



Editorial Recent Advancements in Poultry Health, Nutrition and Sustainability

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Copyright: © 2022 by the author. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (https:// creativecommons.org/licenses/by/ 4.0/). for the birds' growth and development. Probiotics-driven shifts in the gut microbiome can exert considerable indirect effect on the birds' welfare and production performance. The fecal bacteriobiome can be very useful for the global meta-analysis in order to gain a better insight into bacterial functioning and interactions with gut microbiota to improve poultry health, welfare and production performance [9]. For the adjustment of breeding programs for local, commercial, and exotic breeds, and to implement molecular breeding, a proper comprehension of phenotypic and genotypic variation is a *sine qua non* for sustainable breeding [10]. The status of animal welfare needs to be constantly monitored and improved. The use and effect of a new beak-abrasive material not yet examined on mortality of non-beak-trimmed laying hens of different genotypes housed in an alternative pen has been examined [11], and increased the behavioral repertoire of hens. Alternative food sources that support healthy human nutrition are in heavy demand. Ostrich meat, as lean meat with low intramuscular fat (0.5%) and cholesterol content, is suitable for this purpose [12].

Conflicts of Interest: The authors declare no conflict of interest.

References

- Kiss, N.É.; Tamás, J.; Szőllősi, N.; Gorliczay, E.; Nagy, A. Assessment of composted pelletized poultry litter as an alternative to chemical fertilizers based on the environmental impact of their production. *Agriculture* 2021, 11, 1130. [CrossRef]
- Gorliczay, E.; Boczonádi, I.; Kiss, N.É.; Tóth, F.A.; Pabar, S.A.; Biró, B.; Kovács, L.R.; Tamás, J. Microbiological effectivity evaluation of new poultry farming organic waste recycling. *Agriculture* 2021, *11*, 683. [CrossRef]
- Such, N.; Pál, L.; Strifler, P.; Horváth, B.; Koltay, I.A.; Rawash, M.A.; Farkas, V.; Mezőlaki, A.; Wágner, L.; Dublecz, K. Effect of feeding low protein diets on the production traits and the nitrogen composition of excreta of broiler chickens. *Agriculture* 2021, 11, 781. [CrossRef]
- 4. Xu, L.; Li, N.; Farnell, Y.Z.; Wan, X.; Yang, H.; Zhong, X.; Farnell, M.B. Effect of feeding a high calcium: Phosphorus ratio, phosphorous deficient diet on Hypophosphatemic rickets onset in broilers. *Agriculture* **2021**, *11*, 955. [CrossRef]
- Lingens, J.B.; Abd El-Wahab, A.; de Paula Dorigam, J.C.; Lemme, A.; Brehm, R.; Langeheine, M.; Visscher, C. Evaluation of methionine sources in protein reduced diets for turkeys in the late finishing period regarding performance, footpad health and liver health. *Agriculture* 2021, *11*, 901. [CrossRef]
- Alzarah, M.I.; Alaqil, A.A.; Abbas, A.O.; Nassar, F.S.; Mehaisen, G.M.K.; Gouda, G.F.; Abd El-Atty, H.K.; Moustafa, E.S. Inclusion of *Citrullus colocynthis* seed extract into diets induced a hypolipidemic effect and improved layer performance. *Agriculture* 2021, 11, 808. [CrossRef]
- Karaffová, V.; Revajová, V.; Dvorožňáková, E.; Grešáková, Ľ.; Levkut, M.; Ševčíková, Z.; Herich, R.; Levkut, M. Effect of inorganic zinc on selected immune parameters in chicken blood and jejunum after A. galli infection. Agriculture 2021, 11, 551. [CrossRef]
- Cholewińska, P.; Michalak, M.; Wojnarowski, K.; Skowera, S.; Smoliński, J.; Czyż, K. Levels of firmicutes, actinobacteria phyla and lactobacillaceae family on the skin surface of broiler chickens (Ross 308) depending on the nutritional supplement and the housing conditions. *Agriculture* 2021, *11*, 287. [CrossRef]
- 9. Naumova, N.B.; Alikina, T.Y.; Zolotova, N.S.; Konev, A.V.; Pleshakova, V.I.; Lescheva, N.A.; Kabilov, M.R. *Bacillus*-Based Probiotic treatment modified bacteriobiome diversity in duck feces. *Agriculture* **2021**, *11*, 406. [CrossRef]
- Larkina, T.A.; Barkova, O.Y.; Peglivanyan, G.K.; Mitrofanova, O.V.; Dementieva, N.V.; Stanishevskaya, O.I.; Vakhrameev, A.B.; Makarova, A.V.; Shcherbakov, Y.S.; Pozovnikova, M.V.; et al. Evolutionary subdivision of domestic chickens: Implications for local breeds as assessed by phenotype and genotype in comparison to commercial and fancy breeds. *Agriculture* 2021, *11*, 914. [CrossRef]
- 11. Farkas, T.P.; Orbán, A.; Szász, S.; Rapai, A.; Garamvölgyi, E.; Sütő, Z. Examination of the usage of a new beak-abrasive material in different laying hen genotypes (preliminary results). *Agriculture* **2021**, *11*, 947. [CrossRef]
- Brassó, L.D.; Szabó, V.; Komlósi, I.; Pusztahelyi, T.; Várszegi, Z. Preliminary study of slaughter value and meat characteristics of 18 months ostrich reared in hungary. *Agriculture* 2021, *11*, 885. [CrossRef]