

PROFILE FOR INSTITUTE WEBSITE

Current photo in graphic file e.g. 2024, 2023.	
Name and surname, Title	Monika Szymańska-Czerwińska, PhD, DSc
Position	associate professor
Hirsch Index and Number of citations (according to Scopus) on the day of completing the form	Hirsch Index=15 Number of citations = 646
Research areas (in points, min. 200 characters, max. 500 characters)	– molecular survey: sequencing, gene expression, genomic analyses, – health-promoting properties of plant origin materials manufactured in sustainable production systems, including human health, animal welfare and preservation of the natural environment, – xenobiotics and mycotoxins in food and cereals, – nutrigenomic, – infectious animal diseases, zoonoses.
Total number of completed research projects; currently implemented research projects (title and number) and selected max. 3 completed projects (title and number) from the newest ones, i.e. 2024, 2023, 2022...	– total number of project: 6 – <u>currently implemented research projects:</u> 2024-2025 – Food safety and quality, development of methods for quick identification of anti-nutritional compounds, e.g. alpha and ochratoxins in grain and feed and antibiotic residues in meat. – <u>completed projects:</u> 2019-2023 – project 3rd Health Program, under the acronym „SHARP” „Strengthened International Health Regulations and Preparedness in EU”, funded by European Commission. 2016-2019 - project ID: 2015/17/D/NZ7/00816 pt „Prevalence and genotypic characterisation of the domestic strains of <i>Coxiella burnetii</i> in dairy herds and possibility of Q fever transmission by alimentary route”, funded by National Science Centre. 2015-2016 – project ID: IP214047273 pt. „Molecular analysis and assessment of zoonotic potential <i>Chlamydia</i> spp. occurring in birds, with particular emphasis on new unclassified species this pathogen,” funded by Ministry of Science and Higher Education.
Total number of publications; ORCID (number and hyperlink to the profile);	– total number of publications: 54 – ORCID: https://orcid.org/0000-0001-8974-0870

SCOPUS (number and hyperlink to the profile); indicate selected publications (max. 5)	– SCOPUS: https://www.scopus.com/authid/detail.uri?authorid=23393819600 – Zareba-Marchewka K., <u>Szymańska-Czerwińska M.</u>, Livingstone M., Longbottom D., Niemczuk K.: Whole Genome Sequencing and comparative genome analyses of <i>Chlamydia abortus</i> strains of avian origin suggests that <i>Chlamydia abortus</i> species should be expanded to include avian and mammalian subgroup. Pathogens 2021,10 (11), 1405. – <u>Szymańska-Czerwińska M.</u>, Jodełko A., Zareba-Marchewka K., Niemczuk K.: Experimental inoculation of chicken broilers with <i>C. gallinacea</i> strain 15056/1. Scientific Reports 2021, 11(1), 23856. – <u>Szymańska-Czerwińska M.</u>, Jodełko A., Zareba-Marchewka, Niemczuk K.: Shedding and genetic diversity of <i>Coxiella burnetii</i> in Polish dairy cattle. PLoS One 2019, 14(1), e0210244. – Mitura A., Niemczuk K., Zareba K., Zajac M., Laroucau K., <u>Szymańska-Czerwińska M.</u>: Free-living and captive turtles and tortoises as carriers of new <i>Chlamydia</i> spp. PLoS One 2017, 12(9), e0185407. – <u>Szymańska-Czerwińska M.</u>, Mitura A, Niemczuk K, Zareba K, Jodełko A, Pluta A.: Dissemination and genetic diversity of chlamydial agents in Polish wildfowl: Isolation and molecular characterisation of avian <i>Chlamydia abortus</i> strains. PLoS One 2017, 12(3), e0174599.
Total number of patents; selected patents (max. 2) and a hyperlink to personal patent achievements (UP RP), on the day of completing the form	not applicable
Selected scientific achievements from the newest, i.e. 2023, 2022, 2021... (in points, min. 800 characters, max. 1000 characters)	– 2023 – Whole - genome sequencing (WGS) of national <i>C. gallinacea</i> strains. – 2022 – Whole - genome sequencing (WGS) of avian <i>C. abortus</i>. – 2021 – Change in the definition of the species <i>C. abortus</i> - expanding the definition and beside mammalian strains the avian strains (avian <i>C. abortus</i>) were include based on the results of genomic analyses, including high-throughput sequencing. – 2021 – Development of quick identification of <i>C. psittaci</i> strains based on SNP analysis. – 2019 - Assessment of the epidemiological situation and genotyping of <i>C. burnetii</i> strains in dairy cattle in Poland. – 2018 - Development of an effective system for monitoring and limiting the spread of Q fever in the cattle population in Poland. – 2017 – Detection of a novel Chlamydia species in tortoises. – 2017 – Detection of a novel, previously not classified avian chlamydia strain in wild birds. – 2013 - First description of novel Chlamydia agent (<i>C. gallinacea</i>) in Polish poultry.
Number and list of defended PhD students from the latest, i.e. 2024, 2023, 2022...	– 2020 - Agata Mitura – doctoral dissertation „Birds and reptiles as a reservoir of new chlamydia species. – 2018 - Agnieszka Jodełko – doctoral dissertation „Genotyping of <i>Coxiella burnetii</i> strains occurring in cattle and evaluation of transmission <i>via</i> alimentary route”.

Organizational activities, dissemination of knowledge and others (in points, min. 300 characters, max. 1000 characters)	– member of the European Society of Animal Chlamydioses and Associated Zoonoses, – expert of the laboratory council at the Chief Veterinary Officer (2019-2023), – member of specialization committee - veterinary laboratory diagnostics (2016-2020), – lectures for students and specialization students (veterinary laboratory diagnostics, epizootiology and veterinary administration, poultry diseases, swine diseases), – lectures for employees of units responsible for transferring knowledge to farmers, – training for veterinary inspection, – participation in the organization of international buiatric conferences, COST, EPIZON, – popular science articles, – reviewing publications for JCR journals, – reviewer and committee member in habilitation proceedings, – preparing opinions and instructions commissioned by the Chief Veterinary Officer.
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