## " The secretory function and proliferation activity of endometrium: involvement of phoenixin 14"

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The aim of the project is to determine the role of phoenixin 14 in the endometrium function during the estrus cycle. In the planned tasks, we will want to define: (1) mRNA and protein expression profile of phoenixin 14 and its receptor (GPR173) in the endometrium during the estrus cycle; (2) factors, that can regulate the expression of phoenixin-14 and its receptor in the endometrium; (3) impact of phoenixin 14 on the secretory and proliferative activity of the endometrium and, (4) intracellular signaling pathways modulated by phoenixin-14 in the endometrial cells.

## **Requirements for the candidate**

- 1. Master Thesis accomplishment life science degree (biology, biotechnology, animal husbandry) or other related to the discipline of animal science;
- 2. Knowledge in the field of animal physiology, as well as cell biology;
- 3. Basic knowledge in molecular biology techniques (e.g. Real-Time PCR, Western blot), microscopy (IHC/IF) and/or cell culture methods as well as in statistical analyses;
- 4. Good knowledge of English (both spoken and written);
- 5. High motivation for scientific work, good work organization skills, both individual and team work skills;
- 6. Availability: obligation to complete a six-month foreign research internship and willingness for work with in vitro cultures.

## **Required documents:**

- 1. Motivation letter;
- 2. CV;
- 3. Master Thesis Certificate;
- 4. Recommendation letter from the master's thesis supervisor confirming the possession of skills necessary for the performance of the thesis;
- 5. Other documents that, according to the Candidate, are important in considering his / her candidature.