

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)	<p>- Pruchniak P., Niedzielska A., Nejfeld R., Wyżewski Z., Gregorczyk-Zboroch K., Szulc-Dąbrowska L., Gieryńska M.: It's a Trap!—Potential of Cathepsins in NET Formation, <i>International Journal of Molecular Sciences</i>, MDPI, vol. 26, nr 22, 2025, Numer artykułu: 11213, s. 1-27, DOI:10.3390/ijms262211213</p> <p>- 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 <i>Pathogens</i> 2024, 13(9), 717; https://doi.org/10.3390/pathogens13090717</p> <p>- 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. <i>Int. J. Mol. Sci.</i> 2024, 25(1): 558; doi: 10.3390/ijms25010558</p> <p>- 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. <i>Cells</i>, 2024, 13: 13; doi.org/10.3390/cells13010013</p> <p>- 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? <i>Pathogens</i>, 2023, 12: 363; doi: 10.3390/pathogens12030363</p> <p>- 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. <i>Animals (Basel)</i>, 2022, 12: 145; doi: 10.3390/ani12020145</p>

Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	<ul style="list-style-type: none"> - 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	<p>The studies will evaluate how selected bacteria from the <i>Staphylococcus intermedius</i> group (SIG), including <i>S. intermedius</i>, <i>S. pseudintermedius</i>, and <i>S. delphini</i>, affect intracellular signaling pathways and mitochondrial activity in innate immune cells using an in vitro model.</p> <p>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, and flow cytometry.</p> <p>The invasiveness of selected SIG strains will be assessed using routine microbiological techniques, and the minimal multiplicity of infection (MOI_{min}) required to infect cells from both lines will be determined.</p>
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