

PROFILE FOR INSTITUTE WEBSITE

Current photo in graphic file e.g. 2024, 2023.	
Name and surname, Title	Professor Krzysztof Niemczuk, DVM, PhD, ScD
Position	professor
Hirsch Index and Number of citations (according to Scopus) on the day of completing the form	Hirsch Index=23 Number of citations = 1476
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: 4 – <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> – 2004-2006 – ID: 870/2/02 "Improvement of diagnostic methods and assessment of the epidemiological situation of chlamydophilosis in cattle in Poland" - financed by the Committee for Scientific Research. – 2007-2010 - ID: R1202302 "Optimization of methods for assessing the epidemiological situation and the risk of spreading diseases of farm animals important for public health: Assessment of the occurrence of anti-<i>Chlamydia/Chlamydomphila</i> sp. antibodies in the domestic pig population and standardization of methods (CFT and PCR) used in the diagnosis of this disease" financed by the National Center Research and Development.

	– 2009-2010 - projekt COST Action Chlamydiosis and Zoonotic Implications CFP/EFSA/ZOONOSES/2008/01 pt. „Development of harmonised schemes for monitoring and reporting of rabbits and Q fever in animals in the European Union” funded by European Commission.
Total number of publications; ORCID (number and hyperlink to the profile); SCOPUS (number and hyperlink to the profile); indicate selected publications (max. 5)	– total number of publications: 96 – ORCID: https://orcid.org/0000-0003-1611-9770 – SCOPUS: https://www.scopus.com/authid/detail.uri?authorId=55948206900 – Zaręba-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., Zaręba-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., Zaręba-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., Zaręba 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, Zaręba 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 – Implementation of SARS-CoV-2 monitoring study on mink farms in Poland and risk assessment to public health. – 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 – Epidemiological studies of the H5NX avian influenza virus – combined with development of eradication program based on scientific research and 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, previously not classified avian chlamydia strain in wild birds. – 2016 – Analysis of ASFV spreading in the wild boar population in Poland, – 2014 – First description of ASFV in Poland. – 2013 - First description of <i>C. gallinacea</i> in Polish poultry.
Number and list of defended PhD students from the latest, i.e. 2024, 2023, 2022...	– 2023 – Kinga Zaręba-Marchewka – doctoral dissertation „Genome analysis of bacteria belonging to the <i>Chlamydia</i> genus”. – 2018 - Agnieszka Jodełko – doctoral dissertation „Genotyping of <i>Coxiella burnetii</i> strains occurring in cattle and evaluation of transmission <i>via</i> alimentary route”. – 2016 – Ewelina Szacawa – doctoral dissertation „Prevalence of <i>Mycoplasma bovis</i> infections in the cattle population in Poland and comparative analysis of methods used in diagnosis”.
Organizational activities, dissemination of knowledge and others (in points, min. 300 characters, max. 1000 characters)	– expert of World Organization for Animal Health (2016-2023), – member of the European Society of Animal Chlamydioses and Associated Zoonoses, – expert of the Sanitary and Epizootic Council at the Chief Veterinary Officer (2012-2022), – member of the laboratory council at the Chief Veterinary Officer (2019-2023), – member of the National Commission for Veterinary Specialization (2016-2020, 2020-2022), – chairman and member of expert groups at the Ministry of Agriculture and Rural Development (2016-2023), – lectures for students, specialization students and employees of Agricultural Advisory Centers responsible for knowledge transfer for agriculture, – organization of national and international conferences resulted including international project e.g. Animal chlamydiosis and its zoonotic implications, – author of popular science articles, – reviewing publications for JCR journals, – reviewer of doctoral dissertations, – reviewer and committee member in habilitation and professors proceedings.