

DAFTAR PUSTAKA

- Ainsworth, S.J., Stanley, R.L., and Evans, D.J.R. 2010. Developmental Stages of the Japanese Quail. *Journal of Anatomy*. 216: 3 – 15.
- Alasahan S., Akpinar G.C., Canogullari S., and Baylan M. 2016. The impact of eggshell colour and spot area in Japanese quails: I. eggshell temperature during incubation and hatching results. *Revista basileira de Zootecnia*. 45: 219-229.
- Alasahan S., and Copur A.G. 2016. Hatching Characteristics and Growth Performance of Eggs with Different Egg Shape. *Brazilian Journal of Poultry Science*. 18: 001-008.
- Amoah J.K., and Martin E.A. 2010. Quail (*Coturnix coturnix japonica*) layer diets based on rice bran and total or digestible amino acids. *Journal of Applied Biosciences*. 26: 1647-1652.
- Andrews, J., Smith, C., and Sinclair, H. 1997. Sites of Estrogen Receptor and Aromatase Expression in the Chicken Embryo. *General and Comparative Endocrinology*. 108:182-190.
- Anggorodi, R. 1995. *Ilmu Makanan Ternak Unggas Kemajuan Mutakhir*. Fakultas Peternakan IPB, Bogor.
- Anonim. 2004. *Potensi Burung Puyuh*. Poultry Indonesia. Februari No. 286.
- Anonim. 2016. PT. Peksi Gunarahardja *Hatchery*. Yogyakarta.
- Anugrah, I.S., Sadikin, I., and Sejati, W.K. 2009. *Kebijakan Kelembagaan Usaha Unggas Tradisional Sebagai Sumber Ekonomi Rumah Tangga Perdesaan : Kasus Peternakan Burung Puyuh Yogyakarta*. Analisis Kebijakan Pertanian. 7 (3) : 249-267.
- Arnold, A.P., Itoh, Y., and Melamed, E. 2008. A bird's-eye view of sex chromosome dosage compensation. *Annual Review of Genomics and Human Genetics*. 9: 109-127.

- Ayers, K.L., Cutting, A.D., Roeszler, K.N., Sinclair, A.H., and Smith, C.A. 2015. *DMRT1* is required for Müllerian duct formation in the chicken embryo. *Developmental Biology*. 400: 224–236.
- Bana, Q., Liua, X., Hui, W., Chen, D., Zhao, Z., and Jia, B. 2013. Comparative Analysis of Nkx2-5/GATA4/TBX5 Expression in Chicken, Quail and Chicken-quail Hybrids during the Early Stage of Cardiac Development in Embryos. *Asian-Australasian Journal of Animal Sciences*. 26 (4): 476-482.
- Behre, H.M. and Nieschlag, E. 2012. *Testosterone: Action-Deficiency-Substitution*. Springer Science & Business Media.
- Binladen, J., Gilbert, M.T.P., Bollback, J.P., Panitz, F., Bendixen, C., Nielsen, R., and Willerslev, E. 2007. The Use of Coded PCR Primers Enables High-Throughput Sequencing of Multiple Homolog Amplification Products by 454 Parallel Sequencing. *PLoS ONE* 2 (2): e197.
- Bramwell, R. K. 2003. Sexing chicks in the backyard flock. *Avian Advice*. 5: 4-5.
- Caetano, L.C., Gennaro, F.G.O., Coelho, K., Araujo, F.M., Vila, R.A., Araujo, A., de Melo Bernado, A., Marcondes, C.R., Chuva de Sousa Lopes, S.M., and Ramos, E.S. 2014. Differential expression of the *MHM* region and of sex-determining-related genes during gonadal development in chicken embryos. *Genetics and Molecular Research*. 13: 838-849.
- Caetano-Anolles, K., Seo M., Rodriguez-Zas, S., Oh, J.D., Han, J.Y., Lee, K., Park, T.S., Shin, S., Jiao, Z.J., Ghosh, M., Jeong, D.K., Cho, S., Kim, H., Song, K.D., and Lee, H.K. 2015. Comprehensive Identification of Sexual Dimorphism-Associated Differentially Expressed Genes in Two-Way Factorial Designed RNA-Seq Data on Japanese Quail (*Coturnix coturnix japonica*). *PLOS ONE*. 0139324
- Campbell, J.R.M., Kenealy, M.D., and Campbell, K.L. 2003. *Animal Science : The Biology, Care, and Production of Domestic Animal*. New York : MCGraw-Hill.
- Carreau, S., Bouraima-Lelong, H., and Delalande, C. 2011. Estrogen in male germ cells. *Spermatogenesis*. 1: 90-94.

- Chue, J. and Smith, C.A. 2011. Sex determination and sexual differentiation in the avian model. *FEBS Journal*. 278: 1027-1034
- De Melo Bernardo, A., Heeren, A.M., Van Iperen, L., Fernandes, M.G., Nannan H.E, Anjie, S., Noce, T., Ramos, E.S., and De Sousa Lopes S.M.C. 2015. Meiotic Wave Adds Extra Asymmetry to the Development of Female Chicken Gonads. *Molecular Reproduction & Development*. 82:774-786.
- Elbrecht, A., and Smith, R. 1992. AROMATASE Enzyme Activity and Sex Determination in Chicken. *Science*. 255:467-470.
- Genchev, A., Kabakchiev, M., and Mihailov, R. 2008. Potential Of Using Sexual Dimorphism In Plumage Colour For Sexing Manchurian Golden Quails. *Trakia Journal of Sciences*. 6 (2): 10-15.
- Griffiths, R., Double, M.C., Orr, K., and Dawson, RJG. 1998. A DNA test to sex most birds. *Molecular and Ecology*. 7: 1071-1076.
- Guioli, S., Nandi, S., Zhao, D, Burgess-Shannon, J., Lovell-Badge, R., and Clinton, M. 2014. Gonadal asymmetry and sex determination in birds. *Sexual Development*. 8 : 227-242.
- Hamburger, V., and Hamilton, H. 1951. A Series of Normal Stages in the Development of the Chick Embryo. *Journal of Morphology*. 8: 654-662.
- Hinshaw, W., Burmester, B., Creamer, A., Hess, C., Howes, J., and Insko, W. 1969. *Coturnix (Coturnix coturnix japonica): standards and guidelines for the breeding, care and management of laboratory animals*. National Academy of Sciences, Washington DC.
- Hong, C., Park, B., and Saint-Jeannet, J. 2007. The function of Dmrt genes in vertebrata development: it is not just about sex. *Developmental Biology*. 310: 1-9.
- Hossain, M.B., Sen, P.C., Abdullah al Noman, Md., Islam, A., Ghosh, S., Islam, S., Chakma, S., and Paul, A.K. 2015. Production Performances of Japanese Quail Parent Stock under Open Housing System. *Journal of Embryo Transfer*. 30 (2): 115-119.

- Hudson, Q.J., Smith, C.A., and Sinclair, A.H. 2005. Aromatase inhibition reduces expression of FOXL2 in the embryonic chicken ovary. *Developmental Dynamics* 233: 1052–1055.
- Huettner, A. F. 1957. *Fundamental of Comparative Embriology of the Vertebrates*. New York: The Masmillah Company.
- Hussain, J., Akram, M., Javed, K., Sahota, A.W., Mehmood, S., Ahmad, S., Usman, M. and Rehman, A., 2011. Age related changes in egg weight and quality traits in four different close bred stocks of Japanese quail. *Punjab University Journal of Zoology*. 26: 95105.
- Intarapat, S. and Satayalai, O. 2014. Microanatomical Study of Embryonic Gonadal Development in Japanese Quail (*Coturnix japonica*). *Anatomy Research International*. 9: 168614.
- Istiamuji. 2011. *Optimalisasi Produksi pada Peternakan Puyuh Bintang Tiga, Desa Situ Ilir, Kecamatan Cibungbulang, Kabupaten Bogor*. Skripsi. Institut Pertanian Bogor. Bogor.
- Jacob, J. 2015. Sexing Day-Old Chick on Small and Backyard Flocks. Article. University of Kentucky.
- Kaharuddin, D. and Kususiyah. 2006. Fertilitas dan Daya Tetas Telur Hasil Persilangan Antara Puyuh Asal Bengkulu, Padang dan Yogyakarta. Fakultas Peternakan Universitas Bengkulu. *Jurnal Ilmu Pertanian Indonesia*. 8: 1.
- Kamata, R., Takahashi, S., dan Morita, M. 2004. Gene expression of sex-determining factors and steroidogenic enzymes in the chicken embryo: influence of xenoestrogens. *General and Comparative Endocrinology*. 138: 148 – 156.
- Kasiyati, Kusumorini, N., Maheshwari, H., and Manalu, W. 2010. *Kajian Fisiologis Status Kalsium Puyuh (Coturnix Coturnix Japonica) setelah Pemberian Cahaya Monokromatik*. Buletin Anatomi dan Fisiologi Vol XVIII No I
- Kawahara-Miki R, Sano S, Nunome M., Shimmura T., Kuwayama T, Takahashi S, Kawashima T, Matsuda Y, Yoshimura T, and Kono T. 2013. Next-

generation sequencing reveals genomic features in the Japanese quail. *Genomics*. 101 : 345-353.

Kayang, B.B., Vignal, A., Inoue-Murayama, M., Miwa, M., Monvoisin, J.L., Ito, S., and Minvielle, F. 2004. A first generation micro satellite linkage map of the Japanese quail. *Animal Genetics*. 35: 195-200.

Kent, J., Wheatley, S., Andrew, E., Sinclair, A., and Koopman, P. 1996. A Male-Specific Role for *SOX9* in Vertebrate Sex Determination. *Development*. 122: 2813-2822.

Kudo, T., Yamamoto, H., Sato, S., and Sutou, S. 1996. Comparison of 5' Upstream Regions of Chicken and Quail *AROMATASE* Genes. *Journal of Reproduction and Development*. 42:101-107.

Kumar, A., Akhtar, S.M.H., Verma, S.B., Mandal, K.G., Mani Mohan, Kumar, A. and Mohan, M. 2000. Influence of age, bodyweight, egg weight, clutch size and pause on egg production in Japanese quails. *Indian Journal of Animal Sciences*. 39: 82-84.

Majama, Y. B., Mshelia, G. D., Lawal, J. R., Zakariah, M., Charles, A. C., Bwala, D. A., Gazali, Y. A., and Kachamai, W. A. 2016. Morphometrical and Histologi Study of the Female Reproductive Tract of the Japanese Quail (*Coturnix coturnix japonica*) in Jos, Plateau State, Nigeria. *Direct Research Journal of Agriculture and Food Science*. 4: 116-121.

Mattson, A., Olsson, J.A., and Brunstrom, B. 2008. Selective estrogen receptor (alpha) activation disrupts sex organ differentiation and induces expression of vitellogenin II and very low-density apolipoprotein II in Japanese quail embryos. *Society for Reproduction and Fertility*: 1470-1626.

Melamed, E., and Arnold, A.P. 2007. Regional differences in dosage compensation on the chicken Z Chromosome. *Genome Biology*. 8: R202.

Minvielle, F. 2004. The future of Japanese quail for research and production. *World's Poultry Sciences Journal*. 60: 500-507.

Mizutani, Makoto. 2005. *The Japanese Quail*. Laboratory Animal Research Station, Nippon Institute for Biological Science, Kobuchizawa, Yamanashi, Japan, 408-0041.

- Mohamed, M.A., and Abdel Hafez, M.S. 2016. The Susceptibility of Japanese Quails to the Infection with Chicken Originated NewCastle Disease Virus. *Journal of Advanced Veterinary Research*. 6: 37-43.
- Morinha, F., Carvalho, M., Ferro, A., Guedes-Pinto, H., Rodrigues, R., and Bastos, E. 2011. Molecular sexing and analysis of *CHD1-Z* and *CHD1-W* sequence variations in wild common quail (*Coturnix c. coturnix*) and domesticated Japanese quail (*Coturnix c. japonica*). *Journal of Genetics*. 90.
- Murphy, P. 2013. *The First Steps to Forming a New Organism Descriptive Embryo. Developmental Biology*. https://www.tcd.ie/Biology_Teaching_Centre/assets/pdf/by1101 [9 September 2016].
- Nakabayashi, O., Kikuchi, H., Kikuchi, T., and Mizuno, S. 1998. Diferential Expression of Genes for *AROMATASE* and Estrogen Receptor During Gonadal Development in Chicken Embryos. *Journal of Molecular Endocrinology*. 20: 193-202.
- Nataamijaya, A. G. 2004. Fenotipe Reproduksi Dua Galur Puyuh Jepang (*Coturnix coturnix japonica*) pada Dua Suhu Ruangan Berbeda. *Indonesian Journal of Animal and Veterinary Sciences*. 8(4): 220 – 226.
- Omotehara T., Smith C.A., Mantani Y., Kobayashi Y., Tatsumi A., Nagahara D., Hashimoto R., Hirano T., Umemura Y., Yokoyama T., Kitagawa H., and Hoshi N. 2014. *Spatiotemporal expression patterns of doublesex and mab-3 related transcription factor 1 in the chicken developing gonads and Müllerian ducts*. *Poultry Science*. 9 (3): 953–958.
- Oreal, E., Pieau, C., Mattei, M., Josso, N., Picard, J., Carreusebe., and Magre, S. 1999. Early Expression of AMH in Chicken Embryonic Gonad Precedes Testicular *SOX9* Expression. *Developmental Dynamics*. 212: 522-532.
- Poynter, G., Huss, D., and Lansford, R. 2009. *Japanese Quail: An Efficient Animal Model for the Production of Transgenic Avians. Emerging Model Organisms: A Laboratory Manual*. Cold Spring Harbor, NY, USA: CSHL Press.

- Roeszler, K.N., Itman, C., Sinclair, A.H., and Smith, C.A. 2012. The long non-coding RNA, *MHM*, plays a role in chicken embryonic development, including gonadogenesis. *Developmental Biology*. 366: 317–326.
- Sanders, R., Huggett, J.F., Bushell, C.A., Cowen, S., Scott, D.J., and Foy, C.A. 2011. Evaluation of Digital PCR for Absolute DNA Quantification. *Analytical Chemistry*. 83: 6474–6484.
- Sari, E. 2012. Penggunaan Gen Chromo Helicase Dna Binding (*CHD*) Sebagai Marker Penentu Jenis Kelamin Pada Aves. Skripsi. Departemen Ilmu Produksi dan Teknologi Peternakan Fakultas Peternakan Institut Pertanian Bogor.
- Saputro, Veri Tria. 2011. *Manajemen Pemeliharaan Burung Puyuh (Coturnix-coturnix japonica) di Peternakan Agri Bird Jaten Karanganyar*. Tugas Akhir. Fakultas Pertanian Universitas Sebelas Maret Surakarta.
- Saraswati, T.R. and Tana, S. 2015. Development of Japanese Quail (*Coturnix Coturnix Japonica*) Embryo. *International Journal of Scientific and Engineering*. 8: 38-41.
- Scholz, B., Alm, H., Mattsson, A., Nilsson, A., Kultima, A., Savitski, M.M., Fälth, M., Sköld, K., Brunström, B., Per, E., and Dencker, L. 2010. Neuropeptidomic analysis of the embryonic Japanese quail diencephalon. *BMC Developmental Biology*. 10: 30.
- Sebastian, S. and Bulun, S.E. 2001. A highly complex organization of the regulatory region of the human CYP19 (*AROMATASE*) gene revealed by the Human Genome Project. *The Journal of Clinical Endocrinology & Metabolism*. 86: 4600–4602.
- Setiawan, Duta. 2006. *Performa Produksi Burung Puyuh (Coturnix coturnix japonica) pada Perbandingan Jantan dan Betina yang Berbeda*. Skripsi. Institut Pertanian Bogor. Bogor.
- Shit N., Sastry K.V.H., Singh R.P., Pandey N.K., and Mohan J. 2014. Sexual maturation, serum steroid concentrations, and mRNA expression of IGF-1, luteinizing and progesterone hormone receptors and survivin gene in Japanese quail hens. *Theriogenology*. 81: 662-668.

- Sinaga, Josua Roni. 2009. *Pengujian Suplementasi Mineral Esensial (Ca, P, Na dan Cl) dalam Ransum terhadap Fertilitas, Daya Tetas dan Mortalitas pada Telur Burung Puyuh (Coturnix-coturnix japonica)*. Skripsi. Universitas Sumatera Utara. Medan.
- Smith, C., Smith, M., dan Sinclair, A. 1999. Gene Expression during Gonadogenesis in Chicken Embryo. *Gene*. 234: 395-402.
- Smith, Tom W. 2004. *Avian Embryo*. Mississippi State University.
- Smith, C., and Sinclair, W. 2004. Sex Determination: Insights from the Chicken. *Bioessay*. 26: 120-132.
- Smith C.A., McClive P.J., Hudson Q., and Sinclair A.H. 2005. Male-specific cell migration into the developing gonad is a conserved process involving PDGF signaling. *Developmental Biology*. 284: 337-350.
- Stiglec, R., Ezaz, T. and Graves, J.A. 2007. A new evolution of avian sex chromosomes. *Cytogenetic and Genome Research*. 117: 103-109.
- Takada S., Ota J., Kansaku N., Yamashita H., Izumi T., Ishikawa M., Wada T., Kaneda R., Choi Y.L., Koinuma K., Fujiwara S., Aoki H., Kisanuki H., Yamashita Y., and Mano H. 2006. Nucleotide sequence and embryonic expression of quail and duck *SOX9* genes. *General and Comparative Endocrinology*. 145: 208–213.
- Teranishi M., Shimada Y., Hori T., Nakabayashi O., Kikuchi T., Macleod T., Pym R., Sheldon B., Solovei I., Macgregor H., and Mizuno S. 2001. Transcripts of the *MHM* region on the chicken Z chromosome accumulate as non-coding RNA in the nucleus of female cells adjacent to the *DMRT1* locus. *Chromosome Research*. 9: 147-165.
- The Integrated Taxonomic System. 2009. *Coturnix japonica* bankiva. http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=176013 (25 Juli 2015).
- Vali, N. 2008. The Japanese quail : a review. *International Journal of Poultry Science*. 7: 925 – 931.

- Vali, N. 2009. Growth, Feed Consumption and Carcass Composition of *Coturnix japonica*, *Coturnix ypsilophorus* and their Reciprocal Crosses. *Asian Journal of Poultry Science*. 3: 132-137.
- Vali N., and Doosti, A. 2011. Molecular Studi for the sex identification in Japanese Quails (*Coturnix Japonica*). *African Journal of Biotechnology*. 10: 80.
- W jcik E., Andraszek K., Smalec E., Knaga S., and Witkowski A. 2014. Identification of chromosome instability in Japanese quail (*Coturnix japonica*). *British Poultry Science*. 55 (4): 435-441.
- Zhao D, McBride D, Nandi S, McQueen HA, McGrew MJ, Hocking PM, Lewis PD, Sang HM & Clinton M (2010) Somatic sex identity is cell autonomous in the chicken. *Nature* 464, 237–242.