

DAFTAR PUSTAKA

- Adzitey, F. 2011. Mini Review: Effect of Pre-Slaughter Animal Handling on Carcass and Meat Quality. *Int Food Research Journal.* 18(2): 485-491.
- Alscher, R.G., Erturk N and Heath L.S. 2002. Role of Superoxide Dismutase (SODs) in Controlling Oxidative Stress in Plants. *Journal of Experimental Botany.* 53(372): 1331-1341.
- Astuti, S. 2008. Isoflavon Kedelai dan Potensinya sebagai Penangkap Radikal Bebas. *Jurnal Teknologi Industri dan Hasil Pertanian.* 13(2): 126-136.
- Ayala, A., Munoz M.F. and Arguelles S. 2014. Lipid Peroxidation : Production, Metabolism and Signaling Mechanisms of Malondialdehyde and 4-Hydroxy-2-Nonenal. *Oxidative Medicine and Cellular Longevity.* 2014:1-31.
- Bender, D.A. 2009. Overview of Metabolism & the Provision of Metabolic Fuels. In: Murray, R.K., Bender D.A., Botham K.M. Kennelly P.J., Rodwell V.W and Weil P.A. *Harper's Illustrated Biochemistry.* 28th Edition. Mc Graw Hill Medical. p. 137.
- Bergeaud-Blackler, F. 2007. New Challenges for Islamic Ritual Slaughtering: A European Perspective (Forthcoming). *Journal of Ethnic and Migration Studies.* 33(6): 965-980.
- Bollen, P.J.A., Hansen A.K and Alstrup A.K.O. 2010. *The Laboratory Swine* 2nd Edition. CRC Press. New York. 1-18.
- Botham, K.M. and Mayes P.A. 2009. Biologic Oxidation. In: Murray, R.K., Bender D.A., Botham K.M. Kennelly P.J., Rodwell V.W and Weil P.A. *Harper's Illustrated Biochemistry.* 28th Edition. Mc Graw Hill Medical. 101-102.
- Bourguet, C., Deiss V., Tannugi C.C and Terlouw E.M.C. 2011. Behavioural and Physiological Reactions of Cattle in A Commercial Abattoir: Relationships With Organisational Aspects Of The Abattoir And Animal Characteristics. *Meat Science.* 88(1): 158–168.
- Carrol, T.B., Aron D.C., Findling J.W., and Tyrell J.B. 2017. Glucocorticoids and Adrenal Androgens. In: Greenspan, F.S and D.G. Gardner. *Basic and Clinical Endocrinology* 10th ed. Lange Medical Book. USA. 299-308.
- Casado, A., Encarnacion Lopez-Fernandez M., Concepcion Casado M and de La Torre R., 2008. Lipid peroxidation and antioxidant enzyme activities in vascular and Alzheimer dementia. *Neurochem. Res.* 33: 450–458.

- Case, A.J. 2017. On The Origin of Superoxide Dismutase: An Evolutionary Perspective of Superoxide-Mediated Redox Signaling. *Molecular Diversity Preservation International. Journal of Antioxidant.* 6(4): 1-21.
- Chang, Y.T., Chang W.N., Tsai N.W., Huang C.C., Kung C.T., Su Y.J., Lin W.C., Cheng B.C., Su C.M., Ciang Y.F. and Lu C.H. 2014. The Roles of Biomarker of Oxidative Stress and Antioxidant in Alzheimer's Disease: A Systematic Review. *BioMed Research International.* 2014: 1-14.
- Channon, H.A., Payne A.M. and Warner R.D. 2000. Halothane Genotype, Pre-Slaughter Handling and Stunning Methods All Influence Pork Quality. *Meat Science.* 56 : 291–299.
- Chevion, S., Moran D.S., Heled Y., Shani Y., Regrev G., Abbou B., Berenshtein E., Stadtman E.R. and Epstein Y. 2003. Plasma Antioxidant Status and Cell Injury After Severe Physical Exercise. *Proc Nati Acad Sci.* 100(9): 5119-5123.
- Chulayo, A.Y, Tada O. and Muchenje V. 2012. Research on Preslaughter Stress and Meat Quality: A Review of Challenges Faced Under Practical Conditions. *Applied Animal Husbandry & Rural Development.* 5:1-6.
- Cockrem, J.F. 2013. Individual Variation in Glucocorticoid Stress Responses in Animals. *General and Comparative Endocrinology.* 181 : 45–58.
- Dannar, N.N. 2015. Waktu Henti Darah Memancar pada Penyembelihan Sapi dengan Pemingsanan dan Tanpa Pemingsanan [Skripsi]. Fakultas Kedokteran Hewan. Institut Pertanian Bogor. Hal. 3.
- Del Rio, D., Steward A.J. and Pellegrini N. 2005. A Review of Recent Studies on Malondialdehyde as Toxic Molecule and Biological Marker of Oxidative Stress. *Journal of Nutrition, Metabolism and Cardiovascular Disease.* 15(4): 316-328.
- Dewi, G.A.M.K. 2017. Materi Ilmu Ternak Babi. Fakultas Peternakan Universitas Udayana. Denpasar. 1-3
- Dianti, R.R., Rusdi dan Evriyani D. 2016. Kadar Malondialdehide dan Aktivitas Enzim Superoxide Dismutase pada Hipertensi dan Normotensi. *Jurnal Bioma.* 12(1): 50-53.
- Droge, W. 2002. Free Radicals in The Physiological Control of Cell Function. *Physiological Review.* 82(1): 47-95.

- Dullaers, M., Li D., Xue Y., Ni L., Gayet I., Morita R., Ueno H., Palucka K.A., Banchereau J. and Oh S. 2009. AT cell-dependent mechanism for the induction of human mucosal homing immunoglobulin A-secreting plasmablasts. *Immunity*, 30(1): 120-129.
- [EFSA] European Food Safety Authority. 2006. The Welfare Aspects Of The Main Systems Of Stunning And Killing Applied To Commercially Farmed Deer, Goats, Rabbits, Ostriches, Ducks, Geese, And Quail. *EFSA J.* 326:1-18.
- Evan, J.L, Betty A.M. dan Ira D.G. 2005. The Molecular Basis for Oxidative Stress-Induced Insulin Resistance. *Antioxidants and Redox Signaling*. 7(7): 1040-1052.
- Fakhruddin, S., Alanazi W. and Jackson K.E. 2017. Diabetes-Induced Reactive Oxygen Species: Mechanism of Their Generation and Role in Renal Injury. *Journal of Diabetes Research*. 2017 : 1-31.
- Farouk, M., Al-Mazeedi H., Sabow A., Bekhit A., Adeyemi K., Sazili A. and Ghani A. 2014. Halal and Kosher Slaughter Methods and Meat Quality: A Review. *Meat Science* 98(3): 505–519.
- Faucitano, L. and Schaefer A.L. 2008. Welfare of Pig from Birth to Slaughter. Wageningen Academic Publishers. Netherland. p.71.
- Fitrianti, A.T. 2015. Analisis Hormon Kortisol dan Penerapan Aspek Kesejahteraan Hewan pada Sapi yang Dipingsankan dan Tidak Dipingsankan Sebelum Penyembelihan [Thesis]. Sekolah Pascasarjana. Institut Pertanian Bogor. Hal. 6.
- Fukai, T. and Ushio-Fukai M. 2011. Superoxide Dismutases: Role in Redox Signaling, Vascular Function, and Diseases. *Antioxidants and Redox Signaling*. 15(6) : 1583-1606.
- Goba, M.A. 2013. Penanganan dan Distribusi Karkas dan Non Karkas dari Tempat Pemotongan Babi Jeletreng Gunung Sindur Bogor [Skripsi]. Fakultas Peternakan. Institut Pertanian Bogor. Hal. 10-11.
- Grandin, T. 2007. Handling and Welfare of Livestock in Slaughter Plants. In: Grandin T. *Livestock Handling and Transport*. CABI. Colorado. United States. 329-353.
- Gregory, N.G. 2005. Recent Concerns about Stunning and Slaughter – A Review. *Meat Science*. 70: 481–491.

- Gregory, N.G. 2007. Chapter 12: Meat Quality. In: ‘Animal Welfare And Meat Production’. 2nd edn. CABI Publishing. Wallingford. United Kingdom. 213–226.
- Gunawan, B. dan Sumadiono. 2007. Stres dan Sistem Imun Tubuh: Suatu Pendekatan Psikoneuroimunologi. Cermin Dunia Kedokteran. 154:13-16.
- Guyton, A.C and Hall J.E. 2016. Textbook of Medical Physiology. Ed. 13. Elsevier. 780-862.
- Halliwell, B. 2006. Reactive Spesies and Antioxidants: Redox Biology is A Fudamental Theme Of Aerobic Life. Plant Physiol. 141:312-322.
- Halliwell, B. dan Gutteridge J.M.C. 2015. Free Radicals in Biology and Medicine 5th Edition. Oxford University Press. United Kingdom. 77-79.
- Han, Y.H., Xu Z.R., Wang Y.Z. and Huang Q.C. 2006. Effect of Cadmium on Lipid Peroxidation and Activities of Antioxidant Enzymes in Growing Pigs. Biological Trace Element Research. 110 : 251-263.
- Hindle, V.A., Lamboij E., Reimert G.M., Workel R.D. and Gerritzen M.A. 2010. Animal Welfare Concerns During The Use Of The Water Bath For Stunning Broiler, Hens, Ducks. Poultry Science Journal. 89(3): 401-412.
- [HSA] Humane Slaughter Association. 2013. Captive-Bolt Stunning in Livestock. <https://www.hsa.org.uk>. [17 April 2019]
- [HSA] Humane Slaughter Association. 2016. Electrical Stunning of Red Meat Animal. <https://www.hsa.org.uk>. [13 April 2019]
- Hu, R., Y. He, M.A. Arowolo, S. Wu and J.He. 2019. Polyphenols as Potential Attenuator of Heat Stress in Poultry Production. Journal Antioxidants. 8(67) : 3-11.
- Jetawattana, S. 2005. Malondialdehyde (MDA), A Lipid Oxidation Product. Free Radicals in Biology and Medicine The Uniiversity of Iowa. 72(222): 1-11.
- Kevin, C., Kregel, Hannah J. and Zhang. 2006. An Integrated View of Oxidative Stress in Aging: Basic Mechanisms, Functional Effects, And Pathological Considerations. Am J Physiol Regul Integr Comp Physiol. 292: 18-36.
- Kim, G.D, Lee H.S, Jung E.Y, Lim H.J, Seo H.W, Lee Y.H, Jang S.H, Baek S.B, Joo S.T, and Yang H.S. 2013. The Effects of CO₂ Gas Stunning on Meat Quality of Cattle Compared with Captive Bolt Stunning. Livestock Science 157(1): 312–316.

- Kusriningrum, R.S. 2010. Perancangan Percobaan. Airlangga University Press. Surabaya. 213-215.
- Lisdiana. 2012. Regulasi Kortisol pada Kondisi Stres dan Addiction. Biosaintifika. 4(1): 18-26.
- Llonch, P., Rodríguez P., Casal N., Carreras R., Munoz I., Dalmau A. and Velarde A. 2015. Electrical Stunning Effectiveness with Current Levels Lower than 1 A in Lambs and Kid Goats. Research in Veterinary Science. 98: 154–161.
- Marciniak, A., Brzeszczynska, J., Gwozdzinski, K. and Jegier, A. 2009. Antioxidant Capacity and Physical Exercise. Biology of Sport. 26(3): 197-213.
- Maritim, A.C., Sanders R.A. and Watkins J.B. 2003. Diabetes, Oxidative Stress and Antioxidants: A Review. J Biochem Molec Toxicol. 17 : 24–38.
- Moberg, G.P. dan Mench J.A. 2000. The Biology Of Animal Stress Basic Principles And Implications For Animal Welfare. CABI Publishing. United Kingdom. p.1.
- Mounier, L., Dubroeucq H., Andanson S., and Veissier I. 2006. Variations in meat pH of beef bulls in relation to conditions of transfer to slaughter and previous history of the animals. J Anim Sci. 84:1567-1576.
- Nowak, B., Mueffling T.V. and Hartung J. 2007. Effect of Different Carbon Dioxide Concentrations and Exposure Times in Stunning of Slaughter Pigs: Impact on Welfare and Meat Quality. Meat Science. 75: 300–308.
- [OIE] Office International des Epizooties. 2011. Slaughter of Animals Chapter 7.5. Paris (FR): Terrestrial Animal Health Code World Organisation for Animal Health. 332-355.
- Pleiter, H. 2010. Review of Stunning and Halal Slaughter. Meat and Livestock Australia (MLA). Sydney. Australia. 12-20
- Proverbio, D., Perego R., Spada E., de Giorgi G.B., Belloli A. and Pravettoni D. 2013. Comparison of VIDAS and Radio Immuno Assay Methods for Measurement of Cortisol Concentration in Bovine Serum. Sci World. 2013 : 1-5.
- Putra, G.A., Hidayat E.M dan Thadeus M.S. 2012. Dampak Penundaan Pemisahan Serum dari Sel Darah Terhadap Hasil Pemeriksaan Kadar Glukosa Darah dengan Metode Heksokinase. Bina Widya. 23(5): 264-270.

- Rahardjani, K.B. 2010. Hubungan antara Malonaldehida (MDA) dengan Hasil Luaran Sepsis Neonatorum. Jurnal Sari Pediatri. 12(2): 82-88.
- Rajkumar, S., Praveen M.R., Gajjar D., Vasawada A.R., Alapure B., Patel D. and Kapur S. 2008. Activity of Superoksid Dismutase Isoenzymes In Epithelial Cells Derived Fromdifferent Types of Age-Related Cataract. Jornal of Cataract Refractive Surgery, 34: 470-474.
- Robertson, R.P. 2004. Chronic oxidative stress as a central mechanism for glucose toxicity in pancreatic islet beta cells in diabetes. J Biol Chem. 279(41): 42351–423514.
- Rosenvolt, K dan Andersen H.J. 2003. Factors Of Significance For Pork Quality- A Review. Meat Science. 64:219–237.
- Rui, L.Y., Yong H.S., Gang H., Wu L. and Guo W.L. 2008. Increasing Oxidative Stress with Progressive Hyperlipidemia in Human : Relation Between Malondialdehyde and Atherogenic Index. Journal Clinical Biochemistry and Nutritiont. 43(3): 154-158.
- Sabow, A.B., Sazili A.Q., Zulkifli I., Goh Y.M., Ab Kadir M.Z.A., Abdulla N.R., K. Nakyinsige, U. Kaka and Adeyemi K.D. 2015. A Comparison of Bleeding Efficiency, Microbiological Quality and Lipid Oxidation in Goats Subjected to Conscious Halal Slaughter and Slaughter Following Minimal Anaesthesia. Meat Science. 104:78–84.
- Sabow, A. B., Goh Y.M., Zulkifli I., Ab Kadir M.Z., Kaka U., Adeyemi K.D., Abubakar A.A., Imlan J.C., Ebrahimi M. and Sazili A.Q. 2018. Electroencephalographic and Blood Parameters Changes in Anaesthetised Goats Subjected To Slaughter Without Stunning And Slaughter Following Different Electrical Stunning Methods. Animal Production Science. 59(5) : 849-860.
- Sacher, R.A. dan McPherson R.A. 2012. Tinjauan Klinis Hasil Pemeriksaan Laboratorium. Edisi 11. Alih Bahasa: H. Hartanto. Jakarta: EGC.
- Savira, N.I.I. 2018. Efek Antioksidan Ekstrak Metanol Buah Okra (*Abelmoschus esculentus L.*) Terhadap Aktivitas Superoxide Dismutase, Kadar Nitrit, dan Kadar Malondialdehyde pada Mus musculus yang Dipapar Timbal Asetat [Thesis]. Falkultas Sains dan Teknologi. Universitas Airlangga. Hal. 40-41.
- Sies, H. dan Jones D.P. 2007. Encyclopedia of Stress (Ed. G Fink). Elsevier. San Diego. California. 45-48.

- Sinaga, F.A. 2016. Stres Oksidatif dan Status Antioksidan pada Aktivitas Fisik Maksimal. *Jurnal Generasi Kampus.* 9(2): 176-189.
- StressMarq Bioscience Inc. 2019. StressXpress® SOD Activity Kit Quantitative Colorimetric Measurement of Superoxide Dismutase Activity Catalog SKT-214. <https://www.stressmarq.com/products/assay-kits/sod-activity-kit-skt-214/>. pp. 1-20 [10 November 2019]
- Suarsana, I.N, 2009. Aktivitas Hipoglikemik dan Antioksidatif Ekstrak Metanol Tempe Pada Tikus Diabetes [Disertasi]. Sekolah Pascasarjana. Institut Pertanian Bogor.
- Suarsana, I.N., Utama I.H., Agung I.G. dan Suartini A. 2011. Pengaruh Hiperglikemia dan Vitamin E pada Kadar Malondialdehide dan Enzim Antioksidan Intrasel Jaringan Pankreas Tikus. MKB. 43(2): 72-76.
- Suarsana, I.N, Wresdiyati T. dan Suprayogi A. 2013. Respon Stres Oksidatif dan Pemberian Isoflavon terhadap Aktivitas Enzim Superoxida Dismutase dan Peroksidasi Lipid pada Hati Tikus. JITV. 18(2): 146-152.
- Subandrate. 2016. Hubungan Kadar Glukosa Darah dengan Peroksidasi Lipid pada Pasien Diabetes Melitus Tipe 2. CDK-242. 43(7): 487-489.
- Surai, P.F. 2016. Antioxidant Systems in Poultry Biology: Superoxide Dismutase. *Journal of Animal Research and Nutrition.* 1(8): 1-17.
- Suryohudoyo, P. 2000. Oksidan, Antioksidan dan Radikal Bebas. In: Kapita Selektta Ilmu Kedokteran Molekuler. CV Sagung Seto. Jakarta. 31-47.
- Swindle, M.M. and Smith A.C. 2016. Swine in The Labolatory. 3rd Edition. CRC Press. New York. 6-17.
- Valko, M., Leibfritz D., Moncol J., Cronin M.T.D., Mazur M. and Telser J. 2007. Review: Free Radical and Antioxidant in Normal Physiological Function and Human Disease. *Inter J Biochem Cell Biol.* 39: 44-84.
- Vaziri, N.D., Michael D., Nathan D.H., Boroujerdi-rad L. and Sindhu R.K. 2003. Oxidative Stress and Dysregulation of Superoxide Dismutase and NADPH Oxidase in Renal Insufficiency. *Kidney International.* 63 : 179–185.
- Velarde, A., Gispert M., Faucitano L., Alonso P., Manteca X., and Diestre A. 2001. Effects of The Stunning Procedure and The Halothane Genotype on Meat Quality and Incidence of Haemorrhages in Pigs. *Meat Science.* 58(3) : 313–319.

- Velarde, A., Gisperta M., Faucitanoa L., Mantecab X. and Diestre A. 2000. The Effect of Stunning Method on The Incidence of PSE Meat And Haemorrhages in Pork Carcasses. *Meat Science*. 55: 309-314.
- Vergara, H., Linares, M.B., Berruga, M.I., and Gallego, L., 2005. Meat Quality in Suckling Lambs: Effect of Pre-Slaughter Handling. *Meat Science*. 69: 473–478.
- Vogel, K. D., Badtram G., Claus J. R., Grandin T., Turpin S., Weyker R.E. and Voogd E. 2014. Head-Only Followed by Cardiac Arrest Electrical Stunning is an Effective Alternative to Head-Only Electrical Stunning in Pigs. *J. Anim. Sci.* 89 : 1412–1418.
- Warner, R. D., Greenwood P. L., Pethick D. W. and Ferguson D. M. 2010. Genetic and Environmental Effects on Meat Quality. *Meat Science*. 86(1) : 171–183.
- Widowati, W., Safitri R., Ramumpuk R. dan Siahaan M. 2005. Penapisan Aktivitas Superoxide Dismutase pada Berbagai Tanaman. *JKM*. 5(1) : 33-48.
- Winarsi, H. 2007. Antioksidan Alami dan Radikal Bebas: Potensi dan Aplikasinya dalam Kesehatan. Kanisius. Yogyakarta. Hal. 77-82.
- Yu, Z., Kastenmuller G., He Y., Belcredi P., Moller G., Prehn C., Mendes J., Wahi S., Roemisch-Margi W., Ceglerek U., Polonikov A., Dahmen N., Prokisch H., Xie L., Li Y., Wichmann H.E., Peters A., Kronenberg F., Suhre K., Adamski J., Illig T. and Wang-Sattler R. 2011. Differences between Human Plasma and Serum Metabolite Profiles. *Ploss One*. 6(7) : 1-6.
- Yunus, M. 2001. Pengaruh Antioksidan Vitamin C Terhadap MDA Eritrosit Tikus Wistar akibat Latihan Anaerobik. *Jurnal Pendidikan Jasmani*. 1: 9-16.
- Zivotofsky, A.Z. and Strous Rael D. 2012. A Perspective On The Electrical Stunning Of Animals: Are There Lessons to be Learned From Human Electro Convulsive Therapy (ECT). *Meat Science Journal*. 90(4): 956-961.