

Summary Specification of Scientific Accomplishments of a Thesis Supervisor Candidate
 maximum 2 pages - it should be a synthesis of the most important elements of accomplishments

Name and surname, degree, scientific title: Małgorzata Gieryńska, PhD, DSc	
Scientific discipline/s	Veterinary Sciences
Professional development (scientific degrees and titles) chronologically	2019 - DSc 1998 - PhD 1990 - MSc (specialization in microbiology)
Most important publications/ patents from the last 3 years (max. 10)	<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> <p>Mielcarska M.B., Gregorczyk-Zboroch K.P., Szulc-Dąbrowska L., Bossowska-Nowicka M., Wyżewski Z., Cymerys J., Chodkowski M., Kielbik P., Godlewski M., Gieryńska M., Toka F.N. Participation of Endosomes in Toll-Like Receptor 3 Transportation Pathway in Murine Astrocytes. <i>Front. Cell. Neurosci.</i>, 2020, 17: 14544612; doi: 10.3389/fncel.2020.544612. eCollection 2020</p> <p>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</p>

	<p>Properties of Dendritic Cells. Immunol. Invest., 2020, 49(3): 232-248 doi: 10.1080/08820139.2019.1631843</p> <p>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</p> <p>Szulc-Dąbrowska L., Wyżewski Z., Gregorczyk-Zboroch K.P., Toka F.N., Szczepanowska J., Struzik J., Nowak-Życzyńska Z., Gieryńska M., Niemiałowski M. Mitochondria-related gene expression profiles in murine fibroblasts and macrophages during later stages of ectromelia virus infection in vitro. Acta Virol, 2020, 64(3): 307-324; doi: 10.4149/av_2020_305.</p>
Experience in work with PhD students (defended dissertations, initiated dissertation procedures), chronologically	Assistant supervisor of the doctoral thesis of Matylda Mielcarska; defense of the doctoral thesis 2021
Project/grant accomplishments (from the last 10 years)	The role of myeloid dendritic cells in the polarization of the immune response in resistant (C57BL/6) and sensitive (BALB/c) mice during ectromelia virus infection, 2012 - 2017, a research project financed by the National Science Center, nature of participation in the project implementation - contractor
Theme scope - research problem - for the solving of which the PhD student is sought	<p>Virus-host relationship, induction of defense mechanisms – ectromelia virus model.</p> <p>The participation of extracellular traps in antimicrobial defense, and the involvement of mitochondria in forming these structures.</p> <p>Throughout all studies the established cell lines and peripheral blood neutrophils will be used; fluorescence and confocal microscopy techniques, Real-Time PCR, Western blot, ELISA, flow cytometry, cell sorting, MACS, and other techniques will be applied.</p>
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