

DAFTAR PUSTAKA

- Ananthanarayan and C. K. J. Paniker's.2005. *Textbook of Microbiology 7th edition*.Orient Blackswan. Hyderabad. P: 54.
- Anonim.2013. *Buletin Konsumsi Pangan Volume 4 No. 3*. Pusat Data dan Sistem Informasi Pertanian. Jakarta. Hal : 44-45.
- Arijuddin, H. 2015. Karakterisasi Gen *Chicken Growth Hormone (cGH)* Penyandi Pada Pertumbuhan Ayam (*Gallus gallus domesticus* Linnaeus, 1758) GAMA Hibrida. *Skripsi*. Fakultas Biologi Universitas Gadjah Mada. P : 29-31.
- Barsh, G. S. and M. W. Schwartz. 2002. Genetic Approaches to Studying Energy Balance : Perception and Integration. *Nat Rev* 3:589-600.
- Campbell, N.A., J.B.Reece., L. A. Urry., M. L. Cain., S. A. Wasserman., P. V. Minorsky., and R. B. Jackson. 2008. *Biologi 8^{ed}* Jilid I. Erlangga. Jakarta.P: 373-374,437.
- Darwati, S., B. Pangestu., dan H. S. I. Rahayu., 2002. Karakteristik Genetik Eksternal Ayam Merawang. *Seminar Nasional Teknologi Peternakan dan Veteriner*. P:271.
- Daryono, B. S., I. Roosdianto, dan H.T.S. Saragih. 2010. Pewarisan Karakter Fenotip Ayam Hasil Persilangan Ayam Pelung dengan Ayam Cemani. *Veteriner* 11(4) : 257-263.
- Debra, G. B. and Leonard. 2007. *Molecular Pathology in Clinical Practice*. Springer Science. New York. P: 25.
- Dewi, S. H. C. 2013. Kualitas Kimia Daging Ayam Kampung dengan Ransum Berbasis Konsentrat Broiler. Fakultas Agroindustri. Universitas Mercu Buana. Yogyakarta. *Jurnal AgriSains* 4 (6) : 1.
- Dewi, M. E. A. 2016. Pertumbuhan dan Polimorfisme Gen *In-Like Growth Factors-I Receptor* Ekson 2 Pada Ayam (*Gallus gallus domesticus*, Linn. 1758) *Backcross* 2 hasil persilangan *Backcross* 1 dengan Pelung. *Skripsi*. Fakultas Biologi Universitas Gadjah Mada. Yogyakarta. P: 29-31.
- Ernanto, A. R. 2012. Pewarisan Karakter Fenotip Ayam Hibrida Hasil Persilangan Ayam (*Gallus gallus domesticus* Linnaeus, 1785)Pelung dengan *Broiler*. *Skripsi*. Fakultas Biologi Universitas Gadjah Mada. P : 3-6
- Fang, M., Q. Nie., C. Luo., D. Zhang and X. Zhang. 2006. An 8 bp indel in exon 1 of Ghrelin gene associataed with chicken growth. *Domestic animal endocrinology*. 32 (1):216-225.
- Fumihito, A. T. Miyake., M. Takada., R. Shingu., T. Endo., T. Gojobori., N. Kondo., and S. Ohno. 1996. Monophyletic Origin and Unique Dispersal Pattern of Domestic Fowls. *National Academy of Science*. 93 (13) : 6792-6795.
- Galas, D. J and S. J. McCormack. 2002. Genomic Technologies Present and Future Vol.1. *Britis Library Cataloguing in Publication Data*. P : 260.
- Gusrina. 2014. *Genetika dan Reproduksi Ikan*, Dee Publisher. Yogyakarta. P:89-90.
- Hardjosubroto, W. 1994. *Aplikasi Pemulia perkembangbiakan Ternak di Lapangan*. Grasindo. Jakarta. P :2-3, 97.

- Horvath, T. L. S. Diano., P. Sotonyi., M. Heiman and M. Tschop. 2001. Minireview : Ghreline and Regulation of Energy Balance – A Hypothalamic Perspesctive. *Journal of endocrinology* 142 (10) : 4163-4169.
- Hutt, F. B. 2003. *Genetics of Fowl : The Classic Guide to Poultry Breeding and Chicken Genetic*. Tata Mc. Graw-Hill Publishing Co. Ltd. New York. P : 150, 154, 162 – 164.
- Jin X., S. Yue., K. S. WellsandV. L. Singer. 1994. SYBR Green: I. A newfluorescent dye optomized for detection of picogram amounts of DNA in gels. *Biophys. J.*,66, p. A159.
- Jin, S., S. Chen and H. Li. 2014. Associations of polymorphis, in GHRL, GHSR and IGF1R genes With Feed Efficiency in Chickens. *Journal Mol.Biop. Rep* 41:3973-3979.
- Johari, S., Sutopo dan A. Santi. 2009. Frekuensi Fenotipik Sifat-Sifat Kualitatif Ayam Kedu Dewasa. *Seminar Nasional Kebangkitan*. Semarang. Hal : 3.
- Kaiya, H. S., V. D. Geyten., M. Kojima, H. Hosoda., Y. Kitajima., M. Matsumoto., S. Geelissen., V. M. Darras and K. Kangawa. 2002. Chicken ghrelin: Purification, cDNA cloning, and biological activity. *Endocrinol.* 143:3454-3463.
- Kitazawa, T., H. Kaiya and T. Taneike. 2006. Contractile effect of ghrelin-related peptides on the chicken gastrointestinal tract in vitro. *Journal peptide* 28:617-624.
- Koch, T. 1973. *Anatomy of The chicken and domestic birds*. Ames : Iowa State University Press.P: 456.
- Kojima. M., H. Hosoda., Y. Date., M. Nakazato., H. Matsuo and K. Kongawa. 1999. Ghrelin is a growth hormone releasing acylated peptide from stomach. *Nature* 402 (6762) : 656 – 660.
- Komar, A. A. 2009. *Single Nucleotide Polymorphism Method and Protocol 2nd ed.* Human Press. USA. P : 418-419.
- Krista, B. dan B. Harianto. 2011. *Pembesaran Ayam Kampung Pedaging*. AgroMedia Pustaka. 2011. P: 18-19.
- Lestari, F. 2010. *Bahaya kimia sampling dan pengukuran kontaminan bahaya udara*. Penerbit Buku Kedokteran EGC. Jakarta. Hal : 189.
- Li, C. C., J. Li., D. I. Mo., R. F. Xu., G. H. Chen., Y. Z. Qiangba., S. L. Ji., X. H. Tang., B. Fan., M. J. Zhu., T. A. Xiong., X. Guan andB. Liu. 2006. Polymorphism of Ghrelin Gene In Twelve Chinese Indigenouse Chicken Breeds and Its Relationship With Chicken Growth Traits. *Journal of Animal Science*. 19 (2): 153-159.
- Lotfi, A. H. A. Syahrar. And H. Kaiya. 2013. Effect of in Ovo GHRL Administration on Hatching Results and Post Hatching Performance of Broiler Chicken. *Journal Livestock Science* 154 : 158-164.
- Ma, J., Y. Yu., J. Xue., C. Ou., H. Mo and X. Liu. 2014. Tissue distribution and Development Changes of Ghreli and Goat Expression in Broiler Chicken During Embryogenesis. *General and Comparative Endocrinology* 213 : 130-135.
- Madhad, V. J. and K. P. Sentheil. 2014. The Rapid & Non-Enzymatic isolation of DNA from the Human Peripheral Whole Blood Suitable for Genotyping. *EuropeanJournal of Biotechnology and Bioscience* 1(3): 01 – 16.
- Melmed, S. 2011. *The Pituitary 3rd edition*. Academic Press. New York. P: 89.

- Muftuchah, A. Winaya dan A. Zainudin. 2014. *Teknik Dasar Biologi Molekular*. Dee Publisher. Yogyakarta. P : 67-69.
- Mulyono, M. B. dan B. Raharjo. 2008. *Ayam Jawa Super*. Agromedia Pustaka. Depok. Hal 8-11, 25.
- Nasution, I., S. Muthia dan Hamny. 2013. Rasio Ketebalan Dinding Terhadap Diameter Tulang Humerus Ayam Kampung (*Gallus domesticus*) dan Burung Merpati (*Columba domestica*). *Jurnal Medika Veterinaria* 7 (1) : 1.
- Nataamijaya, A. G. 1985. Ayam Pelung : Performance dan permasalahannya. *Prosiding Seminar Peternakan dan Forum Peternak Unggas dan Aneka Ternak*. Pusat Penelitian dan Pengembangan Peternakan. Bogor 19-20 Maret 1985. Hal : 150-158.
- Nie, Q., M. Fang., L. Xie., X. Peng., H. Xu., C. Luo., D. Zhang and X. Zhang. 2009. Molecular Characterization of The Ghrelin and Grelin Receptor Genes and Effects on Fat Deposition in Chicken and Duck. *Journal of Biomedicin and Biotechnology*. Article ID 567120. P : 1 – 4.
- North, M.O. and D. E. Bell. 1990. *Commercial Chicken Production Manual* 4th ed. Van Nostrand Reinhold. 245-248.
- Nugroho, E. D. dan D. A. Rahayu. 2016. *Penuntun Praktikum Bioteknologi*. Deepublisher. Yogyakarta. P: 21.
- Oktafiantari, R. 2014. Pewarisan Karakter Fenotip Ayam Hibrida (*Gallus gallus domesticus*, Linn. 1758) Hasil Persilangan Ayam ♀ Pelung dengan Ayam ♂ F₄. *Seminar*. Fakultas Biologi Universitas Gadjah Mada. 14-19.
- Putriani, S., I. G. Soma., I. B. K. Ardana. 2012. Nilai Hematokrit, Kadar Hemoglobin, dan Total Eritrosit Ayam Pedaging yang Diinjeksi Kombinasi Tylosindengan Gentamicin. *Jurnal Agrisistem* 3(1) : 2.
- Rael and H. Loon. 2005. *Birds The Inside Story*. Struik Publishers. Singapore. P: 31.
- Rahayu, B.W. I., A. E. P. Widodo., dan R. Sarunggalo. 2010. Penampilan Pertumbuhan Ayam Persilangan Kampung dan Bangkok. *Jurnal Ilmu Peternakan* 5 (2) : 1.
- Rasyaf, M. 1992. *Pengelolaan Usaha Peternakan Ayam Kampung*. KANISIUS. Yogyakarta. Hal : 13, 16, 32.
- Redei, G. P. 2008. *Encyclopedia of genetics, genomics, proteomics, and informatics*. Springer Relevance. New York. P : 439.
- Richards, M. P., S. M. Poch and J. P. McMurtry. 2006. Characterization of Turkey and Chicken Ghrelin Genes and Regulation of Ghrelin and Ghrelin Receptor mRNA levels in Broiler Chickens. *General and Comparative Endocrinology* 145 : 298-310.
- Santoso, H dan T. Sudaryani. 2015. *Panduan Praktis Pembesaran Ayam Kampung*. Penebar Swadaya. Jakarta Timur. P:9.
- Sartika, T. S., M. S. A. Suandri., Zein., dan S. Paryanti. 2006. Karakter fenotip/genetic eksternal ayam lokal Indonesia. *Laporan akhir penelitian kompetitif riset karakterisasi molekular LIPI*. Hal:16.
- Scanes, C. G., G. Brant and M. E. Deceased. 2003. *Poultry Science* 4th Edition. Prentice Hall Publisher. New Jersey. 42-57.
- Scanes, C.G and S. J. Bowen. 1984. *The Role Of Growth Hormones In The Domestic Fowl*. Department of Animal Sciences. Rutgers University. P : 42-54.

- Setiowati, T. dan D. Furqonita. 2007. *Biologi Interaktif*. Azka Press. Jakarta. Hal : 77.
- Sewoyo, S. A. 2008. *Genetika Strata I*. Gadjah Mada University Press. Yogyakarta. Hal: 67-69.
- Sirotkin, A. V., S. Pavlova., M. T. Sempere., R. Grossmann., M. R. Jimenez., J. M. C. Rodriguez and F. Venezuela. 2013. Food Restriction, Ghreline, its antagonist and Obestatin Control Expression of Ghrelin and Its Receptor in Chicken Hypothalamus and Ovary. *Comparative Biochemistry and Physiology Part A* 164 (2013) : 141-153.
- Sudarmono. 2003. *Pedoman Pemeliharaan Ayam Ras Petelur*. Kanisius. Yogyakarta. Hal : 34.
- Suguna, S., D. H. Nandal., S. Kamble., A. Bharata., and R. Kunkulol. 2014. Genomic DNA Isolation From Human Blood Samples By Non Enzymatic Salting Out Method. *International Journal of Pharmacy and Pharmaceutical Science* (6) 6 : 198-199.
- Suguna, S., D.H. Nandal, S. Kamble, A. Bharatha, and R. Kunkulol. 2014. Genomic DNA Isolation From Human Whole Blood Samples by Non Enzymatic Salting Out Method. *International Journal of Pharmacy and Pharmaceutical Sciences*, (6):198-199.
- Suwanda, T. 2006. *Beternak Ayam Bangkok*. PT. Musi Perkasa Utama. Jakarta. p : 6
- Tachibana, T., M. Tanaka., and H. Kaiya. 2011. Central injection of des-acyl chicken ghrelin does food intake in chicks. *General and Comparative Endocrinology* 171 (2011) : 183-188.
- Tamalluddin, F. 2012. *Panduan Lengkap Ayam Broiler*. Penebar Swadaya. Jakarta Timur. P:24.
- Utama, I. V. 2015. Pewarisan Karakter Fenotip dan Pertumbuhan Ayam Hibrida (*Gallus gallus domesticus*) BC₁ Hasil Persilangan Ayam ♀ F₁ dengan Ayam ♂ Pelung. *Seminar*. Fakultas Biologi UGM. Yogyakarta. P : 6.
- William, T. L. 2011. *The Complete Guide To Raising Chicken : Everything You Need To Know Explained Simply*. Atlantic Publishing Group. Florida. P: 151.
- Yunus, M., M. A. Saade., dan K. Ekasari. 2007. Analisis Usaha Peternakan Ayam Broiler. *Jurnal Agrisistem* 3 (1) : 2.
- Yuwanta, T. 2004. *Dasar Ternak Unggas*. Kanisius. Yogyakarta. Hal: 57.
- Yuwono, T. 2010. *Biologi Molekular*. Penerbit Erlangga. Jakarta. P: 36.
- Zein, M.S.A. dan S. Sulandari. 2009. Investigasi Asal Usul Ayam Indonesia Menggunakan Sekuens Hypervariable-1 D-loop DNA Mitokondria. *Jurnal Veteriner* 10(1) : 41-49.
- Zein, M.S.A. dan S. Sulandari. 2012. Keragaman Genetik dan Distribusi Haplogrup Ayam Kampung dengan Menggunakan Hipervariabel-I Daerah Kontrol DNA Mitokondria. *Journal International Veteriner* 17 (2): 120-131.



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POLIMORFISME GEN GHRELIN PENYANDI PERTUMBUHAN PADA AYAM [*Gallus gallus gallus* (Linnaeus, 1758)]
BACKCROSS GENERASI 2 HASIL PERSILANGAN BETINA PELUNG DENGAN JANTAN BACKCROSS GENERASI 1
RINA OKTAFIANTARI, Dr. Budi Setiadi Daryono, M. Agr. Sc.
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