

Bachelor's Thesis topics for the BDP ANIMAL PROTECTION AND WELFARE for the academic year 2023/24

Dept.	Bachelor's Thesis Topic and Annotation	*	Bachelor's Thesis Supervisor
2150	<p>The occurrence of <i>Bartonella</i> spp. in ticks at the zoo</p> <p>The bacterium <i>Bartonella</i> spp. is transmitted by ticks of the genera <i>Ixodes</i> and <i>Dermacentor</i>. The aim of the study is the detection of <i>Bartonella</i> spp. in ticks in selected zoos. Under the guidance of a supervisor, the student will collect ticks by flagging in the grounds of selected zoos in the Czech Republic (Brno, Ostrava, Jihlava). After identifying the ticks, the students will detect <i>Bartonella</i> spp. using molecular methods (DNA isolation, PCR, gel electrophoresis) and evaluate the results using statistical methods.</p>	E	Assoc. Prof. MVDr. Eva Bártová, PhD
2190	<p>Occurrence and prevalence of bacterium <i>Francisella tularensis</i> in small mammals at a model site</p> <p><i>Francisella tularensis</i> is a zoonotic agent restricted in distribution to natural foci. A collection of samples from the years 2014 – 2022 is available at the department. The student will participate in testing of the detection method (qPCR with intercalating dye) and processing of samples (DNA isolation, PCR, qPCR, electrophoresis, sequencing, evaluation of sequence data). In results he/she will statistically evaluate the pathogen prevalence in all species at a natural focus and its time pattern. Part of the data will be obtained through the field sampling.</p>	E	Mgr. Alena Balážová, PhD
2410	<p>Trends in the popularity of dog breeds with extreme characteristics</p> <p>Intensive selection aimed at highlighting specific breed characteristics has led to extreme changes in appearance in many breeds with a negative impact on the health and welfare of the dogs. However, an effort to restore a more natural appearance often conflicts with the preferences of owners and breeders. For example, brachycephalic dog breeds remain very popular despite health problems and a clear connection between the desired appearance and the impairment of the respiratory system. The popularity of a certain breed is reflected in the number of dogs registered in the stud book and also in the number of dogs entering dog shows. Based on the changes in numbers over a period of time, trends in the preferences of individual breeds can be observed. The aim of the study will be to assess trends in the frequency of selected dog breeds over a period of several years and to evaluate the breed popularity in relation to breed appearance, namely the popularity of breeds with extreme and potentially health-damaging breed characteristics will be evaluated on the basis of analysis of the national stud book, or catalogues of selected dog world, European or national dog shows.</p>	Ev	prof. Ing. Eva Voslářová, PhD
2410	<p>Welfare of living sheep and goats during their transportation</p> <p>Each year, millions of live animals including sheep and goats are transported to and from the European Union for different reasons (e.g. slaughter, fattening or breeding). The EU tries to protect their welfare during those journeys. The aim of the bachelor thesis is to evaluate the numbers of animals transported in recent 10 years to/from the selected EU countries and the trends in such transportation, and also analyse the breach of the relevant EU regulations of animal welfare during the transport.</p>	Ev	PharmDr. Zuzana Šíroká, PhD

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2420	<p>The effect of praziquantel exposure on red blood cells in grass carp (<i>Ctenopharyngodon idella</i>)</p> <p>Currently, a partial goal of research into the effect of medicinal substances on the fish organism is also the evaluation of the effect of off-label drugs. An important interest of the aquaculture is to include praziquantel, a veterinary antiparasitic, which is not yet approved for the use in aquaculture, among the medicines registered for fish. The aim of the work will be to evaluate the effect of a short-term (96 hours) bath with the addition of 2 and 4 mg/l praziquantel on red blood cells of grass carp (<i>Ctenopharyngodon idella</i>).</p>	E	<p>Assoc. Prof. MVDr. Radka Dobšíková, PhD</p>

* **Bachelor's Thesis type: E...experimental, Ev... evaluative**

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 Dean of the FVHE VETUNI