

PhD position in canine reproduction at the Virginia-Maryland College of Veterinary Medicine

Project: “Canine dystocia - Understanding functional alterations of contractility in uterine inertia” Primary uterine inertia (PUI) affects 14-50% or more dogs presenting with dystocia, and due to the lack of effective medical treatment options, almost all dogs undergo Cesarean section. Understanding the underlying endocrine and molecular mechanisms of PUI will not only close a significant knowledge gap but will help improve our current clinical treatment protocols. Our research group has years of experience working with PUI, and the successful candidate will be part of our great research family.

Duration: appointments are on a full-time basis for a period of 3-4 years

Anticipated start date: August 2021

Application deadline: April 15, 2021 or until suitable candidate is found

Candidate profile:

- veterinary degree or last year veterinary student, or graduate in animal science, biology or a related field
- strict work ethic, motivation, good organization skills, team player
- excellent written and verbal communication skills in English
- a genuine interest in canine reproduction, reproductive endocrinology and physiology or uterine biology is a must
- laboratory experience with molecular biology techniques, cell culture, immunohisto/cytochemistry, ELISA procedures is an advantage

For more information on the program and on application requirements, please see the links:

<https://bmvs.vetmed.vt.edu/>

<https://graduateschool.vt.edu/admissions/how-to-apply.html>

To apply for the position, send your CV, a letter of interest with career goals, and names and contact information of two references to the PhD supervisor:

Dr. Orsolya Balogh

E-mail: obalogh@vt.edu

Recent related publications of our research group:

-Frehner BL, Reichler IM, Keller S, Goericke-Pesch S, Balogh O: Blood calcium, glucose and haematology profiles of parturient bitches diagnosed with uterine inertia or obstructive dystocia. *Reprod Domest Anim* 2018;53:680-687.

-Egloff S, Reichler IM, Kowalewski MP, Keller S, Goericke-Pesch S, Balogh O: Uterine expression of smooth muscle alpha- and gamma-actin and smooth muscle myosin in bitches diagnosed with uterine inertia and obstructive dystocia. *Theriogenology* 2020;156:162-170.

-Frehner BL, Reichler IM, Kowalewski MP, Gram A, Keller S, Goericke-Pesch S, Balogh O: Implications of the RhoA / Rho associated kinase pathway and leptin in primary uterine inertia in the dog. *J Reprod Dev*, submitted