Candidate supervisor's information summary form
maximum 2 pages – it should be a summary of the most important achievements

Name and surname, degree, title: **Małgorzata Gieryńska, PhD, DSc**	
Academic discipline/disciplines	Veterinary Sciences
Professional development (degrees and titles) in chronological order	2019 - DSc 1998 - PhD 1990 - MSc (specialization in microbiology)
Most important publications/ patents in the last 3 years (maximum 10)	- Gregorczyk-Zboroch K., Szulc-Dąbrowska L.,Pruchniak P., **Gieryńska M.**, Mielcarska M.B., Biernacka Z., Wyżewski Z., Lasocka I., Świtlik W.,Szepietowska A., Kukier P., Kwiecień-Dębska A., Kłęk J. Modifications of Mitochondrial Network Morphology Affect the MAVS-Dependent Immune Response in L929 Murine Fibroblasts during Ectromelia Virus Infection Pathogens 2024, 13(9), 717; https://doi.org/10.3390/pathogens13090717 - Biernacka Z., Gregorczyk-Zboroch K, Lasocka I., Ostrowska A., Struzik J., **Gieryńska M.**, Toka F.N., Szulc-Dąbrowska L. Ectromelia Virus Affects the Formation and Spatial Organization of Adhesive Structures in Murine Dendritic Cells In Vitro. Int. J. Mol. Sci. 2024, 25(1): 558; doi: 10.3390/ijms25010558 - Szulc-Dąbrowska L., Biernacka Z., Koper M., Struzik J., **Gieryńska M.**, Schollenberger A., Lasocka I., Toka F.N. Differential Activation of Splenic cDC1 and cDC2 Cell Subsets following Poxvirus Infection of BALB/c and C57BL/6 Mice. Cells, 2024, 13: 13; doi.org/10.3390/cells13010013 **- Gieryńska M.**, Szulc-Dąbrowska L., Struzik J., Gregorczyk-Zboroch K.P., Mielcarska M.B., Toka F.N.,Schollenberger A., Biernacka Z. Orthopoxvirus Zoonoses—Do We Still Remember and Are Ready to Fight? Pathogens, 2023, 12: 363; doi: 10.3390/pathogens12030363 **- Gieryńska M.**, Szulc-Dąbrowska L., Struzik J., Mielcarska M.B., Gregorczyk-Zboroch K.P. Integrity of the Intestinal Barrier: The Involvement of Epithelial Cells and Microbiota-A Mutual Relationship. Animals (Basel), 2022, 12: 145; doi: 10.3390/ani12020145 - Mielcarska M.B., Gregorczyk-Zboroch K.P., Szulc-Dąbrowska L., Bossowska-Nowicka M., Wyżewski Z., Cymerys J., Chodkowski M., Kiełbik P., Godlewski M., **Gieryńska M.**, Toka F.N. Participation of Endosomes in Toll-Like Receptor 3 Transportation Pathway in Murine Astrocytes. Front. Cell. Neurosci., 2020, 17: 14544612; doi: 10.3389/fncel.2020.544612. eCollection 2020 - Bossowska-Nowicka M., Mielcarska M.B., Struzik J., Jackowska-Tracz A., Tracz M., Gregorczyk-Zboroch K.P.,

	Gieryńska M., Toka F.N. Deficiency of Selected Cathepsins Does Not Affect the Inhibitory Action of ECTV on Immune Properties of Dendritic Cells. Immunol. Invest., 2020, 49(3): 232-248 doi: 10.1080/08820139.2019.1631843 - Struzik J., Szulc-Dąbrowska L., Mielcarska M.B., Bossowska-Nowicka M., Koper M., **Gieryńska M**. First Insight into the Modulation of Noncanonical NF-κB Signaling Components by Poxviruses in Established Immune-Derived Cell Lines: An In Vitro Model of Ectromelia Virus Infection. Pathogens, 202, 9(10): 814; doi: 10.3390/pathogens9100814
Experience in working with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	- Assistant supervisor of the doctoral thesis of Matylda Mielcarska; defense of the doctoral thesis 2021 - Supervisor of the doctoral thesis of Pola Pruchniak; Doctoral School WULS, 2024-2028
Achievements in the area of projects/grants (in the last 5 years)	-
Subject area of the research project for which the candidate student is being recruited	The studies will aim to evaluate how selected bacteria from the *Staphylococcus intermedius* group (SIG), including *S. intermedius, S. pseudintermedius*, and *S. delphini*, affect intracellular signaling pathways and mitochondrial activity of innate immune cells using an in vitro model. The studies will be conducted using a semi-continuous canine keratinocyte cell line and an established mouse macrophage cell line, RAW 264.7, which will be stimulated with specific bacterial species belonging to the SIG; the techniques used include fluorescence and confocal microscopy, Real-Time PCR, Western blot, ELISA, flow cytometry. The invasiveness of selected SIG strains will be assessed using routine microbiological techniques, and the minimal multiplicity of infection (MOImin) required to induce cells of both lines will be evaluated.
<u>Contact details:</u> Institute E-mail address Telephone number	Division of Immunology, Department of Preclinical Sciences, Institute of Veterinary Medicine, Warsaw University of Life Sciences-SGGW Ciszewskiego street 8, 02-786 Warsaw Phone number 225936060 email: malgorzata_gierynska@sggw.edu.pl