

DAFTAR PUSTAKA

- Akmal, M., Fadhilla Taqwa, S., Masyitha, D., Rahmi, E., & Nur Salim, M. (2022). Study Of Histology, Histomorphometry, and Glychogenes Distribution of Chest and Thigh Muscle in Chicken (*Gallus Gallus Domesticus*) Pre and Post hatch Period. *Jurnal Ilmiah Mahasiswa Veteriner (JIMVET) Fakultas Kedokteran Hewan Universitas Syiah Kuala*, 6(3).
- Albab, L. U., Claudya, T. I., Oktafianti, R., Salsabila, N., Putri, R. D., & Saragih, H. T. S. S. G. (2022). Growth Performance, Morphometric of the Small Intestine, Lymphoid Organ, and Ovary of Laying Hens Supplemented with Dates (*Phoenix dactylifera* L.) Extract in Drinking Water. *Veterinary World*, 15(2), 350–359.
- Amrullah, I. K. (2004). *Nutrisi Ayam Broiler*. Lembaga Satu Gunung Budi.
- Anggitasari S., Osfar S., & Irfan H. D. (2016). Pengaruh Beberapa Jenis Pakan Komersial Terhadap Kinerja Produksi Kuantitatif dan Kualitatif Ayam Pedaging. *Buletin Peternakan*, 40(3), 187–196.
- Ayubi, N., Purwanto, B., & Rejeki, P. S. (2020). Efek Suplementasi Omega 3 dan Latihan Fisik Terhadap Respon Inflamasi. *JOSSAE : Journal of Sport Science and Education*, 5(2), 116–123.
- Berri, C., Le Bihan-Duval, E., Debut, M., Santé-Lhoutellier, V., Baéza, E., Gigaud, V., Jégo, Y., & Duclos, M. J. (2007). Consequence of Muscle Hypertrophy on Characteristics of Pectoralis Major Muscle and Breast Meat Quality of Broiler Chickens. *J. Anim. Sci*, 8(5), 2001–2005.
- Borsa, P., Irma S. A., Martin L., & Patrick B. (2012). Population Genetic Structure of Blue-Spotted Maskray *Neotrygon kuhlii* and Two Other Indo-West Pacific Stingray Species (*Myliobatiformes: Dasyatidae*), Inferred From Size-Polymorphic Intron Markers. *Journal of Experimental Marine Biology and Ecology*, 438, 32–40.
- Cabrol, M. B., Martins, J. C., Malhão, L. P., Alves, S. P., Bessa, R. J., Almeida, A. M., & Lordelo, M. (2022). Partial Replacement of Soybean Meal with *Chlorella vulgaris* in Broiler Diets Influences Performance and Improves Breast Meat Quality and Fatty Acid Composition. *Poultry Science*, 101(8).
- Cahyono, E. D., Atmomarsono, U., & Suprijatna, D. E. (2012). Pengaruh Penggunaan Tepung Jahe (*Zingiber officinale*) dalam Ransum Terhadap Saluran Pencernaan dan Hati pada Ayam Kampung Umur 12 Minggu (Effects of Ginger Powder Usage in Ration on Digestive Tractus and Liver of Native Chicken 12 Weeks of Age). *Animal Agricultural Journal*, 1(1), 65–74.

- Calder, P. C. (2017). Omega-3 Fatty Acids and Inflammatory Processes: from Molecules to Man. *Biochem Soc Trans*, 45(5), 1105–1115.
- Christ B., & Brand-Saberi B. (2002). Limb Muscle Development. *International Journal of Developmental Biology*, 46, 905–914.
- Das C., Roy B. C., Oshima I., Miyachi H., Nishimura S., Iwamoto H., & Tabata S. (2010). Collagen Content and Architecture of the Pectoralis Muscle in Male Chicks and Broilers Reared Under Various Nutritional Conditions. *British Poultry Science*, 81(2), 252–263.
- Diana, F. M. (2012). Omega 6. *Jurnal Kesehatan Masyarakat*, 7(1).
- Dikeman, M., & Devine C. (2014). *Encyclopedia of Meat Science* (2nd Edition). Academic Press.
- Durán, A. M., Salto, L. M., Câmara, J., Basu, A., Paquien, I., Beeson, W. L., Firek, A., Cordero-Macintyre, Z., & De León, M. (2019). Effects of Omega-3 Polyunsaturated Fatty-acid Supplementation on Neuropathic Pain Symptoms and Sphingosine Levels in Mexican-Americans With Type 2 Diabetes. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, 19(12), 109–120.
- Efendi, S. C., Dwi Anggo, A., & Wijayanti, I. (2020). Pengaruh Suhu Ekstraksi pada Metode Dry Rendering terhadap Kualitas Minyak Kasar Hati Ikan Manyung (*Arius thalassinus*). *Jurnal Ilmu Dan Teknologi Perikanan*, 2(1).
- Faber, R. M., Hall, J. K., Chamberlain, J. S., & Banks, G. B. (2014). Myofiber branching rather than myofiber hyperplasia contributes to muscle hypertrophy in mdx mice. *Skeletal Muscle*, 4(1), 4–10.
- Fahman, S. I., & Rugayah, N. (2023). Kualitas Fisik Daging Ayam Broiler yang Diberi Ekstrak Sabut Kelapa dalam Ransum. *Jurnal Ilmiah AgriSains*, 24(2), 114–120.
- Fenton T. R., & Huang T. (2016). Systematic Review of the Association Between Dietary Acid Load, Alkaline Water and Cancer. *BMJ Open*, 6(6).
- Fernandez, A. M., Dupont, J., Farrar, R. P., Lee, S., Stannard, B., & Le Roith, D. (2002). Muscle Specific Inactivation of IGF-1 Receptor Induces Compensatory Hyperplasia in Skeletal Muscle. *J. Clin. Investig*, 109(3), 347–355.
- Fuller, M. F. (2004). *The Encyclopedia of Farm Animal Nutrition*. CABI Publishing.
- Gammone, M. A., Riccioni, G., Parrinello, G., & D’orazio, N. (2019). Omega-3 Polyunsaturated Fatty Acids: Benefits and Endpoints in Sport. *Nutrients*, 11(1), 46.

- Gandri Haryono, M., Firdaus, M., & Gaffar, S. (2020). Species Diversity and Conservation Status of Ray Fish (Elamobranchii) In Tarakan Water. *Jurnal Harpodon Borneo*, 13(1).
- Glass, D. J. (2005). Skeletal Muscle Hypertrophy and Atrophy Signaling Pathways. *The International Journal of Biochemistry & Cell Biology*, 37(10), 1974–1984.
- Halevy O., Geyra A., Barak M., Uni Z., & Sklan D. (2000). Early Posthatch Starvation Decreases Satellite Cell Proliferation and Skeletal Muscle Growth in Chicks. *Journal of NutriLife*, 130(4), 858–864.
- Hedrich, H. J. (2012). *The Laboratory Mouse* (2nd Edition). Academic Press.
- Hegazy, R. A., & Hegazy, A. A. (2015). Hegazy' Simplified Method of Tissue Processing (Consuming Less Time and Chemicals) Hegazy' Simplified Method of Tissue Processing (Consuming Time and Chemicals). *Original Article Annals of International Medical and Dental Research*, 1(1).
- Heldini A. P. (2015). Pengaruh Penambahan Minyak Ikan Tuna dalam Ransum Basal Terhadap Performan Ayam Brioler. *Journal of Rural and Development*, 6(1).
- Hutt, F. B. (2003). *Genetics of the Fowl: The Classic Guide to Poultry Breeding and Chicken Genetics*. Norton Creek Press.
- ITIS. (2023, October 18). *ITIS Online Database*.
- Joko Riyanto. (2006). Tampilan Kadar Asam Lemak Omega-3 dan Kolesterol Telur Ayam Konsumsi yang diberi Ransum Mengandung Limbah Minyak Ikan Lemuru (*Sardinella longiceps*). *Caraka Tani*, 21(1), 9–12.
- Kalangi, S. J. R. B. (2014). Perubahan Otot Rangka Pada Olahraga. *Jurnal Biomedik (JBM)*, 6(3), 172–178.
- Khaeruddin, Arismunandar, & Nurda. (2020). Karakteristik Semen Ayam Kampung yang Diberi Minyak Hati Ikan Kod Sebagai Feed Supplement. *Musamus Journal of Livestock Science*, 3(1), 15–24.
- Konieczka, P., Czauderna, M., & Smulikowska, S. (2017). The Enrichment of Chicken Meat with Omega-3 Fatty Acids by Dietary Fish Oil or its Mixture with Rapeseed or Flaxseed—Effect of Feeding Duration: Dietary Fish Oil, Flaxseed, and Rapeseed and n-3 Enriched Broiler Meat. *Animal Feed Science and Technology*, 223, 42–52.
- Laron, Z. (2001). Insulin-Like Growth Factor 1 (IGF-1): a Growth Hormone. *Molecular Pathology*, 54(5), 311–315.
- Listrat, A., Lebre, B., Louveau, I., Astruc, T., Bonnet, M., Lefaucheur, L., Picard, B., & Bugeon, J. (2016). How Muscle Structure and Composition Influence

- Meat and Flesh Quality. In *Scientific World Journal* (Vol. 3, Issue 1). Hindawi Limited.
- Lonergan, S. M., D. G. Topel, & D. N. Marple. (2019). *The Science of Animal Growth and Meat Technology* (2nd Edition). Academic Press.
- Madri. (2017). Kontraksi Otot Skelet. *Jurnal Menssana*, 2(2), 2527–2645.
- Malvin, T., & Montesqrit, D. (2017). Pengaruh Pemberian Mikro kapsul Minyak Ikan Terhadap Lemak Abdomen dan Kadar Kolesterol Daging Broiler. *Jurnal Penelitian Lumbung*, 16(2).
- Marasabessy, I. (2021). Identification of Types and Conservation Status Stingray Traded Out of Sorong City at the Resource Management Loka Sorong Coast and Sea. *Jurnal Riset Perikanan Dan Kelautan*, 3, 290–302.
- Mawaddah, M., Setiawan, H., & Saragih, H. T. S. S. G. (2020). Aktivitas Ekstrak Etanolik Daun Jambu Mete Terhadap Otot Pectoralis Thoracicus Ayam Jawa Super. *Indonesian Journal of Animal Science*, 22(1), 80.
- Melantika Dahrin, Marnix L.D. Langoy, & Lalu Wahyudi. (2019). Karakteristik Gaya Aerodinamika pada Burung Merpati (*Columba livia*). *Pharmacon*, 8(3), 679–685.
- Mescher, A. L. (2016). *Histologi Dasar Junqueira Teks & Atlas : Edisi 14*. Buku Kedokteran EGC.
- Morrison, M. L., A. D. Rodewald, G. Voelker, M. R. Colon, & J. F. Prather. (2018). *Ornithology: Foundation, Analysis, and Application*. Johns Hopkins University Press.
- Mullik, M. L., Henuk, Y. L., & Dato, T. O. D. (2015). Inklusi Tepung Krokot (*Portulaca oleraceae* L) Dalam Ransum Ayam Broiler untuk Produksi Daging Rendah Kolesterol dan Kaya Anti-Oksidan. *Laporan Penelitian Program Studi Ilmu Peternakan Program Pasca Sarjana Universitas Nusa Cendana Kupang*.
- Murwani, R. (2010). *Ayam Pedaging Modern*. CV Widya Karya.
- Ngitung, R., Nurhayati, & Arsad Bahri. (2020). Daging Ayam Broiler Sehat dengan Pengaturan Ransum Healthy Broiler Chicken with Rations Settings. *Sainsmat*, 9(1), 29–38.
- Noys, R. K., J. A. Krueger, & K. M. Hill. (2017). *Biology: Organisms and Adaptations*. Cengage Learning.
- Nurdiana, H. (2011). Metabolisme Asam Lemak Otot Jantung. *Saintika Medika: Jurnal Bidang Kedokteran Dan Kesehatan*, 7(2), 1–102.

- Petracci, M., Mudalal, S., Soglia, F., & Cavani, C. (2015). Meat Quality in Fast-Growing Broiler Chickens. *World's Poultry Science Journal*, 71(2), 363–374.
- Philippou, A., Halapas, A., Maridaki, M., & Koutsilieris, M. (2007). Type I Insulin-Like Growth Factor Receptor Signaling in Skeletal Muscle Regeneration and Hypertrophy. *J Musculoskelet Neuronal Interact*, 7(3), 208–218.
- PIC. (2016). *Practical Guidelines for On-Farm Euthanasia of Poultry* (2nd ed.). Puslinch.
- Prakash, A., Saxena, V. K., & Singh, M. K. (2020). Genetic Analysis of Residual Feed Intake, Feed Conversion Ratio and Related Growth Parameters in Broiler Chicken: A Review. *World's Poultry Science Journal*, 76(2), 304–317.
- Purwoko, T. (2005). Kandungan ATP Mitokondria pada Otot-Otot Pektoral Ayam dan Merpati. *Biosmart*, 7(1), 6–8.
- Putri, R. D. (2023). Perbedaan Hasil Pewarnaan Hematoxylin Eosin (HE) pada Histologi Kolon Mencit (*Mus musculus*) Berdasarkan Ketebalan Pemotongan Mikrotom 3, 6 dan 9 μm . *Eko N.S.*, 7(2), 31–38.
- Riansyah, A., Agus, S., & Rodiana, N. (2014). Pengaruh Perbedaan Suhu dan Waktu Pengeringan Terhadap Karakteristik Ikan Asin Sepat Siam (*Trichogaster pectoralis*) dengan Menggunakan Oven. *Jurnal FishTech*, 2(1).
- Ridhana, F. (2018). Tinjauan Histologi Otot Dada (*Musculus Pectoralis*) Ayam Lokal Pedaging Unggul (ALPU) dengan Pemberian Pakan Fermentasi, Probiotik dan Multi Enzim Pencernaan. *BIONatural*, 5(1).
- Rohmawati, D., Djunaidi, I., & Widodo, E. (2015). NILAI NUTRISI TEPUNG KULIT ARI KEDELAI DENGAN LEVEL INOKULUM RAGI TAPE DAN WAKTU INKUBASI BERBEDA. *Journal of Tropical Animal Production*, 16(1), 30–33.
- Sánchez-Camargo, Andrea P., M. Ângela, A. Meireles, Ana L. K. F., Erika Saito, & Fernando A. C. (2012). Extraction of Omega-3 Fatty Acids and Astaxanthin from Brazilian Redspotted Shrimp Waste Using Supercritical CO₂ + Ethanol Mixtures. *The Journal of Supercritical Fluids*, 71–77.
- Saragih, H., & Daryono, B. S. (2012). Effect of High-Protein Diet on Body Weight and Pectoralis thoracicus Muscle Performance on Pelung and Broiler Chicken (*Gallus gallus domesticus*). *Animal Production*, 14(3), 199–204.
- Saragih, H. T., Fauziah, I. N., Saputri, D. A., & Chasani, A. R. (2024). Dietary macroalgae *Chaetomorpha linum* supplementation improves morphology of small intestine and pectoral muscle, growth performance, and meat quality of broilers. *Veterinary World*, 470–479.

- Saragih, H. T. S. S. G., Utomo, R. T., Perdamaian, A. B. I., Puspita, U. E., Lesmana, I., Arijuddin, H., Erwanto, Y., & Daryono, B. S. (2016). The Effect of Early Posthatch Local Feed in Pectoralis Muscle of Jawa Super Chicks (*Gallus gallus domesticus*). *AIP Conference Proceedings*, 1755, 140003.
- Sartika, R. A. D. (2008). Pengaruh Asam Lemak Jenuh, Tidak Jenuh dan Asam Lemak Trans terhadap Kesehatan. *KESMAS: Jurnal Kesehatan Masyarakat Nasional*, 2(4), 154–160.
- Shin, H. S., Choi, D. S., Na, J. B., Choi, H. Y., Kim, J. E., Choi, H. C., Won, J. H., Lee, S. J., & Park, M. J. (2020). Low Pectoralis Muscle Index, Cavitory Nodule or Mass and Segmental to Lobar Consolidation as Predictors of Primary Multidrug-Resistant Tuberculosis: A Comparison with Primary Drug Sensitive Tuberculosis. *PLoS ONE*, 15(10).
- Smith, G. I., Atherton, P., Reeds, D. N., Mohammed, B. S., Rankin, D., Rennie, M. J., & Mittendorfer, B. (2011). Dietary Omega-3 Fatty Acid Supplementation Increases the Rate of Muscle Protein Synthesis in Older Adults: A Randomized Controlled Trial. *American Journal of Clinical Nutrition*, 93(2), 402–412.
- Subakir, F. N. M., Ishak, N. I., Samah, N. A., Aziz, K. A. A., & Zaharudin, N. . (2021). The Effects of Seaweed-Based Pellet Binders on Growth Performance, Feed Efficiency and Carcass Characteristics in Broilers. *Animal Feed Science and Technology*, 272.
- Sunny Wangko. (2014). Jaringan Otot Rangka Sistem Membran dan Struktur Halus Unit Kontraktil. *Jurnal Biomedik*, 6(3), 27–32.
- Suparyanto, A., Martojo, H., Hardjosworo, P. S., & Prasetyo, L. H. (2004). Kurva Pertumbuhan Morfologi Itik Betina Hasil Silang Antara Pekin dengan Mojosari Putih. *Jurnal Ilmu Ternak Dan Veteriner*, 9(2), 87–97.
- Surya, M., Arum, C., Suprijatna, E., Teysar, D., & Sarjana, A. (2020). Pengaruh Pemberian Aditif Pakan Berupa Kombinasi Kulit Singkong (*Manihot esculenta* L.) dengan Bakteri Asam Laktat (*Lactobacillus* sp.) terhadap Kualitas Eksterior Telur Puyuh Awal Produksi. *Bioma*, 9(1), 102–116.
- Suvarna, S. K., C. Layton, & J. D. Bancroft. (2019). *Bancroft's Theory and Practice of Histological Techniques* (8th ed.). Elsevier.
- Suwiti, N. K. (2008). Identifikasi Daging Sapi Bali dengan Metode Histologis. *Majalah Ilmiah Peternakan*, 11(1), 31–35.
- Tajbakhsh, S. (2009). Skeletal Muscle Stem Cells in Developmental Versus Regenerative Myogenesis. *Journal of Internal Medicine*, 266(4), 372–389.

- Takou, P. D., Jeffrie, F. M., Hanneke, P., Cyska, L., Henky, M., & Adnan, S. W. (2021). Kelayakan Tepung Darah dalam Pembuatan Pakan untuk Pertumbuhan Ikan Nila (*reochromis niloticus*). *Budidaya Perairan*, 9(2), 16–24.
- Tamalluddin, F. (2014). *Panduan Lengkap Ayam Broiler*. Penebar Swadaya.
- Toni, M. (2013). *Pengaruh Pemberian Mikrokapsul Minyak Ikan Dalam Ransum Terhadap Performa Ayam Broiler*. Universitas Andalas.
- Vanany, I., Maftuhah, D. I., Jaelani, L. M., Hajar, G., & Utami, N. M. C. (2019). Modeling of Chicken Production for Food Security in Indonesia. *IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)*, 627–631.
- Wang, J. X., & K. M. Peng. (2008). Developmental Morphology of the Small Intestine of African Ostrich Chicks. *Poultry Science*, 87, 2629–2635.
- Widodo, Eko., Natsir, M. H., Sjojfan., & Osfar. (2019). *Pakan Aditif Unggas Pengganti Antibiotik*. UB Press.
- Wijayanti, F., Abrari, M. P., & Fitriana, N. (2018). Keanekaragaman Spesies dan Status Konservasi Ikan Pari di Tempat Pelelangan Ikan Muara Angke Jakarta Utara. *Jurnal Biodjati*, 3(1), 23–35.
- Wilt, F. H. (2021). *Growth*. Encyclopedia Britannica.
- Wu, G. (2010). Functional Amino Acids in Growth, Reproduction, and Health. *Advances in Nutrition*, 1(1), 31–37.
- Yalcin, S., Aksit, M., Ozkan, S., Hassanzadeh, M., Bilgen, G., Helva, I. B., & Yilmaz, M. C. (2022). Effect of Temperature Manipulation During Incubation on Body Weight, Plasma Parameters, Muscle Histology, and Expression of 64 Myogenic Genes in Breast Muscle of Embryos and Broiler Chickens from Two Commercial Strains. *British Poultry Science*, 63(1), 21–30.