

DAFTAR PUSTAKA

- Afifah, D., Lesmana, I., Poerwanto, S.H., Trijoko., Mahardhika, I.W.S., Daryono, B.S. 2020. Expression of *Mx* Exon-13 SNPs in *Kampung*-Laying type (*Kamper*) chicken crossbreeds of female Lohmann brown-classic and male *Pelung*. *BIODIVERSITAS*. 21(4) : 1483-1487
- Al-Nasser, A., Al-Khalaifa, H., Al-Saffar, A., Khalil, F., Al-Bahouh, M., Ragheb, G., Al-Haddad, A., Mashaly, M. 2007. Overview of Chicken Taxonomy and Domestication. *World Poultry Science Journal*. Vol 63 : 285-300
- Anh, N. T., Kunhareang, S., & Duangjinda, M. 2015. Association of Chicken Growth Hormones and Insulin-like Growth Factor Gene Polymorphisms with Growth Performance and Carcass Traits in Thai Broilers. *Asian-Australasian journal of animal sciences*. 28(12), 1686–1695. <https://doi.org/10.5713/ajas.15.0028>
- Anonim. 2008. Indonesia Salah Satu Pusat Domestikasi Ayam Dunia. *Warta Penelitian dan Pengembangan Pertanian*. 30(5).
- Arisuryanti, T., Handayani, N.S.N., Daryono, B.S. 2007. *Inbreeding*. Bahan Ajar Genetika
- Artati, D. 2013. Sensitivitas gel red sebagai pewarna DNA pada gel elektroforesis. *Bul. Tek. Lit. Akuakultur*. 11(1): 11-14
- Beccavin, C., Chevalier, B., Cogburn, L. A., Simon, J., and Duclos, M. J. 2001. Insulin-like growth factors and body growth in chickens divergently selected for high or low growth rate. *J. Endocrinol*; 168: 297-306.
- Bhattacharya, T.K., Chatterjee, R.N., Dushyanth, K., Paswan, C., Shukla, R., & Shanmugam, M. 2015. Polymorphism and expression of insulin-like growth factor 1 (IGF1) gene and its association with growth traits in chicken. *British Poultry Science*. 56(4), 398–407. doi:10.1080/00071668.2015.1041098
- Bisht, S.S., and Panda, A.K. 2014. *DNA sequencing: methods and applications*. In *Advances in Biotechnology*. Springer, New Delhi
- CABI. 2019. *Gallus gallus domesticus* (chicken). <https://www.cabi.org/isc/datasheet/82019#totaxonomicTree>, [Diakses pada 5 Oktober 2020 pukul 02:45 WIB]
- Chacon-Cortes, D.F., and Griffiths, L. 2014. Methods for extracting genomic DNA from whole blood samples: current perspectives. *Journal of Biorepository Science for Applied Medicine*. 2014(2), pp. 1-9.
- Cleland, W. 1964. Dithiothreitol, A New Protective Reagent For Sh Groups. *Biochemistry*. 3:480-482
- Cooke, D. W., & Casella, S. J. 1994. The 5'-untranslated region of the IGF-I receptor gene modulates reporter gene expression by both pre- and post-transcriptional mechanisms. *Molecular and cellular endocrinology*, 101(1-2), 77–84. [https://doi.org/10.1016/0303-7207\(94\)90221-6](https://doi.org/10.1016/0303-7207(94)90221-6)
- Damayanti, P.A, Daryono, B.S, Mahardhika, I.W.S (2019) Inheritance and comparison of phenotypic characters from hybrid chicken GK-Bro (*Gallus gallus* Linnaeus, 1758). *Biogenesis*. 7(2): 94 99. <https://doi.org/10.24252/bio.v7i2.9493>
- Damayanti, P.A. 2020. *Asosiasi Polimorfisme Gen Chicken Growth Hormone (cGH) terhadap Pertumbuhan Ayam F4 Golden Kamper (Gallus gallus Linnaeus, 1758)*. Skripsi. Universitas Gadjah Mada. Yogyakarta.
- Damaziak, K., Charuta, A., Niemiec, J., Tatara, M. R., Krupski, W., Gozdowski, D., & Kruzińska, B. 2019. Femur and tibia development in meat-type chickens with

- different growth potential for 56 days of rearing period. *Poultry Science*.
Doi:10.3382/ps/pez445
- Daryono, B.S. & Perdamaian, A.B.I. 2019. *Karakterisasi dan Keragaman Genetik Ayam Lokal Indonesia*. Yogyakarta: UGM Press. hal 47-57.
- Daryono, B.S., Roosdianto, I., dan Saragih, H.T.T.T. 2010. Pewarisan karakter fenotip ayam hasil persilangan ayam pelung dengan ayam cemani. *Jurnal Veteriner*. 11 (4):257-273.
- Dewi, S. H. C. 2013. Kualitas kimia daging ayam kampung dengan ransum berbasis konsentrat broiler. *Jurnal AgriSains* 4(6) : 1
- Diamos, A. G., Rosenthal, S. H., & Mason, H. S. 2016. 5' and 3' Untranslated Regions Strongly Enhance Performance of Geminiviral Replicons in *Nicotiana benthamiana* Leaves. *Frontiers in Plant Science*, 7. doi:10.3389/fpls.2016.00200
- Elrod, S.L. and Stansfield, W.D. 2006. *Genetics Fourth Edition*. McGraw-Hill Companies. New York.
- Ernanto, A.R. 2017. *Asosiasi Polimorfisme Gen PRL Dan IGF-1 terhadap Produktivitas Telur Ayam (*Gallus gallus domesticus* Linnaeus, 1758) F₁ Hasil Persilangan Ayam Pelung dan Layer*. Thesis. Universitas Gadjah Mada. Yogyakarta.
- Fadilah, R dan Fatkhuroji. 2013. *Memaksimalkan Produksi Ayam Ras Petelur*. PT AgroMedia Pustaka. Jagakarsa. Hal. 12
- Firdaus, Z. 2009. *Korelasi antara Pelatihan Teknis Perpajakan, Pengalaman dan Motivasi Pemeriksa Pajak dengan Kinerja Pemeriksa Pajak pada Kantor Pelayanan Pajak di Jakarta Barat*. Fakultas Ekonomi dan Ilmu Sosial Universitas Islam Negeri Syarif Hidayatullah Jakarta
- Fitriani, A., Alim, S., & Herlina, L. 2019. Strategi Pengembangan Usaha Pemeliharaan Ayam Pelung di Kabupaten Cianjur. *Jurnal Peternakan Indonesia (Indonesian Journal of Animal Science)*. 21(1), 34-50.
doi:<https://doi.org/10.25077/jpi.21.1.34-50.2019>
- Fujita, S., Honda, K., Yamaguchi, M., Fukuzo, S., Saneyasu, T., & Kamisoyama, H. 2019. Role of *Insulin-like Growth Factor-1* in the Central Regulation of Feeding Behavior in Chicks. *The journal of poultry science*. 56(4), 270–276.
<https://doi.org/10.2141/jpsa.0180127>
- Futuyma, D.J. 2013. *Evolution*. 3rd ed. Sunderland: Sinauer.
- González-Cerón, F., R. Rekaya, and S. E. Aggrey. 2015. Genetic analysis of bone quality traits and growth in a random mating broiler population. *Poult. Sci*. 94:883–889
- Habibah I. 2018. *Karakter fenotip, koefisien inbreeding, dan polimorfisme gen ctyr intron 4 pada ayam (*Gallus gallus gallus* Linnaeus, 1758) hibrida Golden Kamper*. Skripsi. Yogyakarta
- Hakim, L., Nova, K., Santosa, P.E. & Riyanti, R. 2021. Pengaruh perbedaan jenis kelamin terhadap frekuensi nafas, denyut jantung, suhu shank, dan suhu rektal Ayam KUB. *Jurnal Riset & Inovasi Peternakan*. 2(2): 94-98.
- Hilz, H., Wieggers, U., and Adamietz, P. 1975. Stimulation of proteinase K action by denaturing agents: application to the isolation of nucleic acids and the degradation of 'masked' proteins. *Eur J Biochem*. 56(1):103-108
- Irawan, B. 2010. *Genetika: Penjelasan Mekanisme Pewarisan Sifat*. Surabaya: Airlangga University Press. hal 70-72.

- Iskandar, S. dan Susanti, T. 2007. *Karakter dan Manfaat Ayam Pelung di Indonesia*. Balai Penelitian Ternak. Bogor. Hal: 128-136.
- Jacob, J. (2017). *External Anatomy of Poultry Kept on Small or Backyard Flocks : Chicken*. Ohio State University Extension
- Jin, S., Lee, J.H., Seo, D.W., Cahyadi, M., Choi, N.R., Heo, K.N., Jo, C., Park, H.B. 2016. A Major Locus for Quantitatively Measured Shank Skin Color Traits in Korean Native Chicken. *Asian Austraias Journal Animal Science*. 29(11) ; 1555-1561
- Johnson, J.R. 2000. Development of Polymerase Chain Reaction-Based Assays for Bacterial Gene Detection. *Journal of Microbiological Methods*. 41:201-209
- Julien-Grille, S., Moore, R., Denat, L., Morali, O.G., Delmas, V., Bellacosa, A., & Larue, L. 2013. The Role of Insulin-like Growth Factors in the Epithelial to Mesenchymal Transition. In: Madame Curie Bioscience Database [Internet]. Austin (TX): *Landes Bioscience*; 2000-2013. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK5964/>
- Kajimoto, Y., & Rotwein, P. 1991. Structure of the chicken insulin-like growth factor I gene reveals conserved promoter elements. *The Journal of biological chemistry*. 266(15), 9724–9731.
- Khadem, A., Hafezian, H., Rahimi-Mianji, G. 2010. Association of single nucleotidepolymorphisms in IGF-I, IGF-II and IGFBP-II with production traits in breederhens of Mazandaran native fowls breeding station. *African journal of Biotechnology*, 9(6), 805-810.
- Knox, C.W. 1935. The Inheritance of Shank Colour in Chickens. *Genetics* 20 : 529-544
- Krista, B dan Harianto, B. 2010. *Buku Pintar Beternak dan Bisnis Ayam Kampung*. PT. Agromedia Pustaka. Jakarta. Hal: 27
- Küçükyılmaz, K., Bozkurt, M., Herken, E.N., Cinar, M., Catli, A.U., Bintas, E., Coven, F. 2012. Effects of rearing systems on performance, egg characteristics and immune response in two layer hen genotype.” *Asian-Australasian journal of animal sciences*. (25)4 : 559-68. doi:10.5713/ajas.2011.11382
- Kushimoto, T., Valencia, J.C., Getrude-E, Costin, Toyofuku, K., Watabe, H., Yasumoto, K., Rouzaud, F., Vieira, W.D., and Hearing, V.J. 2003. The Seiji memorial lecture: the melanosome: an ideal model to study cellular differentiation. *Pigment Cell Res*. 16, 237-244
- Lee, P.Y., Costumbrado, J., Hsu, C.Y., Kim, Y.H. 2012. Agarose gel electrophoresis for the separation of DNA fragments. *Journal of visualized experiments : JoVE*. (62):3923, doi:10.3791/3923
- Lesmana, I. 2016. *Asosiasi Polimorfisme Promoter Gen FSHR dengan Perkembangan Folikel Ovarium Ayam Hibrida Gallus gallus gallus (Linnaeus, 1758) Hasil Persilangan Betina Ras Petelur dengan Jantan Pelung*. Thesis. Universitas Gadjah Mada. Yogyakarta.
- Lorenz, T.C. 2012. Polymerase Chain Reaction : Basic Protocol Plus Troubleshooting and Optimization Strategies. *Journal of Visualized Experiments*. (63):3998. doi: [10.3791/3998](https://doi.org/10.3791/3998)
- Mahardhika, I.W.S. & Daryono, B.S. 2019. Phenotypic performance of Kambro Crossbreeds of Female Broiler Cobb 500 and Male Pelung Blirik Hitam. *Buletin Veteriner Udayana*. 11(2): 188-202.
- Mahardhika, I.W.S., Daryono, B.S., Dewi, A.A.C., Hidayat, S.N., Firmansyah, G.I., Setyowati, P.S., Riswanta, U.R., Pratama, M.D. 2020. Phenotypic traits, egg

- productivity, and body weight performance of Gama Ayam BC1 Kamper. *J Peternakan*. 17(1): 6–16. <http://dx.doi.org/10.24014/jupet.v17i1.7331>
- Makarova, A.V., Mitrofanova, O.V., Vakhrameev, A.B., Dementeva, N.V. 2019. Molecular Genetic Bases of Plumage Coloring in Chicken. *Vavilov Journal of Genetics and Breeding*. 23(3) : 343-354
- Nataamijaya, A.G. 1985. *Ayam Pelung: Performan dan permasalahannya*. Pros. Seminar dan Forum Peternak Unggas dan Aneka Ternak. Ciawi, 19 – 20 Maret 1985. Puslitbang Peternakan, Bogor. hlm. 150 – 158.
- Nataamijaya, A.G. 2005. Karakteristik Penampilan Pola Warna, Bulu, Kulit, Sisik Kaki dan Paruh Ayam Pelung di Garut dan Ayam Sentul di Ciamis. *Buletin Plasma Nufah*. 11 (1): 1
- Nataamijaya, A.G. 2010. Pengembangan potensi ayam lokal untuk menunjang peningkatan kesejahteraan petani. *Jurnal Litbang Pertanian*. 29(4): 131-138.
- North, M.O. & Bell D.E., 1990. *Commercial Chicken Production Manual 4th ed*. Van Nostrand Reinhold. 245-248.
- Nussey, S. and Whitehead, S. 2001. Endocrinology An Integrated Approach Chapter 7 : The Pituitary Gland. *BIOS Scientific Publishers* : Oxford, p 312
- Oberbauer, A.M. 2013. The regulation of IGF-1 gene transcription and splicing during development and aging. *Frontiers in Endocrinology*. 39(4)
- Perdamaian, A.B.I. 2016. Pengaruh Jenis Pakan Terhadap Ekspresi Gen *Insulin-like Growth Factor-1* (IGF-1) Pada Ayam (*Gallus gallus domesticus* Linnaeus, 1758) Hibrida. Thesis. Universitas Gadjah Mada. Yogyakarta.
- Perdamaian, A.B.I, Trijoko., Daryono, B.S. 2017. Pertumbuhan dan Keseragaman Warna Bulu Ayam Persilangan Balik (BC2) Hasil Seleksi Genetik Persilangan Ayam Pelung dengan Ayam Pedaging. *Jurnal Veteriner*. 18(4) : 557-564
- Picardal, J. P., Afable, F. A, Lagman, A., Campoto, E. A., Palada, E. and Marcos, Jr, M. 2015. Phenotypic Characterization of Native Chickens (*Gallus gallus domesticus*) in Eastern Samar, Philippines. *IAMURE International Journal of Ecology and Conservation*. 15. 10.7718/ijec.v15i1.1005.
- Rinderknecht, E., & Humbel, R. E. 1978. The amino acid sequence of human insulin-like growth factor I and its structural homology with proinsulin. *The Journal of biological chemistry*, 253(8), 2769–2776
- Rousset, F. 2002. Inbreeding and relatedness coefficients: what do they measure?. *Heredity*. 88, 371–380. <https://doi.org/10.1038/sj.hdy.6800065>
- Rukmana, H. R. 2003. *Ayam buras : identifikasi dan kiat pengembangan*. Penerbit Kanisius. Deresan. Hal : 15, 21-22
- Sartika, T., Suandri, S., Zein, M.S.A., dan Paryanti, S. 2006. *Karakter fenotip/genetik eksternal ayam lokal Indonesia*. Laporan akhir penelitian kompetitif riset karakterisasi molekuler LIPI. Hal:16.
- Sidadolog, J.H.P. 2011. *Pemuliaan Sebagai Sarana Pelestarian dan Pengembangan Ayam Lokal*. Pidato Pengukuhan Jabatan Guru Besar Fakultas Peternakan Universitas Gadjah Mada. Yogyakarta
- Siregar, S. 2013. *Statistik Parametrik untuk Penelitian Kualitatif*. Jakarta: Bumi Aksara
- Stover, K. K., Weinreich, D. M., Roberts, T. J., & Brainerd, E. L. 2018. Patterns of musculoskeletal growth and dimensional changes associated with selection and developmental plasticity in domestic and wild strain turkeys. *Ecology and Evolution*. 8(6), 3229–3239. doi:10.1002/ece3.3881

- Sudarmono, A.S. 2003. *Pedoman Pemeliharaan Ayam Ras Petelur*. Penerbit Kanisius. Yogyakarta. Hal 17-18
- Sudaryani, T & Santosa, H. 1994. *Pembibitan Ayam Ras*. Penebar Swadaya. Jakarta
- Sudjana. 2005. *Metoda Statistika*. Tarsito, Bandung
- Sulandari, S & Zein, M.S.A. 2009. Analysis of D-loop Mitochondrial DNA to Investigate the Position of Red Jungle Fowl in the Domestication Chicken in Indonesia. *Jurnal Media Peternakan*. 32(1):31-39
- Sulandari, S., Zein, M.S.A., Paryanti, S., dan Sartika, T. 2007. *Taksonomi dan asal usul ayam domestikasi. Dalam buku Keragaman Sumber Daya Hayati Ayam Lokal Indonesia: Manfaat dan Potensi*. Editor: Prof. Kusumo Diwyanto dan Siti Nuramaliati Prijono. Pusat Penelitian Biologi, LIPI. Edisi Pertama. Hal.:7-24
- Suryaman, 2010. *Perbandingan morfometri ayam kampung, ayam pelung dan ayam keturunan pertama (F₁) Persilangan Pelung Kampung Umur 5-12 Minggu*. Skripsi. Fakultas Peternakan. IPB.
- Tang, S., D. Sun, J. Ou, Y. Zhang, G. Xu, Y. Zhang (2010). Evaluation of the IGFs (IGF1 and IGF2) genes as candidates for growth, body measurement, carcass, and reproduction traits in Beijing You and Silkie chickens. *Animal biotechnology*. 21(2), 104-113. (4)
- Ummah, I.M., Mahardhika, I.W.S., Daryono, B.S. 2019. Morphological Traits, Productive Performance and Genotyping Fat Deposition PPAR Gene in Gama Ayam Crossbreeds of Female F₁ Kamper and Male BC1 Kambro. *BIOGENESIS*. 7(2) : 106-115
- Utama, I.V. 2016. *Asosiasi Polimorfisme gen Chicken Growth Hormone (cGH) Intron 3 (G1705A) Dengan Pertumbuhan Ayam (Gallus gallus domesticus, Linn. 1758) Backcross 1 Hasil Persilangan F₁ dan Pelung*. Skripsi. Universitas Gadjah Mada. Yogyakarta.
- Utiger, R. D. 2011. *insulin-like growth factor*. Encyclopedia Britannica. <https://www.britannica.com/science/insulin-like-growth-factor>. [Accesed 2 February 2022]
- Wahju, J. 1992. *Ilmu Nutrisi Unggas* Cetakan ke-3. Gadjah Mada University Press. Yogyakarta
- Wakchaure R, Ganguly S, Praveen PK, Kumar A, Sharma S, et al. (2015) Marker Assisted Selection (MAS) in Animal Breeding: A Review. *J Drug Metab Toxicol*. (6):127. doi:10.4172/2157-7609.1000e127
- Wheto, M., Ismaila, O.O., Adeleke, M.A., Adenaike, A.S., Peters, S.O., Yakubu, A., Adebambo, A.O., Ikeobi, C.O.N., & Adebambo, O.A. 2021. Sequence Analyses of Insulin-like Growth Factor 1 Gene in Nigerian Indigenous and Arbor Acre Chickens. *Genetika*. 53(1); 271-282. <https://doi.org/10.2298/GENSR2101271W>
- Yaman, M. A. 2010. *Ayam kampung unggul*. Penebar Swadaya. Jakarta. Hal 9.
- Yuwanta, T. 2004. *Dasar Ternak Unggas*. Kanisius. Yogyakarta. Hal: 57.
- Yuwanta, T. 2004. *Dasar Teknik Unggas*. Fakultas Peternakan, Universitas Gadjah Mada. Yogyakarta. Hal 10-18.
- Zhou, H., Mitchell, A. D., McMurtry, J. P., Ashwell, C. M., & Lamont, S. J. 2005. Insulin-like growth factor-I gene polymorphism associations with growth, body composition, skeleton integrity, and metabolic traits in chickens. *Poultry science*. 84(2), 212–219. <https://doi.org/10.1093/ps/84.2.212>