

- Moniruzzaman, M. Murshed Hasan Sarkar, 2021. Impact of Proper Sanitation, Hygiene Practices, Environmental Condition and Water Quality on Disease Incidence in Poultry, Bangladesh. *Asian Journal of Poultry Science*, 15: 13-23, DOI: 10.3923/ajpsaj.2021.13.23
- [3] Effective Cleaning Precedes Effective Disinfecting: The Role of Robots in the New Normal, <https://apac.softbankrobotics.com/apac/learn/effective-cleaning-precedes-effective-disinfecting/> (Accessed date: July 2023)
- [4] V. Yosifova, D. Karastoyanov, "Implementing solar tiles in stock farms for increasing the energy efficiency," 2021 Big Data, Knowledge and Control Systems Engineering (BdKCSE), 2021, pp. 1-4, DOI: 10.1109/BdKCSE53180.2021.9627270
- [5] Joe G. Berry, Livestock Disease: Cause and Control, Oklahoma Cooperative Extension Service, ANSI-3999, March 2017
- [6] Disease prevention for livestock and poultry keepers, Department for Environment, Food & Rural Affairs and Animal and Plant Health Agency, 11 September 2012, <https://www.gov.uk/guidance/disease-prevention-for-livestock-farmers> (Accessed date: July 2023)
- [7] Ebertz, P., Krommweh, M. S., Büscher, W. (2019). Feasibility Study: Improving Floor Cleanliness by Using a Robot Scraper in Group-Housed Pregnant Sows and Their Reactions on the New Device. *Animals: an Open Access Journal from MDPI*, 9(4). <https://doi.org/10.3390/ani9040185>
- [8] R. Ruikkie, This Manure Robot Vacuum Cleans Your Barn Floors Like a Roomba, *Odditymall.com*, July 2021 <https://odditymall.com/manure-robot-vacuum-cleans-barn-floors> (Accessed date: September 2023)
- [9] V. Mazzari, Robotised Cowshed Cleaning, June 2021, <https://www.generationrobots.com/blog/en/robotised-cowshed-cleaning/> (Accessed date: September 2023)
- [10] WashpowerPro Cleaner X100 Product overview, Mashpower A/S, <https://pdf.agriexpo.online/pdf/washpower/wash-robot-pig-houses/184493-22429.html#open73673> (Accessed date: July 2023)
- [11] Washpower product overview, Washing robot for efficient cleaning at pig farms, <https://washpower.com/washing-robots/procleaner-x100/?lang=en> (Accessed date: July 2023)
- [12] Ackerman E., Autonomous Robots Are Helping Kill Coronavirus in Hospitals Robots that can efficiently disinfect hospitals using UV light could slow coronavirus infections, *IEEE Spectrum*, 11 March 2020, <https://spectrum.ieee.org/autonomous-robots-are-helping-kill-coronavirus-in-hospitals> (Accessed date: September 2023)
- [13] SMP Robotics, Coronavirus Disinfection Robot S8.2, April 7, 2020, <https://smprobotics.com/usa/coronavirus-disinfection-robot> (Accessed date: July 2023)
- [14] Cresswell K, Sheikh A, Can Disinfection Robots Reduce the Risk of Transmission of SARS-CoV-2 in Health Care and Educational Settings, *J Med Internet Res* 2020; 22(9):e20896, DOI: 10.2196/20896.

Contribution of Individual Authors to the Creation of a Scientific Article (Ghostwriting Policy)

- Veneta Yosifova carried out the problems in stock farm hygiene, and the analysis of the types of sanitizing robots, and contributed to the conclusion.
- Nikolay Stoimenov carried out the introduction, took part in the analysis of the floor-cleaning robots, and contributed to the conclusion.

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Conflict of Interest

The authors have no conflict of interest to declare.

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