DAFTAR PUSTAKA

Abd El-Hady, A.M. and O.A.H. El-Ghalid. 2018. *Spirulina platensis Algae* (SPA): a Novel Poultry Feed Additive. Effect of SPA Supplementation in Broiler Chicken Diets on Productive Performance, Lipid Profile and Calcium-phosphorus Metabolism. *World's Poult. Sci. J.* 7498: 1-7.

Abd El-Hady, A.M., O.A. Elghalid, A.S. Elnaggar and E. Abd El-Khalek. 2022. Growth Performance and Physiological Status Evaluation of *Spirulina platensis* Algae Supplementation in Broiler Chicken Diet. *Livestock Science* 263: 105009.

Afifudin, A., Isroli dan E. Widiastuti. 2019. Profil Eritrosit Ayam Broiler yang diberi Pakan Kombinasi Tepung Daun Kelor (*Moringa olifiera*) dan Onggok yang Difermentasi dengan *Chrysonilia crassa*. *Jurnal Ilmu Ternak Universitas Padjadjaran* 19(2): 154-159.

Agustina, S., I.M.D. Swantara dan I.N. Suartha. 2015. Isolasi Kitin, Karakterisasi, dan Sintesis Kitosan dari Kulit Udang. *Jurnal Kimia* 9(2): 271-278.

Ahmad, S., I. Ahmed, S. Haider, Z. Batool, L. Liaquat, F. Ahmed, A. Khan, T. Perveen, M.J. Hasnain, S. Khaliq and S.B. Ahmed. 2020. Effects of Feed Additives on Chicken Growth and Their Residues in Meat Instigating Deleterious Consequences on the Liver Health of Consumers-A Prospective Human Study. *Pakistan Journal of Zoology* 52(3): 909-916.

Alami, S.S.A. 2018. Profil Hematologi Ayam Pedaging yang diberi Ransum Mengandung Asam Laurat dan Pinang Yaki. *Jurnal Veteriner Juni* 19(2): 222-229.

Alfian, Dasrul dan Azhar. 2017. Jumlah Eritrosit, Kadar Hemoglobin dan Nilai Hematokrit pada Ayam Bangkok, Ayam Kampung dan Ayam Peranakan. *Jurnal Ilmiah Mahasiswa Veteriner* 01(3): 533-539.

Ali, N.M., G.A. Mohamed. and A.S. El-Demerdash. 2023. Impact of Oral Administration of Chitosan–nanoparticles on Oxidative Stress Index and Gut Microbiota of Heat Stressed Broilers. *Journal of Advanced Veterinary Research* 13(6): 997-1003.

Al-Surrayai, T. and Al-Khalaifah. 2022. Dietary Supplementation of Fructooligosaccharides Enhanced Antioxidant Activity and Cellular Immune Response of Broiler Chickens. *Journal Poultry Science* 98(10): 4465-4478.

Astuti, F.K., R.F. Rinanti dan Y.A. Tribudi. 2020. Profil Hematologi Darah Ayam Pedaging yang diberi Probiotik lactobacillus plantarum. *Jurnal Nutrisi Ternak Tropis* 3(2): 106-112.

Aswathi, P.B., S.K. Bhanja, Puneet Kumar, T.S. Shyamkumar, Manish Mehra, B.B. Darshana and K.R. Pradeepta. 2019. Effect of Acute Heat Stress on The Physiological and Reproductive Parameters of Broiler Breeder Hens – a Study Under Controlled Thermal Stress. *Indian J. Anim. Res.* 53: 1150–1155.

Atmaja, Y.N.D., S. Siswanto, E. Erwanto dan M. Hartono. 2023. Profil Hematologi (Eritrosit, Hemoglobin, dan PCV) pada Ayam Kampung Betina yang diberi Sambiloto. *Jurnal Riset dan Inovasi Peternakan* 7(2): 237-243.

Ayalew H., H. Zhang, J. Wang, S. Wu, K. Qiu, G. Qi, T. Tekeste, W.T. Wassie and D. Chanie. 2022. Potential Feed Additives as Antibiotic Alternatives in Broiler Production. *Frontiers in Veterinary Science* 9: 916473.

Borowitzka, M.A. 2013. High-value Products from Microalgae Their Development and Commercialisation. *Journal of Applied Phycology* 25: 743-75.

Braune, A. and M. Blaut. 2016. Bacterial Species Involved in The Conversion of Dietary Flavonoids in The Human Gut. *Gut Microbes* 7: 216–234.

Brilianto L., T.A. Sarjana dan R. Muwarni. 2019. Pengaruh Zonasi dalam Kandang Closed House terhadap Profil Darah Merah Ayam Broiler. *Jurnal Peternakan Indonesia* 21(2): 28-30.

Christwardana M., M.M.A. Nur dan H. Hadiyanto. 2013. *Spirulina platensis*: Potensinya sebagai Bahan Pangan Fungsional. *Jurnal Aplikasi Teknologi Pangan* 2(1).

Choi J., A.K. Singh, X. Chen, L. Jirong and W.K. Kim. 2022. Application of Organic Acids and Essential Oils as Alternatives to Antibiotic Growth Promoters in Broiler Chickens. *Animals* 12: 2178.

Cotillard, A., S.P. Kennedy, L.C. Kong, E. Prifti, N. Pons, E.L. Chatelier, M. Almeida, B. Quinquis, F. Levenez, N. Galleron, S. Gougis, S. Rizkalla, J.M. Batto, P. Renault, J. Doré, J.D. Zucker, K. Clément and S.D. Ehrlich. 2013. Dietary Intervention Impact on Gut Microbial Gene Richness. *Nature* 500: 585–588.

Dahiri D. 2020. Analisis Kritis terhadap Kinerja Sektor Pertanian Subsektor Tanaman Pangan. *Jurnal Budget: Isu dan Masalah Keuangan Negara* 5(2): 137-150.

Da Silva, V.P., H.M. van der Werf, S.R. Soares and M.S. Corson. 2014. Environmental Impacts of French and Brazilian Broiler Chicken Production Scenarios: An LCA Approach. *Journal of Environmental Management* 133: 222-231.

De Assis, C.F., N.K. Araujo, M.G.B. Pagnoncelli, M.R. da Silva Pedrini, G.R. de Macedo and E.S. dos Santos. 2010. Chitooligosaccharides Enzymatic Production by Metarhizium anisopliae. *Bioproc. Biosyst. Eng* 33(7): 893-899.

El-Hack, A.M.E., S.A. Abdelnour, A.E. Taha, A.F. Khafaga, M. Arif, T. Ayasan, A.A. Swelum, M.H. Abukhalil, S. Alkahtani, L. Aleya and M.M. Abdel-Daim. 2020. Herbs as Thermoregulatory Agents in Poultry: an Overview. Sci. *Total Environ* 703: 134399.

El-Shall, N.A., S. Jiang, M.R. Farag, M. Azzam, A.A. Al-Abdullatif, R. Alhotan and M. Alagawany. 2023. Potential of Spirulina platensis as a Feed Supplement for Poultry to Enhance Growth Performance and Immune Modulation. *Frontiers in Immunology* 14: 1072787.

Evans, A.M., D.L. Smith and J.S. Moritz. 2015. Effects of Algae Incorporation Into Broiler Starter Diet Formulations on Nutrient Digestibility and 3 to 21 d Bird Performance. *Journal of Applied Poultry Research* 24(2): 206-214.

Fahleny, R., W. Trilaksani dan I. Setyaningsih. 2014. Aktivitas Antioksidan pada Formula Terpilih Tablet Hisap Spirulina berdasarkan Karakteristik Fisik. *Jurnal Ilmu dan Kelautan Tropis* 6(2): 427-444.

Fairchild, B.D., A.B. Batal, C.W. Ritz and P.F. Vendrell. 2005. Drinking Water Iron Concentration Impact on Broiler Performance. *Poultry Science* 15(4): 511-517.

Farag, M.R., M. Alagawany, M.E.A. El-Hack and D. Kuldeep. 2016. Nutritional and Healthical Aspects of Spirulina (Arthrospira) for Poultry, Animals and Human. *International Journal of Pharmacology* 12(1): 36-51.

Firdamayanti, Suherman dan J.M. Rama. 2019. Penggunaan Nanokitosan sebagai Suplemen Pakan Ternak dan Pengaruhnya terhadap Penggemukan Ayam Kampung Jantan. *Jurnal Akademika Kim* 8(1): 23-27.

Francis, G., Z. Kerem, H.P. Makkar and K. Becker. 2002. The Biological Action of Saponins in Animal Systems. *British Journal of Nutrition* 88(6): 587-605.

Gajana, C.S., T.T. Nkukwana, M. Chimonyo and V. Muchenje. 2011. Effect of Altering The Starter and Finisher Dietary Phases on Growth Performance of Broilers. *African Journal of Biotechnology* 10(64): 14203-14208.

Ghofari, M.A., A. Ridlo dan R. Pramesti. 2020. Isolasi Glukosamin dari Limbah Cangkang Rajungan *Portunus pelagicus* (Linnaeus, 1758) (Malacostraca: Portunidae) dengan Hidrolisis Asam Klorida. *Journal of Marine Research* 9(2): 151-158.

Gong, J., R.J. Forster, H. Yu, J.R. Chambers, R. Wheatcroft, P.M. Sabour and S. Chen. 2002. Molecular Analysis of Bacterial Populations in The Ileum of Broiler Chickens and Comparison with Bacteria in The Cecum. *FEMS Microbiol. Ecol.* 41(3): 171-179.

Guroy, B.I., S. Sahin, S. Mantoglu and S. Kayali. 2012. Spirulina as a Natural Carotenoid Source on Growth, Pigmentation and Reproductive Performance of Yellow Tail Cichlid *Pseudotropheus acei*. *Aquaculture International* 20: 869-878.

Hasri, H. 2010. Prospek Kitosan dan Kitosan Termodifikasi sebagai Biopolimer Alami yang Menjanjikan. *Jurnal Chemical* 11(2): 1-7.

Herwintono, H., A. Hidayati and K. Khotimah. 2023. Hematological Status of Broilers with Addition Pegagan (*Centella asiatica* (L.) Urban) on Feed in

Maintenance Without Vaccination. *Scholars Journal of Agriculture and Veterinary Sciences* 10(7): 72-78.

Hirano, S., C. Itakura, H. Seino, Y. Akiyama, I. Nonaka, N. Kanbara and T. Kawakami. 1990. Chitosan as an Ingredient for Domestic Animal Feeds. *Journal of Agricultural and Food Chemistry* 38: 1214-1217.

Ibrahim, A. 2016. Analisis Implementasi Manajemen Kualitas dari Kinerja Operasional pada Industri Ekstraktif di Sulawesi Utara. *Jurnal EMBA: Jurnal Riset Ekonomi, Manajemen, Bisnis dan Akuntansi* 4(2): 768-892.

Ismail, A.S., Y. Rizal, A. Armenia dan A. Kasim. 2022. Optimalisasi Performa Produksi Broiler yang dipelihara dalam Kondisi Heat Stress Menggunakan Antioksidan Alami 'Kalincuang'. *Jurnal Peternakan* 19(1): 55-56.

Jacob J. 2023. *Characteristics of Healthy Birds.* Lexiton: United States of America.

Kabalmay, J.A., E. Suryanto, dan M.R. Runtuwene. 2019. Nano Kitosan Ekstrak Tongkol Jagung Manado Kuning (*Zea Mays* L.) dan Aktivitas Antioksidannya. *Chemistry Progress* 12(1): 13-15.

Kamboh, A.A., S.Q. Hang, M.A. Khan and W.Y. Zhu. 2016. In Vivo Immunomodulatory Effects of Plant Flavonoids in Lipopolysaccharide-Challenged Broilers. *Animal* 10(10): 1619-1625.

Katsumura, K.R., A.W. DeVilbiss, N.J. Pope, K.D. Johnson and E.H. Bresnick. 2013. Transcriptional Mechanisms Underlying Hemoglobin Synthesis. *Cold Spring Harbor Perspectives in Medicine* 3(9): 015412.

Khoiri, N.A., S. Haryogi dan D. Susylowati. 2022. Pelatihan dan Pendampingan Budidaya Pakan Alami Spirulina kepada Tani Mina Bangkit Di Desa Bukateja, Purbalingga. *In Prosiding Seminar Nasional LPPM UMP* 4: 239-243.

Kolluri, G., G. Marappan, A.S. Yadav, A. Kumar, A.K. Mariappan, J.S. Tyagi and P. Govinthasamy. 2022. Effects of Spirulina as a Drinking Water Supplement During Cyclical Chronic Heat Stress on Broiler Chickens: Assessing Algal Composition, Production, Stress, Health and Immune-Biochemical Indices. *Journal of Thermal Biology* 103: 103100.

Kumala, A.S.N., M.A. Djaelani dan E.Y.W. Yuniwarti. 2017. Rasio Otot Tulang Ekstremitas Posterior Ayam Pedaging setelah Pemberian Teh Kombucha dalam Air Minum. *Bioma: Berkala Ilmiah Biologi* 19(1): 62-68.

Kumar, A., E. Sharma, A. Marley, M.A. Samaan and M.J. Brookes. 2022. Iron Deficiency Anaemia: Pathophysiology, Assessment, Practical Management. *BMJ Open Gastroenterology* 9(1): 759.

Kusumasari, Y.F.Y., V.D. Yunianto dan E. Suprijatna. 2012. Pemberian Fitobiotik yang Berasal dari Mahkota Dewa *(Phaleria macrocarpa)* terhadap Kadar Hemoglobin dan Hematokrit pada Ayam Broiler. *Jurnal Aplikasi Teknologi Pangan* 129(4): 129-132.

Laloan, R.J., S.R. Marunduh dan I.M. Sapulete. 2018. Hubungan Merokok dengan Nilai Indeks Eritrosit (MCV, MCH, MCHC) pada Mahasiswa Perokok. *Jurnal Medik dan Rehabilitasi* 1(2): 1-6.

Li, Q.P., S.R. Gooneratne, R.L. Wang, R. Zhang, L.L. A.N., J.J. Chen and W. Pan. 2016. Effect of Different Molecular Weight of Chitosans on Performance and Lipid Metabolism in Chicken. *Animal Feed Science and Technology* 211: 174–180.

Londok, J.J.M.R., W. Manalu, I.K.G. Waryawan dan Sumiati. 2016. Profil Hematologi Ayam Pedaging yang diberi Ransum Mengandung Asam Laurat dan Pinang Yaki sebagai Sumber Antioksidan Alami. *Jurnal Veteriner* 19(2): 222 – 229.

Lu, F., X. Liao, X. Hu and Y. Zhang. 2018. Research Advances in The Effect of Polyphenols on The Gut Microbes and The Discuss about Microbes Which Will Appear as Polyphenols. *J. Food Sci. Technol*. 39: 330–335.

Marcu, A., I. Vacaru-Opriş, G. Dumitrescu, L.P. Ciochină, M. Nicula and C. Mariş. 2013. The Influence of Genetics on Economic Efficiency of Broiler Chickens Growth. *Animal Science and Biotechnologies* 46(2): 339-346.

Marín, L., E.M. Miguélez, C.J. Villar, and F. Lombó. 2015. Bioavailability of Dietary Polyphenols and Gut Microbiota Metabolism: Antimicrobial Properties. *Biomed Research International* 2015(1): 1-18.

Makeri, H.K., J.O. Ayo, T. Aluwong and N.S. Minka. 2017. Daily Rhythms of Blood Parameters in Broiler Chickens Reared Under Tropical Climate Conditions. *Journal of Circadian Rhythms* 15: 151-166.

Murwani, R. 2008. *Aditif Pakan Pengganti Antibiotika.* Unnes Press, Semarang.

Notonegoro, H., I. Setyaningsih dan K. Tarman. 2018. Kandungan Senyawa Aktif *Spirulina platensis* yang Ditumbuhkan pada Media Walne dengan Konsentrasi $NaNO_3$ Berbeda. *Jurnal Pascapanen Dan Bioteknologi Kelautan dan Perikanan* 13(2): 111-122.

Nuengjamnong, C. and K. Angkanaporn. 2017. Efficacy of Dietary Chitosan on Growth Performance, Haematological Parameters and Gut Function in Broilers. *Italian Journal of Animal Science* 17(2): 428-435.

Nufus, B.N., G. Tresmani dan Faturrahman. 2016. Populasi Bakteri Normal dan Bakteri Kitinolitik pada Saluran Pencernaan Lobster Pasir (*Panulirus homarus* L) yang diberi Kitosan. *Jurnal Biologi Tropis* 16(1):15-23.

Nuningtyas, Y.F. 2014. Pengaruh Penambahan Tepung Bawang Putih (*Allium sativum*) sebagai Aditif terhadap Penampilan Produksi Ayam Pedaging. *Journal of Tropical Animal Production* 15(1): 65-73.

Nur, M.M.A., T.M. Setyoningrum, H.N.A. Suwardi, B. Alfitamara, A. Kurniawan, V.A. Prananda and R. Pamularsih. 2021. Potency of *Spirulina platensis* as a Source of Cosmetic and Bioplastic. *Eksergi* 18(2): 82-88.

Nuryati, T. 2019. Analisis Performans Ayam Broiler pada Kandang Tertutup dan Kandang Terbuka. *Jurnal Peternakan Nusantara* 5(2): 77-86.

Olfati, A., A. Mojtahedin, T. Sadeghi, M. Akbari and F. Martínez-Pastor. 2018. Comparison of Growth Performance and Immune Responses of Broiler Chicks Reared Under Heat Stress, Cold Stress and Thermoneutral Conditions. *Spanish Journal of Agricultural Research* 16(2): 0505.

Okamoto, Y., M. Nose, K. Miyatake, J. Sekine, R. Oura, Y. Shigemasa and S. Minami. 2001. Physical Changes of Chitin and Chitosan in Canine Gastrointestinal Tract. *Carbohydrate polymers* 44(3): 211-215.

Opoola, E., O.J. Makinde and A.N. Lawal. 2019. Effect of *Spirulina platensis* Supplementation on Performance, Haematological and Serum Biochemical Profiles of Broiler Chickens Reared Under Tropical Environment. *Nigerian Journal of Animal Science* 21(3): 352-360.

Pan, D. and Z. Yu. 2014. Intestinal Microbiome of Poultry and its Interaction with Host and Diet. *Gut Microbes* 5:108–119.

Patel, S., A. Jose and S.S. Mohiuddin. 2023. *Physiology, Oxygen Transport and Carbon Dioxide Dissociation Curve.* StatPearls Publishing, Treasure Island.

Prayogi, H.S. 2014. The Performance of Broiler Rearing in System Stage Floor and Double Floor. *Indonesian Journal of Animal Science* 24(3): 79-87.

Ratnasari, R., W. Sarengat dan A. Setiadi. 2015. Analisis Pendapatan Peternak Ayam Broiler Pada Sistem Kemitraan di Kecamatan Gunung Pati Kota Semarang. *Animal Agriculture Journal 4*(1): 47-53.

Rini, P.L., I. Isroli dan E. Widiastuti. 2016. Pengaruh Penambaan Ekskretawalet dalam Ransum terhadap Kadar Hemoglobin, Hematokrit, dan Jumlah Eritrosit Darah Ayam Broiler. *Animal Agriculture Journal* 2(3): 14-20.

Rooks, M.G. and W.S. Garrett. 2016. Gut microbiota, Metabolites and Host Immunity. *Nat. Rev. Immunol*. 16: 341–352.

Rovó, A., G. Stüssi, S. Meyer-Monard, G. Favre, D. Tsakiris, D. Heim and A. Tichelli. 2010. Sideroblastic Changes of the Bone Marrow can be Predicted by the Erythrogram of Peripheral Blood. *International journal of laboratory hematology,* 32(3), 329-335.

Sahara, E., T. Widjastuti, R.L. Balia dan A. Abun. 2018. Pengaruh Pemberian Kitosan terhadap Mikroflora Saluran Cerna Itik Tegal. *Jurnal Pendidikan Matematika dan IPA* 9(2): 119-126.

Sahara, E., S. Sandi dan F. Yosi. 2019. Peranan Kitosan dalam Menghasilkan Produk Ternak Unggas yang Sehat. *Jurnal Peternakan Sriwijaya* 8(2): 58-68.

Samour J. 2015. Diagnostic Value of Hematology in Clinical Avian Medicine. Volume II. *Harrison GJ, Lightfoot TL*. Spix Publishing, Florida.

Sanjaya, D.B. dan A. Alhanannasir. 2019. Mempelajari Frekuensi Pencucian Surimi terhadap Nilai Sensoris Pempek Ikan Tenggiri Pasir *(Scomberomorus guttatus)* yang Dihasilkan. *Edible: Jurnal Penelitian Ilmu-ilmu Teknologi Pangan* 7(1): 12-32.

Santosa, S.J., D. Siswanto dan S. Sudiono. 2014. *Dekontaminasi Ion Logam dengan Biosorben Berbasis Asam Humat, Kitin dan Kitosan*. Gadjah Mada University Press, Yogyakarta.

Selim, S., E. Hussein and R. Abou-Elkhair. 2018. Effect of *Spirulina platensis* as a Feed Additive on Laying Performance, Egg Quality and Hepatoprotective Activity of Laying Hens. *European Poultry Science* 82: 1-13.

Siegerstetter, S.C., R.M. Petri, E. Magowan, P.G. Lawlor, Q. Zebeli, N.E. O'Connell, B.U. Metzler-Zebeli. 2018. Fecal Microbiota Transplant From Highly Feed-Efficient Donors Shows Little Effect on Age-Related Changes in Feed-Efficiency-Associated Fecal Microbiota From Chickens. *Applied and Environmental Microbiology* 84(2): e02330-17.

Sundari, S., Z. Zuprizal, T. Yuwanta and R. Martien. 2013. Metabolizable energy of ration added with nanocapsule of turmeric extract on broiler chicken. *Journal of the Indonesian Tropical Animal Agriculture* 38(1): 41-46.

Suharyanto, Tripanji, S. Permatasari and K. Syamsu. 2014. Produksi *Spirulina platensis* dalam Fotobioreaktor Kontinyu Menggunakan Media Limbah Cair Pabrik Kelapa Sawit. *Menara Perkebunan* 82(1): 1-9.

Suryadinata, R.V. 2018. Pengaruh Radikal Bebas terhadap Proses Inflamasi pada Penyakit Paru Obstruktif Kronis (PPOK). *Amerta Nutrition* 2(4): 317-423.

Tallentire, C.W., I. Leinonen and I. Kyriazakis. 2016. Breeding for Efficiency in The Broiler Chicken: a Review. *Agronomy for Sustainable Development* 36: 1-16.

Ulupi, N. and T.T. Ihwantoro. 2014. Gambaran Darah Ayam Kampung dan Ayam Petelur Komersial pada Kandang Terbuka di Daerah Tropis. *Jurnal Ilmu Produksi dan Teknologi Hasil Peternakan* 2(1): 219-223.

Unsoy, G., S. Yalcin, R. Khodadust, G. Gunduz and U. Gunduz. 2012. Synthesis Optimization and Characterization of Chitosan-Coated Iron Oxide Nanoparticles Produced for Biomedical Applications. *Journal of Nanoparticle Research* 14(1): 964.

Vieira, S.L. and C.R. Angel. 2012. Optimizing Broiler Performance using Different Amino Acid Density Diets: What are The Limits. *The Journal of Applied Poultry Research* 21: 149–155.

Virden, W.S., M.S. Lilburn, J.P. Thaxton, A. Corzo, D. Hoehler and M.T. Kidd. 2007. The Effect of Corticosterone-Induced Stress on Amino Acid Digestibility in Ross Broilers. *Poult. Sci*. 86: 338-342.

Waters, H.M. and L.H. Seal. 2001. A Systematic Approach to The Assessment of Erythropoiesis. *Clinical and Laboratory Haematology* 23(5): 271-283.

Widhyari, S.D., I. Wientarsih, A.A. Mustika, A.H. Wardhana, D. Darmakusuma, L.N. Sutardi dan M. Bintang. 2018. Potensi Salep Ekstrak Daun Sirih Merah terhadap Profil Eritrogram sebagai Terapi pada Luka Miasis. *Jurnal Veteriner Maret* 19(1): 30-34.

Xie, W., P. Xu and Q. Liu. 2001. Antioxidant Activity of Water-Soluble Chitosan Derivatives. *Bioorganic and Medicinal Chemistry Letters* 11(13): 1699-1701.

Youssef, I.M., H.A. Khalil, A.M. Shakoori, R.M. Bagadood, A.Y. Alyahyawi, R.A. Alhazzaa and K.M. Youssef. 2023. Immune Response, Hematological Traits, Biochemical Blood Parameters and Histological Status of Laying Hens Influenced by Dietary Chitosan Oligosaccharides. *Poultry Science* 102(9): 102834.

Zhu, L., E. Bao, R. Zhao and J. Hartung. 2009. Expression of Heat Shock Protein 60 in The Tissues of Transported Piglets. *Cell Stress Chaperones* 14: 61–69.

Zuidhof, M.J., B.L. Schneider, V.L. Carney, D.R. Korver and F.E. Robinson. 2014. Growth, Efficiency, and Yield of Commercial Broilers from 1957, 1978, and 2005. *Poultry Science* 93(12): 2970-2982.

Zurmiati, Z., M.E. Mahata, M.H. Abbas dan W. Wizna. 2014. Aplikasi Probiotik untuk Ternak Itik. *Jurnal Peternakan Indonesia* 16(2):134-144.