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Academic Degree:	dr hab. (DSc.)
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Researchgate:	
Personal website / Working group website:	
Participation in projects in last 5 years (chronological; with distinction into PI (kierownik) and RF (wykonawca)):	
PhD topic:	Physiological and behavioral responses to oral supplementation of cannabidiol (CBD) in older horses
Research discipline in Doctoral School:	Animal Science and Fisheries
Short description of the research problem to be solved in the PhD (minimum 1000 characters):	<p>Cannabidiol (CBD) is one of more than 85 active cannabinoids found within the cannabis plant, and accounts for almost 40% of the cannabis plant's extract. CBD has influence on endocannabinoid system, which activation has influence a number of physiological and behavioural processes, including: occurrence of inflammation, energy balance regulation, appetite, feelings of pain, anxiety, reward or satisfaction, endocrine and central nervous system function and reproduction. Cannabidiol has been shown to have physiological and behavioral impacts on human recipient. Studies based on small animals indicated that CBD supplementation reduces anxiety, heart rate, inflammation processes and has positive pain-modulating effects.</p> <p>Older horses (aged ≥ 20 years) are more susceptible to certain environmental influences and disease states than are younger adult horses. That includes presence of increased chronic, low-grade inflammation systemically, termed inflamm-aging. Inflammation together with pain is associated with many afflictions common to older horse, including laminitis and osteoarthritis. Other examples include dental problems, obstructive pulmonary disease or organ failure. Also physiologic changes in their gastrointestinal tracts result in less than optimal digestive function, having difficulty in maintaining weight. It has been indicated that older horses were more prone for fearfulness to unknown situations than the younger ones.</p> <p>While there has been research on the effects of CBD supplementation in humans and small animal species, there is very little research reported in equines. Most of previous studies based on horses indicated influence of CBC supplementation in vitro or in vivo but one time trails. None of the previous studied indicated how long term supplementation will benefit older horses. The objectives of this study is to evaluate physiological and behavioral effects of long-term oral dose of CBD in older horses. The hypothesis of the study is that CBD will have influence on reduction of chronic inflammation processes, stress reactions and will benefit body condition.</p> <p>Included older horses will be assigned for 2 treatments: low and high dose of a CBD. Research horses during supplementation will be assigned for physiological assessment (including blood parameters, heart rate, salivary cortisol concentration) and clinical observations (including: behavior, general condition, appetite, weight, food consumption, signs of dehydration and pain reaction). The research results can potentially have further implications for the management of older horses health and other species.</p>
Professional skills for PhD candidate (e.g. master program, specializations, softwares, language, analytical techniques, minimum 500 characters):	<ul style="list-style-type: none"> •Master's degree in animal science, biology, veterinary science or related fields •Good knowledge of written and spoken English min., level B2 (CEFR) . •Basic experience in working and handling horses in field •Experience in working at laboratory •Self-reliance, reliability, high motivation in carrying out research tasks and ability to work in a team. •Computer skills (Excel, Power Point). •Ability to read scientific literature. • Basic skills of planning experiments, data analysis and writing scientific texts • Presentation and public speaking skills.
a) Project title:	0
b) Agreement number:	0
c) Number of months in the project to support PhD student (in months; starting from 1st of October 2024):	0
Project website:	