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| Name and surname: | Mariusz Korczyński |
| Academic Degree | dr hab. inż. (DSc.) |
| Institute/Department | Department of Animal Nutrition and Feed Management |
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| ORCID: | https://orcid.org/0000-0003-1959-7866 |
| UPWr Base of Knowledge - link | https://bazawiedzy.upwr.edu.pl/info.seam?affil=&id=UPWr693b76729b04497ab2e4fa9745b99466&lang=en&cid=14875 |
| Researchgate: | https://www.researchgate.net/profile/Mariusz-Korczynski |
| Personal website / Working group website: | No |
| Projects in last 5 years (chronological; with distinction into PI (kierownik) and RF (wykonawca)): | (i) the project concerning evaluation of odour reducing microbial-mineral additive for poultry manure, financially supported by The National Centre for Research and Development grant no. PBS2/B8/14/2014 "Innovative biopreparation for poultry production premises" - contractor, (ii) Leader R&D Team in project: "Research and development works of Agrolok sp. z o.o. relating to development of innovative high-protein feed components based on soya and rape for increase of protein safety in the EU", financed by European Funds, Program Smart Growth, Fast Track), (iii) the project in the Horizon 2020 Framework Programme, ERA-NET CO-FUND ICT-AGRI-FOOD, LivestockSense, "Enhancing environmental sustainability of livestock farms by removing barriers for adoption of ICT technologies" - contractor. |
| Research topic and funding | |
| 1) PhD topic: | The use of new forms of protein concentrates in poultry nutrition |
| 2) Research discipline in Doctoral School | Animal Science and Fisheries |
| 3) Short description of the research problem to be solved in the PhD: | The subject of the research concerns the evaluation of the fodder suitability of protein concentrates in poultry nutrition. Protein concentrates will be made on the basis of non-GMO soybeans. The whole soybean grain will undergo an innovative treatment process in atmosphere of high pressure, optimal temperature and in vapour barrier. It is assumed that the process will produce a protein concentrate with high digestibility of amino acids, low content of trypsin inhibitors and increased oil content. After obtaining the feed material with the desired protein and oil content and a sufficiently low level of anti-nutritional substances, it will be tested on animals. Tests on the digestibility of amino acids and the determination of digestible energy levels will be performed on chickens for slaughter (males). However, growth tests will be performed on laying hens and chickens for slaughter. Animal growth and production studies aim to determine the level of substitution of classic soybean meal with a new protein concentrate in compound feed. |
| 4) Professional skills for PhD candidate (e.g. master program, specializations, softwares, language, analytical techniques): | <ul style="list-style-type: none"> •graduate of animal science or veterinary medicine, •knowledge in the field of animal nutrition, •readiness to complete a foreign research internship, •knowledge of English at least at B2 level, •knowledge of laboratory techniques for the determination of nutrients in feed, •knowledge in the field of poultry production, •computer skills - MS Office, •readiness to work with animals, <ul style="list-style-type: none"> graduate of animal science or veterinary medicine, •knowledge in the field of animal nutrition, •readiness to complete a foreign research internship, •knowledge of English at least at B2 level, •knowledge of laboratory techniques for the determination of nutrients in feed, •knowledge in the field of poultry production, •computer skills - MS Office, •readiness to work with animals. |
| 5) Details of the project to support PhD research | |
| a) Project title: | No |
| b) Agreement number: | No |
| c) Number of months in the project to support PhD (in months; starting from 1st of October 2021): | 0 |
| 6) Project website: | |