Uptake and Bioaccumulation of Diverse Hydrocarbon Compounds by Selected Food Plants Artificially Exposed to Bioremediated Crude Oil-Contaminated Soils

Victoria Tovo Jason-Ogugbue, Prince Chinedu Mmom, Ibisime Etela, Joesph Amadi Orluchukwu

References

Ahammed, M. et al. (2014). Comparison of aviary, barn and conventional cage raising of chickens on laying performance and egg quality. *Asian-Australasian journal of animal sciences*, 27(8), 1196–1203. doi: https://doi.org/10.5713/ajas.2013.13394

Ahmad, S. et al. (2019). Productive Performance, Egg Characteristics and Hatching Traits of Three Chicken Genotypes under Free-Range, Semi-Intensive, and Intensive Housing Systems. *Brazilian Journal of Poultry Science*, 21(2). doi: https://doi.org/10.1590/1806-9061-2018-0935

Ahmed, A. M. H. et al. (2005). Changes in eggshell mechanical properties, crystallographic texture and in matrix proteins induced by moult in hens. *British Poultry Science*, 46(3), 268–279. doi: https://doi.org/10.1080/00071660500065425

Alm, M. et al. (2015). Welfare and performance in layers following temporary exclusion from the litter area on introduction to the layer facility. *Poultry Science*, 94(4), 565–573. doi: https://doi.org/10.3382/ps/pev021

Appleby, M. C. and Hughes, B. O. (1995). The Edinburgh modified gage for laying hens. *British Poultry Science*, 36(5), 707–718. doi: https://doi.org/10.1080/00071669508417815

Bertechini, A. G. and Mazzuco, H. (2013). The table egg: A review. *Ciência e Agrotecnoligia*, 37(2), 115–122. doi: https://doi.org/10.1590/S1413-70542013000200001

De Reu, K. et al. (2006). Bacterial eggshell contamination in the egg collection chains of different housing systems for laying hens. *British Poultry Science*. 47(2), 163–172. doi: https://doi.org/10.1080/00071660600610773

Đukić-Stojčić, M. et al. (2009). The quality of table eggs produced in different housing systems. *Biotechnology in Animal Husbandry*, *25*(5/6), 1103–1108.

Englmaierová, M. et al (2014). Effects of laying hens housing system on laying performance, egg quality characteristics, and egg microbial contamination. *Czech Journal of Animal Science*, 59(8), 345–352. doi: https://doi.org/10.17221/7585-CJAS

European Commission. (2019). *EU Market Situation for Eggs*. European Commission, DG Agriculture and Rural Development, Committee for the Common Organisation of the Agricultural Markets: Brussels. Retrieved October 5, 2020 from https://ec.europa.eu/info/food-farming-fisheries/farming/facts-and-figures/markets/overviews/market-overview-sector_en

Galic, A. et al. (2019). Physical and mechanical characteristics of Hisex Brown hen eggs from three different housing systems. *South African Journal of Animal Science*, 49(3), 468–476. doi: https://doi.org/10.4314/sajas.v49i3.7

Hidalgo, A. et al. (2008). A market study on the quality characteristics of eggs from different housing systems. *Food Chemistry*, 106(3), 1031–1038. doi: https://doi.org/10.1016/j.foodchem.2007.07.019

Herndrix Genetics. (2020). *Integra – Bovans Brown*. Hendrix Genetics. Retrieved October 5, 2020 from https://www.integrazabcice.cz/cs/produkty/bovans-brown-cz/

Hernandez, J. M. et al. (2005). Egg quality–meeting consumer expectations. *International Poultry Production*, 13(3), 20–23.

Islam, M. S. and Dutta, R. K. (2010). Egg quality traits of indigenous, exotic and crossbred chickens (Gallus domesticus L.) in Rajshahi, Bangladesh. *Journal of Life and Earth Science*, 5, 63–67. doi: https://doi.org/10.3329/jles.v5i0.7352

Jones, D. R. et al. (2018). Hen genetic strain and extended cold storage influence on physical egg quality from cage-free aviary housing system. *Poultry Science*, 97(7), 2347–2355. doi: https://doi.org/10.3382/ps/pex052

Kraus, A. et al. (2019). The effect of different housing system on quality parameters of eggs in relationship to the age in brown egg-laying hens. *Bulgarian Journal of Agricultural Science*, 25(6), 1246–1253.

Kraus, A. et al. (2021). Determination of selected biochemical parameters in blood serum and egg quality of Czech and Slovak native hens depending on the housing system and hen age. *Poultry Science*, 100(2), 1142–1153. doi: https://doi.org/10.1016/j.psj.2020.10.039

Krawczyk, J. (2009). Effect of layer age and egg production on level on changes in quality traits of eggs from hen conversation breeds and commercial hybrids. *Animal Science*, 9(2), 185–193.

Molnár, S. and Szőllősi, L. (2020). Sustainability and Quality Aspects of Different Table Egg Production Systems: A Literature Review. *Sustainability*, 12(19), 7884. doi: https://doi.org/10.3390/su12197884

Narushin, V. G. et al. (2020). A novel egg quality index as an alternative to Haugh unit score. *Journal of Food Engineering*, 289, 110176. doi: https://doi.org/10.1016/j.jfoodeng.2020.110176

Pesavento, G. et al. (2017). Free-range and organic farming: Eggshell contamination by mesophilic bacteria and unusual pathogens. *Journal of Applied Poultry Research*, 26(4), 509–517. doi: https://doi.org/10.3382/japr/pfx023

Rahmani, D. et al. (2019). Are consumers' egg preferences influenced by animal-welfare conditions and environmental impacts? *Sustainability*, 11(22), 6218. doi: https://doi.org/10.3390/su11226218

Rayan, G. N. et al. (2010). Impact of layer breeder flock age and strain on mechanical and ultra-structural properties of eggshell in chicken. *International Journal of Poultry Science*, 9(2) 139–147. doi: https://doi.org/10.3923/ijps.2010.139.147

Samiullah, S. et al. (2014). Effect of production system and flock age on egg quality and total bacterial load in commercial laying hens. *The Journal of Applied Poultry Research*, 23(1), 59–70. doi: https://doi.org/10.3382/japr.2013-00805

Sokołowicz, Z. et al. (2019). Effect of layer genotype on physical characteristics and nutritive value of organic eggs. *CyTa – Journal of Food*, 17(1), 11–19. doi: https://doi.org/10.1080/19476337.2018.1541480

Sokołowicz, Z. et al (2018). Effect of alternative housing system and hen genotype on egg quality characteristics. *Emirates Journal of Food and Agriculture*, 30(8), 695–703. doi: https://doi.org/10.9755/ejfa.2018.v30.i8.1753

Tolimir, N. et al. (2017). Consumer criteria for purchasing eggs and the quality of eggs in the markets of the city of Belgrade. *Biotechnology in Animal Husbandry*, 33(4), 425–437. doi: https://doi.org/10.2298/BAH1704425T

Tůmová, E. and Ebeid, T. (2003). Effect of housing system on performance and egg quality characteristics in laying hens. *Scientia Agriculturae Bohemica*, 34(2): 73–80.

Vlčková, J. et al. (2018). Effect of housing system and age of laying hens on eggshell quality, microbial contamination, and penetration of microorganisms into eggs. *Czech Journal of Animal Science*, 63(2), 51–60. doi: https://doi.org/10.17221/77/2017-CJAS

Yakubu, A. et al. (2007). Effects of genotype and housing system on the laying performance of chickens in different seasons in the semi-humid tropics. *International Journal of Poultry Science*, 6(6), 434–439. doi: https://doi.org/10.3923/ijps.2007.434.439

Yılmaz Dikmen, B. et al. (2017). Impact of different housing systems and age of layers on egg quality characteristics. *Turkish Journal of Veterinary and Animal Science*, 41(1): 77–84. doi: https://doi.org/10.3906/vet-1604-71

Zampelas, A. (2012). Still questioning the association between egg consumption and the risk of cardiovascular diseases. *Atherosclerosis*, 224(2), 318–319. doi: https://doi.org/10.1016/j.atherosclerosis.2012.08.024