

# CUTTING EDGE

# PATHOLOGY



## 4<sup>th</sup> ESVP, ECVP and ESTP Cutting Edge Pathology Congress

*Virtual Congress*  
*15<sup>th</sup> - 17<sup>th</sup> September 2021*

# 4<sup>th</sup> Joint ESVP, ECVP and ESTP Cutting Edge Pathology Congress

*Virtual Congress*  
*15<sup>th</sup> - 17<sup>th</sup> September, 2021*

**Joint ESVP-ECVP-ESTP Sessions**  
“Coronavirus-related Diseases”  
“Next generation biomarkers”  
“Interactive Case presentations”

## Parallel sessions

### ESVP-ECVP

- Global health / emerging disease, speculations on the next pandemic
- Forensic pathology
- Molecular techniques in Pathology
- Oncology
- ECVP History - 25 years
- Poster sessions

### ESTP

- Biomarkers and risk assessment
- Biomarkers of inflammation with immunotherapeutics
- Biomarkers of liver injury
- Validation of biomarkers
- Pathology and biomarkers potpourri
- Biomarkers for neurotoxicity and special senses
- Pathology 2.0 update
- Poster sessions

## Pre-congress meetings:

**Tuesday 14<sup>th</sup> September**  
**IATP Satellite Symposium**

“Biomarkers for the 21<sup>st</sup> Century: The Critical Role of the Microbiome in Toxicology”

**Wednesday 15<sup>th</sup> September**  
**ESVP-ECVP Residents' Day**  
“Skills in Scientific communications”

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# ESVP/ECVP Poster Abstracts



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## Large animals

### EVALUATION OF INFLAMMATORY INFILTRATES IN THE ENDOMETRIUM OF THE JENNY (EQUUS ASINUS)

A. Radar-Chafirovitch<sup>1\*†</sup>, J. Catarino<sup>‡</sup>, L. Lourenço<sup>§</sup>, R. Payan-Carreira<sup>¶</sup>, G. Ferreira-Dias<sup>‡</sup>, J. Miró<sup>‡</sup>, M. Quaresma<sup>\*△</sup> and M.A. Pires<sup>\*△</sup>

\* Department of Veterinary Sciences, School of Agrarian and Veterinary Sciences (ECAV), University of Trás-os-Montes and Alto Douro, Vila Real Portugal, Portugal

† Animal and Veterinary Research Center (CECAV) and AL4Animals, University of Trás-os-Montes and Alto Douro, Vila Real Portugal, Portugal

‡ Faculty of Veterinary Medicine and Research Center for Biosciences & Health Technologies (CBIOS), Lusófona University, Lisboa, Portugal

§ Department of Veterinary Sciences, University of Trás-os-Montes and Alto Douro, Vila Real Portugal, Portugal

¶ Universidade de Évora, Évora, Portugal

‡ CIISA, Faculdade de Medicina Veterinária, Universidade de Lisboa, Lisboa, Portugal

\* Faculty of Veterinary Medicine, Autonomous University of Barcelona, Bellaterra (Cerdanyola del Vallès), Barcelona, Spain

△ Animal and Veterinary Research Centre (CECAV), University of Trás-os-Montes and Alto Douro, Vila Real Portugal, Portugal

**Introduction:** Endometrial immune cell infiltration and its biological significance has not yet been investigated in the jenny. In other species, resident immune cells contribute to homeostasis and female fertility. However, chronic inflammation leads to endometrosis, a major cause of subfertility and infertility in mares, represented by irreversible and progressive fibrosis, glandular and vascular changes. So far, endometrial biopsies of jennies are evaluated using Kenney and Doig's classification for mares.

**Materials and Methods:** Twenty endometrial biopsies of jennies aged between 4 and 20 years were classified according to Kenney and Doig into four categories (I, IIA, IIB and III) using haematoxylin and eosin (HE) stained sections. The Masson-trichrome (MT) stain served for the assessment of connective tissue and immunohistochemistry to detect macrophages (MACA874GA, Bio-Rad) and T cells (polyclonal rabbit anti-CD3, Dako). Five microscopic fields (40x magnification) were assessed for eosinophil (HE), macrophage and T cell (immunohistochemistry) infiltrates, and for collagen (MT), using the ImageJ<sup>®</sup> software. Statistical analysis was performed with SPSS software (Pearson correlation).

**Results:** A significant statistical association was found between the collagen area and Kenney and Doig's classification ( $p=0.017$ ). No correlations were found between each type of inflammatory cells and Kenney and Doig's classification, or between the different types of inflammatory cells.

**Conclusions:** In contrast to mares, jennies exhibited inflammatory infiltrates in all endometrial categories; hence, Kenney and Doig's classification for endometrial biopsies needs adjustment for the jenny. Future studies are required to unravel the influence of endometrial inflammatory cell infiltrates and collagen on the fertility of jennies.