

DAFTAR PUSTAKA

- Abbas, M. H. 2015. Ayam Kokok Balenggek: Ayam Penyanyi Sumatera Barat. Andalas University Press.
- _____, A. Arifin. S. Anwar, A. Agustar, Y. Heryandi, dan Zedril. 1997. Studi ayam Kokok Balenggek di Kecamatan Payung Sakaki, Kabupaten Solok: potensi wilayah dan genetika. Laporan penelitian. Padang: Pusat Pengkajian Peternakan dan Perikanan. Fakultas Peternakan Universitas Andalas-Dinas Peternakan Provinsi Sumatera Barat.
- Alfons, M. P. W., A. Budiyanto. dan E. M. N. Setyawan. 2022. Kajian profil hormon estradiol berdasarkan perkembangan folikel dan ovarium sapi tropis postpartus. Jurnal Sain Veteriner, 40 (1): 24-31.
- Ananda, Jaswandi, Rusfidra, H. Gusdinal, G. A. Abimanyu, L. Anggraini and F. Arlina. 2024. Sperm quality and daily fecal testosterone among six phenotypes of Kokok Balenggek rooster. International Journal of Veterinary. Sci, 13: 527-536.
- Anggorodi, R. 1979. Ilmu Makanan Ternak. PT Gramedia, Jakarta.
- Arlina, F., D. Ahmad., T. Afriani dan L. Madina. 2007. Karakteristik morfogenetik ayam Kokok Balenggek di Kecamatan Tigo Lurah Kabupaten Solok. Jurnal Peternakan Indonesia. 12(1): 12-17.
- _____, C. C. Sumantri and D. Andriano. 2020. The type and sound diversity of Kukuak Balenggek chicken (*Gallus gallus domesticus*) reared in West Sumatra, Indonesia. Biodiversitas. 21(5): 1914-1919.
- _____, 2015. Keragaman fenotipe dan DNA mikrosatelit ayam Kokok Balenggek untuk strategi awal konservasi di Sumatera Barat. Disertasi. Perpustakaan Unand.
- Bachman, S. E., J. M. Bachman dan M. M. Mashaly. 1987. Pengaruh fotoperiode terhadap ritme plasma testosteron, dihidrotestosteron dan androstenedion pada ayam jantan dewasa. Biokimia dan Fisiologi Komparatif Bagian A: Fisiologi 87A (3): 775-779.
- Badan Pusat Statistik Kota Padang. 2022. Kota Padang dalam Angka 2022. Padang: Badan Pusat Statistik.
- Bédécarrats, G. Y. 2015. Control of the reproductive axis: balancing act between stimulatory and inhibitory inputs. Poultry Science, 94(4):810-815.

- Cecil, H. C. and M. R. Bakst. 1991. Correlations of organ weights, hematocrit, and testosterone with sexual maturity of the male turkey. *Poultry science* 70(5): 1252-1257.
- Chania, C., Rusfidra, dan K. Subekti, S. 2023. Identifikasi fenotip generasi induk (G0) dan generasi pertama (G1) pola perkawinan assortative terhadap hasil produksi pada ayam Kokok Balenggek. *Jurnal Ilmiah Universitas Batanghari Jambi*, 23 (1): 387-398.
- Chenoweth, P. J., J. C. Spitzer, and F. M. Hopkins. 1992. A New Bull Breeding Soundness Evaluation Form. *Proceedings of the Society for Theriogenology Annual*.
- Corona, G., E. Mannucci, V. Ricca, F. Lotti, V. Boddi, E. Bandini, G. Balercia, G. Forti., and M. Maggi. 2009. The age-related decline of testosterone is associated with different specific symptoms and signs in patients with sexual dysfunction. *International Journal of Andrology*, 32(6): 720-728.
- Cross, H. R., B. D. Schanbacher, and J. D Crouse. 1984. Sex, age and breed related changes in bovine testosterone and intramuscular collagen. *Meat science*, 10(3): 187-195.
- Daryono, B. S., M. Mushlih, and A. B. I. Perdamaian. 2021. Crowing sound and inbreeding coefficient analysis of Pelung chicken (*Gallus gallus domesticus*). *Biodiversitas: Journal of Biological Diversity* 22(5): 2451-2457.
- Deng, Y., B. Shi, Y. Qi, Z. Luo, C. Cui, S. Che, and J. Hu. 2025. Changes and correlation between hormones, immunoglobulins, and minerals in blood serum and hair of Tianzhu White Yaks of different ages and gender. *Animals: an Open Access Journal from MDPI*, 15(5): 682.
- Driot, F. J., M. D. Reviers, and J. Williams. 1979. Plasma testosterone levels in intact and hemicastrated growing cockerels. *Journal of Endocrinology*. 81(2): 169-174.
- Duan, H., W. Ge, J. Wu, J. Lu, Z. Li, W. Dong, and X. Zhao. 2023. Melatonin regulates dihydrotestosterone formation via its membrane receptor in the epididymal epithelial cells of sheep. *Theriogenology*, 198: 273-281.
- Dube, J. Y., and R. R Tremblay. 1974. Androgen binding proteins in Cock2s tissues: properties of ear lobe protein and determination of binding sites in head appendages and other tissues. *Endocrinology*, 95(4): 1105-1112.
- Etches, R. J. and H. Kagami. 1997. Genotypic and phenotypic sex reversal. perspectives in avian endocrinology. *Journal of Endocrinology*. 39 (3): 57-67.

- Feder, H., A. Storey, D. Goodwin, C. Reboulleau, and R. Silver. 1977. Testosterone and 5alpha-dihydrotestosterone levels in peripheral plasma of male and female ring doves (*Streptopelia risoria*) during the reproductive cycle. *Biology of Reproduction*, 16(5): 666-677.
- Fumihito, A., T. Miyake, S. Sumi, M. Takeda and S. Ohno. 1994. One subspecies of the red jungle fowls (*Gallus gallus*) suffices as the matriarchic ancestor of all domestic breeds. *Proceedings of the National Academy of Sciences of the United States of America*, 91(26): 12505-12509.
- Gasc, J. M., and, W. E. Stumpf. 1981. Sexual differentiation of the urogenital tract in the chicken embryo: autoradiographic localization of sex-steroid target cells during development. *Journal of Embryology and Experimental Morphology*, 63(1): 207-223.
- Gryzinska, M., A. Strachecka, and M. Krauz. 2011. Concentration of testosterone in blood serum in roosters of the Polbar breed depending on age. *Journal of Animal Science, Biology and Bioeconomy*, 29(4): 46-50.
- Harman, S. M., E. J. Metter, J. D. Tobin, J. Pearson, and M. R. Blackman. 2001. Longitudinal effects of aging on serum total and free testosterone levels in healthy men. *The Journal of Clinical Endocrinology and Metabolism*, 86 (2): 724-731.
- Hartono, B., R. Susanto, dan A. Nugroho. 2021. Penilaian longitudinal penurunan estradiol pada sapi Simental menua: Studi tiga tahun. *Jurnal Ilmu Ternak dan Veteriner*, 26(2): 89-97.
- Hassan, M. R., S. Sultana, H. S. Choe and K. S. Ryu. 2013. Effect of monochromatic and combined light colour on performance, blood parameters, ovarian morphology and reproductive hormones in laying hens. *Italian Journal of Animal Science*, 12(3):56.
- Kasiyati. 2018. Peran cahaya bagi kehidupan unggas: respons pertumbuhan dan reproduksi. *Buletin Anatomi dan Fisiologi* 3(1):116-125.
- Lerner, L. 1981. Female feathering in sebright cocks is due to conversion of testosterone to estradiol in skin. *Science*, 213(4507): 557-559.
- Lestari, T. D. dan Ismudiono. 2014. *Ilmu Reproduksi Ternak*. Airlangga University Press, Semarang.
- Lewis, P. D. and T. R. Morris. 1998. Responses of domestic poultry to various light sources. *World's Poultry Science Journal*, 54(1): 7-25.
- Mehlhorn, J., A. Höhne, U. Baulain, L. Schrader, S. Weigend, and S. Petow. 2022. Estradiol-17 β Is influenced by age, housing system, and laying

- performance in genetically divergent laying Hens (*Gallus gallus*). *Frontiers in Physiology*, 13, 954399.
- Nataamijaya, A. G. 2005. Karakteristik penampilan pola warna bulu, kulit, sisik dan paruh ayam Pelung di Garut dan ayam Sentul di Ciamis. *Bulltein Plasma Nutfah* 10(1): 1-10.
- Nishida, T., Y. Hayashi, T. Hashiguchi and S. S. Mansjoer. 1982. Distribution and identification of jungle fowl in Indonesia: The Origin and Phylogeny of Indonesian Native Livestock Part 3(89): 85.
- Partodiharjo, S. 1987. Ilmu Reproduksi Ternak. Mutiara Sumber Widya, Jakarta.
- Prananda, H. W. A., D. N. D. I. Laksmi., dan I. G. N. B. Trilaksana. 2022. Kadar hormon estrogen pada sapi Bali saat pubertas. *Buletin Veteriner Udayana*, 14(3): 197-201.
- Purohit, V. D., P. K. Basrur., and V. G. Smith. 1978. Testosterone levels in the blood plasma of male chicken-pheasant hybrids. *Poultry Science*, 57(2): 513-517.
- Qadarsina, Q., D. Dasrul, dan S. Wahyuni. 2019. Konsentrasi hormon testosteron kerbau Simeulue dan korelasinya dengan tingkat umur dan lingkaran skrotum. *Jurnal Agripet*, 19(1): 13-21.
- Raeside, J. I., H. L. Christie., and R. L. Renaud. 1999. Androgen and estrogen metabolism in the reproductive tract and accessory sex glands of the domestic boar (*Sus scrofa*). *Biology of Reproduction*, 61(5): 1242-1248.
- Ramadhani, A. F., Muladno, dan M. Ulfah. 2019. Karakteristik suara song ayam Kokok Balenggek yang berbeda umur. Tesis. Sekolah Pascasarjana, Institut Pertanian Bogor, Bogor.
- Rukmana, R. 2003. Intensifikasi dan Pengembangan Ayam Buras. Penerbit Kanisius, Yogyakarta.
- Rusfidra. 2004. Karakterisasi sifat-sifat fenotipik sebagai strategi awal konservasi ayam kokok balenggek di Sumatera Barat. Disertasi. Bogor: Sekolah Pascasarjana Institut Pertanian Bogor, Bogor.
- _____. Y. Tumatra, M. Abbas, Y. Heryandi, and F. Arlina. 2012. Identification of bioacoustic marker of Kokok Balenggek song fowl inside a captive breeding farm in Agutalok Solok Regency, Indonesia. *Jurnal Peternakan Indonesia*, 14 (1): 303-307.
- Saartok, T., E. Dahlberg, and J. A. Gustafsson. 1984. Relative binding affinity of anabolic-androgenic steroids: comparison of the binding to the androgen

receptors in skeletal muscle and in prostate, as well as to sex hormone-binding globulin. *Endocrinology*, 114(6): 2100-2106.

Safitri E., S. Pudji dan H. Tatik. 2020. Peningkatan Reproduksi Unggas Melalui Keilmuan Pembibitan dan Pemuliabiakan. Airlangga University Press, Semarang.

Scanes, C. G. 2015. Avian Endocrine System. In *Sturkie's Avian Physiology* Academic Press, London

Scheib, D. 1983. Effects and roles of estrogens in avian gonadal differentiation. *Differentiation*, 23: 587-592.

Schober, P., C. Boer and L. A. Schwarte. 2018. Correlation coefficients: appropriate use and interpretation. *Anesthesia and Analgesia*, 126(5): 1763-1768.

Schrocksnadel, H., J. Frick, and B. P. Lisboa. 1971. Plasma testosterone level in cocks and hens. *Steroids*. 18(3): 359-365.

Tanabe, Y., T. Nakamura, H. Tanase, and O. Doi. 1981. Comparisons of plasma LH, progesterone, testosterone and estradiol concentrations in male and female chickens (*Gallus domesticus*) from 28 to 1141 days of age. *Endocrinology Journal*, 28(5): 605-613.

Tibbetts, E. A., and R. V. Carsia. 2002. Age-related changes in DHEA and its relation to adrenal function in birds. *Comparative Biochemistry and Physiology Part A*, 132(4): 733-741.

Wahyuni, S., E. Suryani, dan R. Fadilah. 2018. Performa produksi telur ayam Kokok Balenggek di Kabupaten Solok. *Jurnal Peternakan Indonesia*, 20(3): 125-132.

Wang, Y., Jin, G, Ma, M, and X. Xiang, 2019. Sex differences in serum steroid hormone levels during embryonic development in hen eggs. *Poultry Science*, 98(11): 6053-6062.

Weil, S., I. Rozenboim., A. A. Degen., A. Dawson., M. Friedländer., and A. Rosenstrauch. 1999. Fertility decline in aging roosters is related to increased testicular and plasma levels of estradiol. *General and Comparative Endocrinology*, 115(1): 23-28.

Wu, F. C. W., A. Tajar, and S. R. Pye. 2010. Identification of late-onset hypogonadism in middle-aged and elderly men. *The New England Journal of Medicine*, 363(2): 123-135.

Yanto, H. 2010. Kadar hormon testosteron ternak kerbau Lumpur (*Swamp Buffalo*) Jantan melalui analisis feses. Disertasi Doktor. Universitas Islam Negeri Sultan Syarif Kasim, Riau.

- Yuneldi, R. F., P. Astuti, H. T. Saragih, and C. M. Airin. 2021. Anadara granosa shell powder improves the metabolism, testosterone level, and sound frequency of pelung chickens. Veterinary world, 14 (6): 1564-1571.
- Zulistiana T., and A. Abinawanto. 2018. Morphometric and bioacoustic analysis Gaga chicken (*Gallus gallus domesticus*) at Bangkalan, Kamal Madura. AIP Conference Proceedings, 2023(1): 020142.

