

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

Name and surname, degree, title: Marta Mendel, dr hab.	
Discipline/ disciplines of science	Veterinary medicine
Professional development (degrees and titles) in chronological order	2005 – veterinary surgeon (DVM) 2010 – PhD 2018 – post-doctoral degree
Most important publications/patens over the last 3 years (maximum 10)	<p>1. Mendel M.: Die Wirkung von Pflanzenextrakten auf die Darmmotorik von Wiederkäuern und Schweinen. <i>Zeitschrift für Phytotherapie</i> 2021; 42: 41–44, DOI 10.1055/a-1349-6530</p> <p>2. Mendel M., Chłopecka M., Latek U., Karlik W., Tomczykowa M., Strawa J., Tomczyk M.: <i>Journal of Ethnopharmacology</i>, 259, 2020, 112982, DOI:10.1016/j.jep.2020.112982</p> <p>3. Karlik W, Chłopecka M, Bamburowicz-Klimkowska M, Mendel M.: Modulations of bovine hepatic microsomal metabolism of benzimidazoles by secondary plant metabolites, <i>Journal of Veterinary Pharmacology and Therapeutics</i>, 42 (2), 2019, ss. 222-229, DOI:10.1111/jvp.12727</p> <p>4. Mendel M, Karlik W, Chłopecka M: The impact of chlorophyllin on deoxynivalenol transport across jejunum mucosa explants obtained from adult pigs, <i>Mycotoxin Research</i>, 35(2), 2019, ss. 187-196, DOI:10.1007/s12550-019-00342-2</p> <p>5. Majewski M, Lepczyńska M, Dzika E, Grzegorzewski W, Markiewicz W, Mendel M, Chłopecka M, Evaluation of the time-stability of aortic rings in young Wistar rats during an eight-hour incubation period, <i>Journal of Elementology</i>, 2, 2019, ss. 677-686, DOI:10.5601/jelem.2018.23.4.1715</p> <p>6. Chłopecka M, Mendel M, Dziekan N, Karlik w: The effect of pyriproxyfen on the motoric activity of rat intestine - in vitro study, <i>Environmental Pollution</i>, 241, 2018, ss. 1146-1152, DOI:10.1016/j.envpol.2018.06.0466</p>

	<p>7. Mendel M, Chłopecka M, Dziekan N, Karlik W : Interactions between erythromycin, flunixin meglumine, levamisole and plant secondary metabolites towards bovine gastrointestinal motility - in vitro study, <i>Journal of Veterinary Pharmacology and Therapeutics</i>, 41(2), 2018, ss. 281-291, DOI:10.1111/jvp.12455</p> <p>8. Chłopecka M, Mendel M, Dziekan N, Karlik W: The effect of glyphosate-based herbicide Roundup and its co-formulant, POEA, on the motoric activity of rat intestine - in vitro study, <i>Environmental Toxicology and Pharmacology</i>, 49, 2017, ss. 156-162, DOI:10.1016/j.etap.2016.12.010</p> <p>9. Mendel M, Chłopecka M, Dziekan N, Karlik W: Phytogetic feed additives as potential gut contractility modifiers - a review, <i>Animal Feed Science and Technology</i>, 230, 2017, ss. 30-46, DOI:10.1016/j.anifeedsci.2017.05.008</p>
Experience in work with doctoral students	<p>Urszula Latek, DVM – scientific supervision since 2018</p> <p>Martyna Pośluszny, DVM – scientific supervision since 2020</p> <p>Dominika Szadkowska DVM – scientific supervision since 2020</p>
Project/grants achievements (from the last 10 years)	<ol style="list-style-type: none"> 1. 2013-2017: SONATA Project financed by National Scientific Center (NCN) „Interactions between biologically active phytocompounds present in the fodder and selected therapeutics used in the therapy of cattle diseases - <i>in vitro</i> study” – PI (UMO-2012/05/D/NZ9/01610) 2. 2017: ESR3 Project financed by Scientific Consortium KNOW „Evaluation of chlorophyllin ability to inhibit deoxynivalenol – study on the model of swine isolated mucosa” – PI (KNOW2016/CB/ESR3/1) 3. 2017-2020: SONATA Project financed by National Scientific Center (NCN) „Interaction of mycotixins and antibiotics in gastrointestinal tract and immune system of pigs – <i>in vitro</i> studies” – leader of the project representing the partner of the Consortium (UMO-2016/23/B/NZ7/02273)
Topic – research problem – for which the candidate supervisor seeks a doctoral student	<p>The PhD candidate will investigate the effect of plant extracts and their active ingredients on the contractility of gastrointestinal smooth muscle of various animal species, including rat, pig and chicken. The experiments will be performed on the alternative</p>

	research model of isolated smooth muscle specimens of various gastrointestinal segments. Once the most active plant metabolites are identified, their mechanism of action on smooth muscle will be verified.
<u>Contact details:</u> Faculty/Institute E-mail address Tel.	Institute of Veterinary Medicine Department of Preclinical Sciences Division of Pharmacology and Toxicology marta_mendel@sggw.edu.pl (48) 604 456 676