

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"> 1. Domino M., Domino K., Gajewski Z. An application of higher order multivariate cumulants in modelling of myoelectrical activity of porcine uterus during early pregnancy. <i>BioSystems</i> 2019; 175: 30–38. 2. Domino M., Domino K., Pawliński B., Sady M., Gajewska M., Gajewski Z. Computational multivariate modeling of electrical activity of porcine uterus during spontaneous and hormone-induced estrus. <i>Experimental Physiology</i> 2019; 104 (3): 322-33. 3. Maśko M, Krajewska A, Zdrojkowski Ł, Domino M, Gajewski Z. An application of temperature mapping of horse's back for leisure horse-rider-matching. <i>Animal Science Journal</i> 2019; 00: 1–11. 4. Maśko 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. 5. Maśko M, Zdrojkowski Ł, Domino M, Jasiński T, Gajewski Z. The pattern of superficial body temperatures in leisure horses lunged with commonly used lunging aids. <i>Animals (Basel)</i>. 2019, 9(12), E1095. 6. Domino M, Jasiński T, Kautz E, Juszczuk-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. 7. Domino M., Romaszewski M., Jasiński T., Maśko M. Comparison of the Surface Thermal Patterns of Horses and Donkeys in Infrared Thermography Images. <i>Animals</i> 2020; 10(12), 2201. 8. Witkowska-Piłaszewicz O., Maśko M., Domino M., Winnicka A. Infrared thermography correlates with lactate concentration in blood during race training in horses. <i>Animals</i> 2020; 10(11), 2072. 9. Maśko 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. 10. Maśko M., Domino M., Jasiński T., Witkowska-Piłaszewicz O. The physical activity-dependent hematological and biochemical changes in

	<p>school horses in comparison to blood profiles in endurance and race horses. <i>Animals</i> 2021; 11, 1128.</p>
<p>Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order</p>	<ol style="list-style-type: none"> 1. assistant supervisor' of doctoral dissertations of Małgorzata Wierzbicka DVM. Doctoral dissertation defense with distinction: 2018 r. 2. assistant supervisor' of doctoral dissertations of Michał Trela DVM. Doctoral dissertation defense with distinction: 2019 r.
<p>Project/grants achievements (from the last 10 years)</p>	<p>Head of the Grant:</p> <ol style="list-style-type: none"> 1. Assessment of the relationship between the occurrence of degenerative changes of the endometrium (endometrosis) 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. 2. Evaluation of the process of endometrial fibrosis at the gene level in a case of endometrosis. Nr MINIATURA DEC.2018/02/X/NZ4/00101. 2018-2019. National Science Centre. <p>Head of the research task:</p> <ol style="list-style-type: none"> 1. 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. 2. Determination of sperm chromatin integrity and morphological examination of motile sperm organelles (MSOME) in rams and their usefulness in the diagnosis of infertility and assisted reproductive techniques. Nr 505-10-023600-K00178-99. 2012-2015. Grant of FVM WULS Warsaw. 3. Assessment of endometrial fibrosis in a case of equine endometrosis. Nr 505-10-023600-P00375-99. 2015-2016. Grant of FVM WULS Warsaw
<p>Topic – research problem – for which the candidate supervisor seeks a doctoral student</p>	<ol style="list-style-type: none"> 1. The role of NF-κB pathway in the fibrosis of equine endometrium in a case of endometrosis. 2. Assessment of the horse's exercise capacity while working on a treadmill. 3. The use of biosensors supported by machine learning algorithms in the assessment of horse health.
<p><u>Contact details:</u></p>	

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