

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

Name and surname, degree, title: dr hab. Małgorzata Domino	
Discipline/ disciplines of science	veterinary
Professional development (degrees and titles) in chronological order	2011 r. DVM, FVM WULS Warsaw 2012 r. MSc animal science, FAS WULS Warsaw 2015 r. PhD, FVM WULS Warsaw 2019 r. dr hab., FVM WULS Warsaw
Most important publications/patens over the last 3 years (maximum 10)	<ol style="list-style-type: none"> <li>1. Domino M., Jasiński T., Kautz E., Juszczyk-Kubiak E., Ferreira-Dias G., Zabielski R., Sady M., Gajewski Z. Expression of genes involved in the NF-κB-dependent pathway of the fibrosis in the mare endometrium. <i>Theriogenology</i> 2020; 147, 18-24.</li> <li>2. Maško M., Domino M., Lewczuk D., Jasiński T., Gajewski Z. Horse Behavior, Physiology and Emotions during Habituation to a Treadmill. <i>Animals</i> 2020; 10(6), 921.</li> <li>3. Domino M., Romaszewski M., Jasiński T., Maško M. Comparison of the Surface Thermal Patterns of Horses and Donkeys in Infrared Thermography Images. <i>Animals</i> 2020; 10(12), 2201.</li> <li>4. Maško M., Borowska M., Domino M., Jasiński T., Zdrojkowski Ł., Gajewski Z. A novel approach to thermographic images analysis of equine thoracolumbar region: the effect of effort and rider's body weight on structural image complexity. <i>BMC Veterinary Research</i> 2021, 17(1), 1-12.</li> <li>5. Jasiński T., Zdrojkowski Ł., Kautz E., Juszczyk-Kubiak E., Ferreira-Dias G., Domino M. Equine Endometrosis Pathological Features: Are They Dependent on NF-κB Signaling Pathway? <i>Animals</i> 2021; 11, 3151.</li> <li>6. Domino M., Borowska M., Kozłowska N., Zdrojkowski Ł., Jasiński T., Smyth G., Maško M. Advances in thermal image analysis for the detection of pregnancy in horses using infrared thermography. <i>Sensors</i> 2022, 22, 191.</li> <li>7. Domino M., Borowska M., Trojakowska A., Kozłowska N., Zdrojkowski Ł., Jasiński T., Smyth G., Maško M. The Effect of Rider:Horse Bodyweight Ratio on the Superficial Body Temperature of Horse's Thoracolumbar Region Evaluated by Advanced Thermal Image Processing. <i>Animals</i> 2022, 12, 195.</li> <li>8. Maško M., Lewczuk D., Szarska E., Domino M. Successive approximation of horses to their first work on a treadmill: the effect of previous loading into a trailer. <i>Animal Science Journal</i> 2022, 93, e13687.</li> </ol>

	<p>9. Domino M., Borowska M., Kozłowska N., Trojakowska A., Zdrojkowski Ł., Jasiński T., Smyth G., Maśko M. Selection of Image Texture Analysis and Color Model in the Advanced Image Processing of Thermal Images of Horses following Exercise. <i>Animals</i> 2022, 12, 444.</p> <p>10. Jasiński T., Zdrojkowski Ł., Kautz E., Juszczyk-Kubiak E., Ferreira-Dias G., Domino M. The NF-κB-signalling pathway in mare's endometrium infiltrated with the inflammatory cells. <i>Reproduction in Domestic Animals</i> 2022; 00, 1-13</p>
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	<p>1. assistant supervisor' of doctoral dissertations of Małgorzata Wierzbicka DVM. Doctoral dissertation defense with distinction: 2018 r.</p> <p>2. assistant supervisor' of doctoral dissertations of Michał Trela DVM. Doctoral dissertation defense with distinction: 2019 r.</p> <p>3. supervisor' of doctoral dissertations of Tomasz Jasiński DVM. Appointing a supervisor: 2021 r.</p> <p>4. supervisor' of doctoral dissertations of Natalia Kozłowska DVM. Appointing a supervisor: 2021 r.</p>
Project/grants achievements (from the last 10 years)	<p>1. Assessment of the relationship between the occurrence of degenerative changes of the endometrium (endometriosis) and the location and density of ICLC in the muscular membrane of the mare's uterus. Nr KNOW2015/CB/ESR1/24. 2017-2018. Scientific Consortium "Healthy Animal - Safe Food" KNOW - Leading National Research Centre.</p> <p>2. Evaluation of the process of endometrial fibrosis at the gene level in a case of endometriosis. Nr MINIATURA DEC.2018/02/X/NZ4/00101. 2018-2019. National Science Centre.</p> <p>3. Conducting tests of horses on a water tread, including collecting the material in a grant POIR.01.01.01-00-1001/20 "Innovative training system for horses based on the synergy of unique technical solutions supported by an IT system using AI algorithms" 2020-2022. The National Centre for Research and Development.</p>
Topic – research problem – for which the candidate supervisor seeks a doctoral student	<p>1. Assessment of the horse's exercise capacity while working on a treadmill.</p> <p>2. The use of biosensors supported by machine learning algorithms in the assessment of horse health.</p>
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