotic enteritis. *Avian Pathology* 48(5): 416□422.

Duggan, D.J., Bittner, M., Chen, Y., Meltzer, P., and Trent, J.M. 1999. Expression profiling using cDNA microarrays. Review. *Nature Genetics* 21: 10-14.

Ehlers, M.L., Celona, B. and Black, B.L. 2014. NFATc1 controls skeletal muscle fiber type and is a negative regulator of MyoD activity. *Cell Reports* 8: 1639–1648.

Ekarius, C. 2007. *Storey's illustrated guide to poultry breeds*, 1st edn. Storey Publishing. North Adams, p. 23.

Fernandez, A.M., Dupont, J., Farrar, R.P., Lee, S., Stannard, B., and Le Roith, D. 2002. Muscle-specific inactivation of IGF-1 receptor induces compensatory hyperplasia in skeletal muscle. *J. Clin. Investig.* 109(3): 347-355.

Georgiades, P., Watkins, M., Surani, M.A., and Ferguson-Smith, A.C. 2000. Parental origin-specific developmental defects in mice with uniparental disomy chromosome 12. *Development* 127: 4719-4728.

Gerhart, J., Neely, C., Elder, J., Pfautz, J., Perlman, J., Narciso, L., Linask, K. K., Knudsen, K., and George-Weinstein, M. 2007. Cells that express MyoD mRNA in the epiblast are stably committed to the skeletal muscle lineage. The Journal of Cell Biology 178(4): 649–660. doi: 10.1083/jcb.200703060.

Griffin, J., St-Pierre, N., Lilburn, M.S., and Wick, M. 2017. Transcriptional comparison in leghorn and low score normal embryos. *Poultry Science* 00:1-13.

Golan, D., Lander, E.S. and Rosset, S. 2014. Measuring missing heritability: inferring the contribution of common variants. *Proc. Natl. Acad. Sci USA.* 111(49): E5272–E5281.

Guernec, A., Berri, C., Chevalier, B., Wacrenier-Cere, N., Le Bihan-Duval, E., and Duclos, M.J. 2003. Muscle development, insulin-like growth factor-I and myostatin mRNA levels in chickens selected for increased breast muscle yield. *Growth Hormone & IGF Research* 13 (2003) 8–18.

Gunnarsson, U., Kerje, S., Bed'Hom, B., Sahlqvist, A.S., Ekwall, O., Boichard, M.T., Kämpe, O., and Andersson, L. 2011. The dark brown plumage color in chickens is caused by an 8.3 kb deletion upstream of SOX10. *Pigment Cell Melanoma Res.* 24: 268–274. doi: 10.1111/j.1755-148X.2011.00825.x.

Guo-Bin, C., Li-Li, L., Xue-Yu, Z., Ke-Hua, W., Rong, C. De-Qin, L., and Guo-Hong, C. 2010. Developmental rule of intramuscular fat content in chicken. *J. Anim. Vet. Adv.* 9(2):297–298.

Hart, J.F. 2003. *The Changing Scale of American Agriculture*. University of Virginia Press. USA, p.124.

Hocquette, J.F, Gondret, F., Baéza, E., Médale, F., Curie, J., and Pethick, D.W. 2010. Intramuscular fat content in meat-producing animals: development, genetic and nutritional controls, and identification of putative markers. *Animal* 4(2):303–319.

Hollemans, M.S, de Vries, S., Lammers, A., and Clouard, C. 2018. Effects of early nutrition and transport of 1-day-old chickens on production performance and fear response. *Poult. Sci.* 97:2534–2542.

Hoque, M.R., Jin, S., Heo, K.N., Kang, B.S., Jo, C., and Lee, J.H. 2013. Investigation of MC1R SNPs and their relationships with plumage colors in Korean native chickens. *Asian Australasian J. Anim. Sci.* 26:625–629.

Iskandar, S. 2005. Pertumbuhan dan perkembangan karkas ayam silangan Kedu x Arab pada dua sistem pemberian ransum. *JITV* 10(4): 253–253.

_____. 2006. Strategi pengembangan ayam lokal. *WARTAZOA* 16(4): 190–197.

_____ dan Susanti, T. 2007. Karakteristik dan manfaat ayam pelung di Indonesia. *WARTAZOA* 17(3): 128–136.

Ismail, I. and Joo, S.T. 2017. Poultry meat quality in relation to muscle growth and muscle fiber characteristics. *Review. Korean J. Food Sci. An*. 37(6): 873–883.

Jares, P. 2006. DNA microarray applications in functional genomics. *Ultrastructural Pathology* 30(3): 209–219.

Jia, J., Ahmed, I., Liu, L., Liu, Y., Xu, Z., Duan, X., Li, Q., Dou, T., Gu, D., Rong, H., Wang, K., Li, Z., Talpur, M.Z., Huang, Y., Wang, S., Yan, S., Tong, H., Zhao, S., Zhao, G., te Pas, M.F.W., Su, Z., and Ge, C. 2018. Selection for growth rate and body size have altered the expression profiles of somatotropic axis genes in chickens. *PLoS ONE* 13(4): e0195378.

Jiang, R. S. and N. Yang. 2007. Effect of day-old-body weight on subsequent growth, carcass performances and levels of growth-related hormones in quality meat-type chicken. Short Communication. *Arch. Geflügelk* 71(2):93–96.

Joo, S.T., Hwang, Y.H., and Frank, D. 2017. Characteristics of Hanwoo cattle and health implications of consuming highly marbled Hanwoo beef. *Meat Sci.* 132, 45-51.

Kadam, M.M., Bhanja, S.K., Mandal, A.B., Thakur, R., Vasan, P., Bhattacharyya, A. and Tyagi, J.S. 2008. Effect of *in ovo* threonine supplementation on early growth, immunological responses and digestive enyme activities in broiler chickens. *Br. Poult. Sci.* 49(6):736–741.

Kementerian Pertanian. 2015. *Tabel Rata-rata per Kapita Setahun Beberapa Makanan di Indonesia 2009-2013.* (http://www.pertanian.go.id/Indikator/tabe-15b-konsumsi-rata.pdf). Diakses tanggal 6 Juni 2016.

Kim, G.D., Jeong, J.Y., Moon, S.H., Hwang, Y.H., Park, G.B., and Joo, S.T. 2008. Effects of muscle fiber type on meat characteristics of chicken and duck breast muscle. 54th International Congress of Meat Science and Technology. 10-15 August 2008, Cape Town, South Africa

Knowles, T.G., Kestin, S.C., Haslam, S.M., Brown, S.N., Green, L.E., Butterworth, A., Pope, S. J., Pfeiffer, D., and Nicol, C.J. 2008. Leg disorders in broiler chickens: prevalence, risk factors and prevention. *PLoS ONE* 3(2): e1545.

Koutalianos, D., Koutsoulidou, A., Mastroyiannopoulos, N.P., Furling, D. and Phylactou, L.A. 2015. MyoD transcription factor induces myogenesis by inhibiting Twist-1 through miR-206. *Journal of Cell Science* 128: 3631–3645. doi: 10.1242/jcs.172288.

Koohmaraie, M., Kent, M.P., Shackelford, S.D., Veiseth, E., and Wheeler, T.L. 2002. Meat tenderness and muscle growtth: is ther any relationship?. Review. *Meat Science* 62 (2002): 345-352.

Krista, B. dan Harianto, B. 2010. *Buku Pintar Beternak dan Bisnis Ayam Kampung.* Agro Media Pustaka. Jakarta, hal.10, 27.

Le Bihan-Duval, E., Debut, M., Berri, C.M., Sellier, N., Santé-Lhoutellier, V., Jégo, Y., and Beaumont, C. 2008. Chicken meat quality: genetic variability and relationship with growth and muscle characteristics. *BMC Genet*. 9:53.

Lesmana, I. 2016. Asosiasi Polimorfisme Gen FSHR dengan Perkembangan Folikel Ovarium Ayam Hibrida (*Gallus gallus gallus* (Linn, 1758)) Hasil Persilangan ♀ Ras Petelur dengan ♂ Pelung. *Tesis*. Fakultas Biologi UGM. Yogyakarta.

Li, L., Liu, H.H., Xu, F., Si, J.M., Jia, J., and Wang, J.W. 2010. MyoD expression profile and developmental differences of leg and breast muscle in Peking duck (A*nas platyrhynchos Domestica*) during embryonic to neonatal stages. *Micron* 41: 847-852.

Li, H., Zhu, C., Tao, Z., Xu, W., Song, W., Hu, Y., Zhu, W., and Song, C. 2014. MyoD and Myf6 gene expression patterns in skeletal muscle during embryonic and posthatch development in domestic duck (*Anas platyrhynchos domestica*). *J. Anim. Breed. Genet.* 131: 194-201.

Listrat, A., Lebret, B., Louveau, I., Astruc, T., Bonnet, M., Lefaucheaur, L., Picard, B., and Bugeon, J. 2016. How Muscle Structure and Composition Influence Meat and Flesh Quality. *Review. Sci. World. J.* 2016: 1–14.

Mahardika, I.W.S. and Daryono, B.S. 2019. Phenotypic performance of Kambro corssbreeds of female broiler Cobb 500 and male pelung blirik hitam. *Buletin Veteriner Udayana* 11(2): 188–202.

Maltin, C., Balcerzak, D., Tilley, R., and Delday, M. 2003. Determinants of meat quality: tenderness. *Proceedings of the Nutrition Society*. 62: 337–347.

Mastrangelo, S., Cendron, F., Sottile, G., Niero, G., Portolano, G., Biscarini, F., and Cassandro, M. 2020. Genome-wide analyses identifies known and new markers responsible of chicken plumage colors. *Animals*. 10: 493. doi:10.3390/ani10030493.

Mebratie,W., Madsen, P., Hawken, R., Romé, H., Marois, D., Henshall, J., Bovenhuis, H., and Jensen, J. 2019. Genetic parameters for body weight and different definitions of residual feed intake in broiler chickens. *Gen. Sel. Evol.* 51:53.

Mestdagh, P., van Vlierberghe, P., De Weer, A., Muth, D., Wetermann, F., Speleman, F., and Vandesompele, J. 2009. A novel and universal method for micro RNA RT-qPCR data normalization. *Genome Biology* 2009, 10: R64.

Mir, N. A., Rafiq, A., Kumar, F., Singh, V., and Shukla, V. 2017. Determinants of broiler chicken meat quality and factors affecting them: a review. *J. Food. Sci. Technol.* 54(10):2997–3009.

Mitterberger, M. C., Lechner, S., Mattesich, M., Kaiser, A., Probst, D., Wenger, N., Pierer, G., and Zwerschke, W. 2012. DLK1(PREF1) is a negative regulator of adipogenesis in CD105+/CD90+/CD34+/CD31-/FABP4- adipose-derived stromal cells from subcutaneous abdominal fat pats of adult women. *Stem Cell Res.* 9: 35–48.

Momoh, O. M., Nwosu, C. C., and Adeyinka, I. A. 2010. Comparative evaluation of two Nigerian local chicken ecotypes and their crosses for growth traits. *Int. J. Poult. Sci.* 9(8): 738-743.

Mueller, S., Taddei, L., Albiker, D., Kreuzer, M., Siegrist, M., Messikommer, R.E., and Gangnat, I.D.M. 2019. Growth, carcass, and meat quality of 2 dual-purpose chickens and a layer hybrid grown for 67 or 84 D compared with slow-growing broilers. *J. Appl. Poult. Res.* 29: 185–196. doi: https://doi.org/10.1016/j.japr.2019.10.005.

Muir, W.M. and Aggrey, S.E. 2003. *Poultry Genetics, Breeding and Biotechnology*. CABI Publishing. United Kingdom, p.95.

Nataamijaya, A.G. 1985. Ayam Pelung: performan dan permasalahannya. *Pros. Seminar dan Forum Peternak Unggas dan Aneka Ternak* 150-158.

_____. 2000. The native of chicken of Indonesia. *Bull. Plasma Nutfah* 6(1): 1-6.

_____. 2005. Karakteristik penampilan pola warna bulu, kulit, sisik kaki, dan paruh ayam Pelung di Garut dana yam Sentul di Ciamis. *Bull. Plasma Nutfah* 11(1): 1-6.

_____. 2008. Karakteristik dan produktivitas ayam Kedu hitam. *Bull. Plasma Nutfah* 14(2): 85-89.

Nygard, A.B., Jørgensen, C.B., Cirera, S., and Fredholm, M. 2007. Selection of reference genes for gene expression studies in pig tissues using SYBR green qPCR. *BMC Mol. Biol.* 8: 67.

Parr, T., Mareko, M.H.D., Ryan, K.J.P., Hemmings, K.M., Brown, D.M., and Brameld, J.M. 2016. The impact of growth promoters on muscle growth and the potential consequences for meat quality. *Meat Science* 120: 93-99.

Petracci, M. and Cavani, C. 2012. Muscle growth and poultry meat quality issues. *Nutrients* 4(1): 1-12.

Pramudyanti, Y.S. 2009. *Petunjuk Teknis Beternak Ayam Buras.* BPTP Sumatera Selatan, p. 6.

Pusdatin Kementan. 2019. *Buletin Konsumsi Pangan* Volume 10 No. 1. Sekretariat Kementerian Pertanian Indonesia. Jakarta, hal. 72.

Puspita, U.E., Utomo, R.T., Perdamaian, A.B.I., Lesmana, I., Arijuddin, H., Erwanto, Y., Daryono, B.S.D., and Saragih, H.T.S.G. 2017. Effect of varying levels of protein and energy in pre-starter feed on pectoralis muscle development of kampung super chicks (*Gallus gallus gallus*). *Asian J. Anim. Vet. Adv.* 12(1): 31-37.

Rasyaf, M. 2008. *Panduan beternak ayam pedaging.* Penebar Swadaya. Depok, hal.12.

Rehfeldt, C., Fiedler, I., Dietl, G., Ender K. 2000. Myogenesis and postnatal skeletal muscle cell growth as influenced by selection, Livestock Production Science 66: 177–188.

Santos, A.L., Sakomura, N.K., Freitas, E.R., Fortes, C.M.S., and Carrilho, E.N.V.M. 2005. Comparison of free range broiler chicken strains raised in confined or semi-confined systems. *Brazilian J. Poult. Sci.* 7(2): 85□92.

Sampath, S.C., Sampath, S.C. and Millay, D.P. 2018. Myoblast fusion confusion: the resolution begins. *Skeletal Muscle* 8:3. doi: 10.1186/s13395-017-0149-3.

Saragih, H.T.S.S.G., Roosdianto, I., and Daryono, B.S.D. 2017. Pectoralis thoracicus muscle performance of hybrid chicken (F_1) derived from crossbreed between Broiler and Pelung (*Gallus gallus gallus*). *Jurnal Kedokteran Hewan* 11(2): 62-64.

Sartika, T. 2012. Ketersediaan sumberdaya genetik ayam local dan strategi pengembangannya untuk pembentukan *parent* dan *grand parent stock. Workshop Nasional Unggas Lokal 2012*: 15-23.

Sawhney, S. and Gandotra, R. 2010. Growth response and feed conversion efficiency of *Tor putitora* (Ham.) fry at varying dietary protein levels. *Pakistan Journal of Nutrition* 9(1): 86-90.

Scheuermann, G.N., Bilgili, S.F., Suzun, T., and Mulvaney, D.R. 2004. Comparison of chicken genotypes: myofiber number in pectoralis muscle and myostatin ontogeny. *Poul. Sci.* 83: 1404-1412.

Shin, J., Lim, S., Latshaw, J.D., and Lee, K. 2008. Cloning and expression of Delta-Like Protein 1 messenger ribonucleic acid during development of adipose and muscle tissues in chickens. *Poultry Science* 87:2636-2646.

_____, Velleman, S.G., Latshaw, J.D., Pick, M.P., Suh, Y., and Lee, K. 2009. The ontogeny of delta-like protein 1 messenger ribonucleic acid expression during muscle development

and regeneration: comparison of *Broiler* and leghorn chickens. *Poultry Science* 88:1427-1437.

Shu, J.T., Xu, W.J., Zhang, M., Song, W.T., Shan, Y.J., Song, C., Zhu, W.Q., Zhang, X.Y., and Li, H.F. 2014. Transcriptional co-activator PGC-1α gene is associated with chicken skeletal muscle fiber types. *Gen. Mol. Res.* 13(1): 895-905.

Siekmann, L., Meier-Dinkel, L., Janisch, S., Altmann, B., Kaltwasser, C., Sürie, C., and Krischek, C. 2018. Carcass quality, meat quality and sensory properties of the dual-purpose chicken Lohmann Dual. *Foods* 7: 156. doi:10.3390/foods7100156.

Smith, K. 2010. *The History of Shaver Breeding Farms.* Hendrix Genetics. USA, p. 49.

Sokolowicz, Z., Krawczyk, J. and Świątkiewicz, S. 2016. Quality of poultry meat from native chicken breeds – a review. *Ann. Anim. Sci*. 16(2): 347–368.

Stange, M., Núñez-León, D., Sánchez-Villagra, M.R., Jensen, P., and Wilson, L.A.B. 2018. Morphological variation under domestication: how variable are chickens?. *R. Soc. Open Sci.* 5: 180993.

Talbot, J. and Maves, L. 2017. Skeletal muscle fiber type: using insights from muscle developmental biology to dissect targets for susceptibility and resistance to muscle disease. Wiley Interdiscip Rev Dev Biol. 2016 July ; 5(4): 518–534.

Texeira, L.C.R.S, and Yargeau, E. 2012. *Quantification of microorganisms using a functional gene approach.* P. 107. *In* Filion, M. *Quantitative Realtime PCR in Applied Microbiology*. Caister Academic Press, Norfolk, UK.

Torrescano, G. S., Sánchez-Esalante, A., Giménez, B., Roncalés, P., and Beltrán, J.A. 2003. Shear values of raw samples of 14 bovine muscles and their relation to muscle collagen characteristics. *Meat Sci.* 64:85–91.

Velleman, S.G. 2007. Muscle development in embryo and hatchling. Review. *Poultry Science* 86: 1050–1054.

Waddell, J.N., Zhanh, P., Wen, Y., Gupta, S.K., Yevtodiyenko, A., Schmidt, J.V., Bidwell, C.A., Kumar, A., and Kuang, S. 2010. Dlk1 is necessary for porper skeletal muscle development and regeneration. *PLoS ONE* 5(11): e15055. doi:10.1371/journal.pone.0015055.

Walujo, E.B. 2011. Keanekaragaman hayati untuk pangan. *Makalah Kongres Ilmu Pengetahuan Nasional X* 1–9.

Watson, S., Mercier, S., Bye, C., Wilkinson, J., Cunningham, A.L., and Harman, A.N. 2007. Determination of suitable housekeeping genes for normalisation of quantitative real time PCR analysis of cells infected with human immunodeficiency virus and herpes viruses. *Virol. J.* 4: 130.

Yin, H., Li, D., Wang, Y., Zhao, X., Liu, Y., Yang, Z., and Zhu, Q. 2015. Myogenic regulatory factors (MRFs) expression is affected by excercise in postnatal chicken skeletal muscle. *Gene* 561: 292–299.

Yu, S., Wang, G., Laio, J., Tang, M., and Sun, W. 2018. Transcriptome profile analysis of mechanisms of black and white plumage determination in black-bone chicken. *Cell Physiol. Biochem.* 46: 2373–2384.