Abdelli, N., Solà-Oriol, D., & Pérez, J. F. (2021). Phytogenic feed additives in poultry: achievements, prospective and challenges. *Animals*, *11*(12), 3471.

Ahmad, T., & Sarwar, M. (2006). Dietary electrolyte balance: implications in heat stressed broilers. *World's Poultry Science Journal*, *62*(4), 638-653.

Alhotan, R. A., Al Sulaiman, A. R., Alharthi, A. S., & Abudabos, A. M. (2021). Protective influence of betaine on intestinal health by regulating inflammation and improving barrier function in broilers under heat stress. *Poultry science*, *100*(9), 101337.

Brugaletta, G., Teyssier, J. R., Rochell, S. J., Dridi, S., & Sirri, F. (2022). A review of heat stress in chickens. Part I: Insights into physiology and gut health. *Frontiers in physiology*, *13*, 934381.

Cao, C., Chowdhury, V. S., Cline, M. A., & Gilbert, E. R. (2021). The microbiota-gut-brain axis during heat stress in chickens: a review. *Frontiers in physiology*, *12*, 752265.

Chowdhury, V. S., Han, G., Eltahan, H. M., Haraguchi, S., Gilbert, E. R., Cline, M. A., ... & Furuse, M. (2021). Potential role of amino acids in the adaptation of chicks and market-age broilers to heat stress. *Frontiers in veterinary science*, *7*, 610541.

Emami, N. K., Jung, U., Voy, B., & Dridi, S. (2021). *Radical response: Effects of heat stress-induced oxidative stress on lipid metabolism in the avian liver*. Antioxidants, 10(1), 35.

Goel, A., Ncho, C. M., Jeong, C. M., Gupta, V., Jung, J. Y., Ha, S. Y., ... & Choi, Y. H. (2025). Alleviation of acute heat stress in broiler chickens by dietary supplementation of polyphenols from shredded, Steam-Exploded pine particles. *Microorganisms*, *13*(2), 235.

Haghighat-Jahromi, M., Talebi, E., Naemi, M., & Rakhshan, V. (2025). Efficacy and safety of peppermint extract (Mentha Piperita), probiotics, and the co-administration of peppermint plus probiotics in preventing ascites syndrome: A clinical animal

study on male broilers. *Journal of Poultry Sciences and Avian Diseases*, *3*(1), 35-53.

Hossain, M. M., Ahn, J., Choi, S. Y., Hur, S. P., Lim, D., Shin, D., ... & Park, J. E. (2026). Thermal stress responses and heat stress resilience genes in chickens are revealed through genomic and transcriptomic insights. *Journal of animal science and biotechnology*, *17*(1), 42.

Hosseindoust, A., Kang, H. K., & Kim, J. S. (2022). Quantifying heat stress; the roles on metabolic status and intestinal integrity in poultry, a review. *Domestic animal endocrinology*, *81*, 106745.

Kikusato M, Toyomizu M. Mechanisms underlying the Effects of Heat Stress on Intestinal Integrity, Inflammation, and Microbiota in Chickens. J Poult Sci. 2023 Aug 9;60(2):2023021. doi: 10.2141/jpsa.2023021. PMID: 37560151; PMCID: PMC10406517.

Kim, H. R., Seong, P., Seol, K. H., Park, J. E., Kim, H., Park, W., ... & Lee, S. D. (2025). Effects of heat stress on growth performance, physiological responses, and carcass traits in broilers. *Journal of Thermal Biology*, *127*, 103994.

Kim, Y. B., Yeom, G. L., Park, J. Y., Lee, H. N., Park, G. Y., Shin, J. W., ... & Kim, J. H. (2025). Nutritional strategies to alleviate heat stress in broiler chickens and laying hens: role of functional nutrients. *Journal of Animal Science and Technology*, *67*(5), 949.

Lara, L. J., & Rostagno, M. H. (2013). *Impact of heat stress on poultry production*. Animals, 3(2), 356–369. https://doi.org/10.3390/ani3020356

Liu, L., Greene, E. S., Roach, B., Orlowski, S., & Dridi, S. (2025). Effect of chronic heat stress on duodenal epithelial barrier integrity in low-and high-water-efficient broiler chickens. *Frontiers in Physiology*, *16*, 1704737.

Liu, Q. Q., Chen, Y., Liang, Q. H., Tian, S. Z., Yao, Q. H., Ye, X. Q., ... & Liu, W. C. (2026). Fucoidan alleviates spleen damage in

heat-stressed broilers by suppressing oxidative stress, ferroptosis and inflammation. *Poultry Science*, 107022.

Majdeddin, M., Braun, U., Lemme, A., Golian, A., Kermanshahi, H., De Smet, S., & Michiels, J. (2020). Guanidinoacetic acid supplementation improves feed conversion in broilers subjected to heat stress associated with muscle creatine loading and arginine sparing. *Poultry science*, *99*(9), 4442-4453.

Ncho, C. M. (2025). Heat stress and the chicken gastrointestinal microbiota: a systematic review. *Journal of animal science and biotechnology*, *16*(1), 85.

Sahin, K., Sahin, E., Deeh, P. B., Kayri, V., Orhan, C., & Sahin, N. (2023). Role of the antioxidant defence system and transcription factors in preventing heat stress in poultry: a dietary approach. *World's Poultry Science Journal*, *79*(4), 651-687.

Sugiharto Sugiharto, S., Danung Nur Adli, D. N., Mohammad Miftakhus Sholikin, M. M., Tri Ujilestari, T., & Javad Ghanooni Bostanabad, J. G. (2026). Potential of algae as a natural alternative for maintaining intestinal microbiota balance in heat-stressed broiler chickens-a narrative review. *Animal Science and Genetics*, *22*(2).

Surai, P. F., Kochish, I. I., Fisinin, V. I., & Kidd, M. T. (2019). Antioxidant defence systems and oxidative stress in poultry biology: An update. *Antioxidants*, *8*(7), 235.

Surai, P. F., Surai, A., & Earle-Payne, K. (2025). Redox Homeostasis in Poultry/Animal Production. *Antioxidants*, *14*(11), 1365.

Wang, X., Yuan, T., Arain, M. A., Al-Rasheed, M., & Shaukat, A. (2026). Nutrigenomic Potentials of Phytobiotics Against Heat Stress and Allied Afflictions in Livestock Species–An In Silico Supported Review. *Food Science & Nutrition*, *14*(4), e71788.

Wang, X., Yuan, T., Arain, M. A., Al-Rasheed, M., & Shaukat, A. (2026). Nutrigenomic Potentials of Phytobiotics Against Heat

Stress and Allied Afflictions in Livestock Species–An In Silico Supported Review. *Food Science & Nutrition*, *14*(4), e71788.

Wasti, S., Sah, N., & Mishra, B. (2020). *Impact of heat stress on poultry health and performances, and potential mitigation strategies*. Animals, 10(8), 1266.

Wu, Q. J., Liu, N., Wu, X. H., Wang, G. Y., & Lin, L. (2018). Glutamine alleviates heat stress-induced impairment of intestinal morphology, intestinal inflammatory response, and barrier integrity in broilers. *Poultry Science*, *97*(8), 2675-2683.

Yadav, S., & Jha, R. (2019). Strategies to modulate the intestinal microbiota and their effects on nutrient utilization, performance, and health of poultry. *Journal of animal science and biotechnology*, *10*(1), 2.

Zhang, D. D., Xue, M. R., Liu, Y. T., Cui, H. J., & Bai, D. P. (2025). Effects of curcumin on jejunal morphology and intestinal integrity of broiler under heat stress. *Journal of Thermal Biology*, 104296.