

**JOINT CONGRESS**  
**OF VETERINARY PATHOLOGY AND**  
**VETERINARY CLINICAL PATHOLOGY**  
25-28 SEPTEMBER 2019 | ARNHEM, THE NETHERLANDS

# FINAL PROGRAMME



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# ORGANIZING SOCIETIES & COLLEGES

## The President of the European Society of Veterinary Clinical Pathology

It is with great pleasure that we welcome you to this Joint Congress of Veterinary Pathology and Clinical Pathology; our 21<sup>st</sup> Annual ESVCP Congress and to a unique conference venue. The organizing committee led by Erik Teske has worked incredibly hard to ensure a varied program and lots of wonderful opportunities to interact with worldwide and interdisciplinary colleagues, creating renewing and strengthening our relationships and benefitting from great professional insights from one another. Terrific congresses are indeed made by excellent organization and speakers but mostly by having magnificent delegates that interact, participate and enjoy their time together. Thank you for bringing yourself, your enthusiasm and intellect to this lovely venue for a few busy and rewarding September days. We wish you all an enjoyable congress both professionally and socially



**Peter Graham BVMS PhD CertVR DipECVCP MRCVS**  
President ESVCP  
Chair Scientific Committee ECVCP



## The President of the European Society of Veterinary Pathology

It seems it is just a few days ago that we met in Cluj-Napoca and now, here we are again to come together at our annual ESVP/ECVP meeting, jointly organized with our sister society and college specialized in Veterinary Clinical Pathology. Meetings like this will not only strengthen the relationship between different European societies working in similar and related fields but will also, especially in the present case, allow use to foster our own discipline by sharing diagnostic- and research-related experience, recent developments and future concepts. The focus of the up-coming meeting includes molecular research and effects of disease on wildlife conservation, prepared with great dedication and enthusiasm by the local organizer and the Scientific Committee. They did a wonderful job. The selected venue seems to be the perfect place for such a congress. Besides emphasizing zoo and wild life animal disease, the meeting will of course, also cover topics related to companion and farm animals. Moreover, both diagnostics and pathogenetic studies applying modern, innovative technologies will complement the wide-ranging topics of this meeting. The up-coming congress provides an outstanding collection of State-of-the-Art keynote lectures, interactive workshops, poster presentations, poster flashes and oral presentations fostering soft skills in data presentation and discussions in a scientific manner. Further topics include educational sessions about how to set up a research project and how to evaluate scientific publications to ensure a holistic in-service and advanced training. Furthermore, exchange and networking between anatomic and clinical pathologist will be another highly appreciated “add on” point of this meeting. I am especially looking forward to the new pre-meeting day devoted to our residents. We really hope that this day will foster the professional development of our trainees and will provide them with another piece of information in the toolbox needed for a successful career. In other words, this may be the start of a new concept to include our residents more firmly in our meeting by devoting a special day to their needs. It is important to have a strong network to obtain complementary support to ensure good and solid diagnostics, analysis and science. In order to accomplish these goals such a meeting is the best place to start, with this in mind enjoy this congress and make it to your own success story. I am looking forward to meet you in Arnhem.



With best regards

**W. Baumgärtner**



## The President of the European College of Veterinary Pathologists

It is a great pleasure to welcome you to our annual ESVP/ECVP meeting, jointly organised this year with our sister society and college specialised in Veterinary Clinical Pathology.

This is a unique opportunity for all of us to benefit from an outstanding programme prepared by the local organizer and the Scientific committee. Their commitment and enthusiasm in organising this conference covering a multitude of interesting and relevant aspects of anatomic and clinical pathology has been nothing short of impressive and I hope there will be many lively discussions that will advance our disciplines.

The beautiful Burgers' zoo as our venue could not be more in line with the topics of this year's congress covering many aspects including zoo and wildlife diseases and will be a perfect place to meet colleagues, network and make new friends. Please share your experience and knowledge and learn about the latest advances in veterinary pathology.

This is also a good reminder of how precious and critical the pathologists' and clinical pathologists' contributions are to prevent and protect wildlife but also farm and companion animals from so many various diseases, as well as ourselves from well-known or emerging zoonoses.

I am looking forward to listening to the various keynote lectures, presentations and workshops, which do cover so many important aspects of both disciplines, as well as meeting you in Arnhem.



Kind regards

**Pierre Maliver**



## The Chair of the Foundation Joint Congress 2019 of Veterinary Pathology and Veterinary Clinical Pathology

I would like to welcome you to this first joined congress of ECVF/ECVCP/ESVP/ESVCP in Burger's Zoo in Arnhem. When we two years ago first started as organizing committee to organize a Joined Veterinary Pathology - Veterinary Clinical Pathology Congress we had some doubts about the success of it. Now, when I write this welcome in the summer of 2019, we already know that this first joined congress will be a success. We tried to offer an interesting programme in which we put several joined sessions in order to have maximal interaction between the two specialties. Apparently you have recognized this as the number of registrations is already more than we had expected. I am therefore absolutely certain that this first joined congress will not be the last one.

Of course we also think that the fact that the conference is held in a zoo is helping. We tried to put this environment also in the programme. Disadvantage of the location could be that you are not able to get out in between the programme very easily. But we are confident that both the congress programme and the zoo are interesting enough to counterbalance this.

I hope you will enjoy the Congress, meet friends and colleagues, have a chance to discuss College business with the Board members and also see some of the zoo.



**Erik Teske**

# LOCAL ORGANIZING COMMITTEE

This year the European colleges and societies of these two disciplines joined forces to organize a meeting covering various aspects of our work as pathologists, covering topics from molecular research to effects of disease on wildlife conservation. One aim of this congress is to start or foster exchange between anatomic and clinical pathologists. Such interactions will pave the way for interesting discussions that hopefully will advance and further our disciplines. Although the venue calls for emphasis on zoo animals and wildlife, there will also be plenty of topics dealing with companion and farm animals as well as general topics related to pathogenesis, diagnosis and other aspects of pathology. There will be key note lectures, joint lectures, pathology in practice sessions, and oral presentations.

Naomi de Bruijn  
Suzanne Hoogland  
Marrit Prins

Reinie Dijkman  
Margreet Ploeg  
Erik Teske

Andrea Gröne  
Klaas Peperkamp  
Erik Weerts





# PRECONGRESS DAY

Wednesday 25 September 2019

Kilimanjaro Lodge (B)

- 09.00-10.30** How to set up a Research Project, A.Gruber (D)  
**11.00-12.30** How to critically evaluate Scientific Publications, E.Teske (NL)  
**13.45-15.15** Molecular Genetic Techniques Explained I,  
A.de Bruin (NL) and B. Westendorp (NL)  
**15.45-16.30** Molecular Genetic Techniques Explained II,  
A.de Bruin (NL) and B. Westendorp (NL)





# PROGRAMME AT A GLANCE

## Thursday 26 September 2019

Thursday 26 September 2019

	Kilimanjaro Lodge	Mount Kenia Lodge	Auditorium	Knoefzaal
09.00			Keynote: Genetic Biomarkers in Personalized Cancer Treatment	
09.45			Keynote: Biomarkers in Inflammatory Disease	
10.30	Break and Posters			
11.00	Value of Pathology in a Surveillance System	Oral Presentations	Tumor Classification: Hematopoietic Tumors. Role of Pathology and Clinical Pathology	
11.45	Case examples and Carrier Pathways in Toxicological Pathology	Oral Presentations		
12.30	Lunch			12.45 European Coalition
13.45	Role of Flow Cytometry in Hematopoietic Tumors	Oral Presentations	Genetic Disorders in Cattle	Oral Presentations and Poster Flash (Lab.Animals & Exp.)
14.30	FCM Case presentations	Oral Presentations	Pathology in Practice: Female Repro Mysteries	Proteomics in Veterinary Sciences
15.15	Break and Posters			
15.45	Oral Presentations and Poster Flash (Small Animals)	Oral Presentations	One Health: Neglected Fungal Zoonoses, Hidden Threats to Man and Animals	
16.30		Oral Presentations	One Health: Aspergillus and Aspergillosis in Wild and Domestic Animals, a Global Health Concern with Parallels to Human Disease	
17.30	ECVCP Annual General Meeting		ECVP Annual General Meeting	

Preview Mystery slides in Tree Tops Lodge (D)

  Clinical Pathology
   Veterinary Pathology
   Joint meeting

# Friday 27 September 2019

	Kilimanjaro Lodge	Mount Kenia Lodge	Auditorium	Knoefzaal
09.00			Keynote: Pathology in Marine Mammal Conservation	
09.45		Oral Presentations	Keynote: Incorporating Path. into Conser. Programs	
10.30	Break and Posters			
11.00	From Pandas to Pangolins: An Approach to Analyzing Blood Samples from Weird & Wonderful Animals	Correlation of ClinPath Data Organ Tox. & Pathophys.	Pathology in Practice: Oral Pathology in Dogs and Cats - Pitfalls and Challenges	Oral Presentations and Poster Flash (Large Animals)
11.45	Go Wild for Wildlife: Role of Clinical Pathology in Animal Conservation	Variation of ClinPath Biomarkers in Preclin. Tox. Studies	Poultry Disease Monitoring: What's in it for the Pathologist?	ECVP- Examination Information Session
12.30	Lunch			
13.45	Oral Presentations and Poster Flash (Exotics and Wildlife)	Oral Presentations	Liquid Biopsies/ Cell-free DNA	
14.30	Oral presentations and Poster Flash (Educational and Forensic)	Oral Presentations		
15.15	Break and Posters			
15.45	Liquid Biopsies: The Potential Role of EVs as Biomarkers in Vet. Med	Mystery Slides Clin Path	Pathology in Practice: Cases from the Wild Slide	
16.30	Biology of Urinary Exosomes and Biomarkers of Renal Disease		Computational Pathology: Towards Precision Medicine	
17.30	ESVCP Annual General Meeting			ESVP Annual General Meeting
19.00	Congress Dinner			

09.00-15.15 Preview Mystery Slides in Tree Top Lodge (D)

# Saturday 28 September 2019

	Kilimanjaro Lodge	Mount Kenia Lodge	Auditorium
09.00			What's Your Diagnosis? The same Case seen by a Clinical and an Anatomic Pathologist Worth getting up for!
10.30	Break		
11.00	Reticulocyte Indices: How do they work and what do they mean?	Case Presentations	Exotic disease: Rift Valley Fever
11.45	Chronic Kidney Disease - Bone and Mineral Disease		Vertical transmission of zoonotic arboviruses
12.30	Lunch		
13.45		Case Presentations	Education Session: Workfloor Assessment
15.15	End of Congress		

Clinical Pathology
  Veterinary Pathology
  Joint meeting



Saturday 28 September 2019

# SCIENTIFIC PROGRAMME

**Thursday 26 September 2019**

## Auditorium (F)

- 09.00-09.45 Keynote: Genetic Biomarkers in Personalized Cancer Treatment,**  
E. Cuppen (NL)
- 09.45-10.30 Keynote: Biomarkers in Inflammatory Disease,** D. Eckersall (UK)  
Sponsored by: European Society of Toxicologic Pathology
- 11.00-12.30 Joint Session: Tumor Classification: Hematopoietic Tumors. Role of Pathology and Clinical Pathology,** L. Sharkey (USA) & N. Robinson (USA)
- 13.45-14.30 Genetic Disorders in Cattle,** J.S. Agerholm (DK)
- 14.30-15.15 Pathology in Practice: Abortion Mysteries,** N. Borel (CH)
- 15.45-16.30 Joint Session: One Health: Neglected Fungal Zoonoses, Hidden Threats to Man and Animals,**  
S. Seyedmousavi (USA)  
Journal of Comparative Pathology Plenary Lecture
- 16.30-17.15 Joint Session: One Health: Aspergillus and Aspergillosis in Wild and Domestic Animals, a Global Health Concern with Parallels to Human Disease,** S. Seyedmousavi (USA)
- 17.30-19.00 ECVP General Meeting**

## Kilimanjaro Lodge (B)

- 11.00-11.45 Value of Pathology in a Surveillance System,** Y. Schukken (NL)
- 11.45-12.30 Case Examples and Carrier Pathways in Toxicological Pathology,**  
J. Funk (D)
- 13.45-14.30 Role of Flow Cytometry in Hematopoietic Tumors,** S. Comazzi (I)
- 14.30-15.15 FCM Case presentations,** L.Sharkey (USA) & S.Comazzi (I)
- Oral Presentations and Poster Flash (PF) - Small Animals**
- 15.45-15.55 22 SEARCHING FOR DIAGNOSTIC BIOMARKERS DISCRIMINATING EARLY CANINE CUTANEOUS EPITHELIOTROPIC LYMPHOMA AND IMMUNE-MEDIATED DERMATOSES BY RNA SEQUENCING,** M. Dettwiler

- 15.55-16.05 **32** MITOTIC COUNT IN CANINE CUTANEOUS MAST CELL TUMOURS – NOT ACCURATE BUT REPRODUCIBLE, C.A. Bertram
- 16.05-16.15 **78** STEREOLOGICAL ESTIMATION OF MEAN NUCLEAR VOLUME AS A PROGNOSTIC FACTOR IN CANINE MAST CELL TUMOURS, P. Faisca
- 16.15-16.25 **84** PERITUMORAL MUM1+ PLASMA CELLS ARE ASSOCIATED WITH POOR OUTCOMES IN CATS WITH INVASIVE MAMMARY CARCINOMA, SPONTANEOUS IMMUNOCOMPETENT ANIMAL MODELS OF BREAST CANCER, F. Nguyen
- 16.25-16.35 **103** PROGNOSTIC VALUE OF HISTOLOGICAL FACTORS AND CHROMOSOMAL AMPLIFICATIONS IN CANINE ORAL MELANOMAS, F. Chocteau
- 16.35-16.45 **118** CANINE MAMMARY EPITHELIOSIS: THE HIDDEN THREAT, G. Valdivia
- 16.45-16.55 **185** DOG-CANCER-PANEL – TARGETED MASSIVE PARALLEL SEQUENCING DETECTS SOMATIC AND GERMLINE MUTATIONS, K. Steiger
- 16.55-17.15 **79PF** THE APPLICATION OF ARRAY COMPARATIVE GENOMIC HYBRIDIZATION IN ARCHIVAL CANINE ORAL MELANOMA REVEALS SIGNIFICANTLY ENRICHED PATHWAYS, G. Brocca
- Poster flash **71PF** IMMUNOHISTOCHEMICAL EXPRESSION OF BASAL CELL AND UROTHELIAL MARKERS (P63, UROPLAKIN III) IN NON-NEOPLASTIC AND NEOPLASTIC CANINE PROSTATE TISSUE, S. de Brot
- 3 min/flash **90PF** FURTHER IMMUNOHISTOCHEMICAL AND MOLECULAR ANALYSES AND MOLECULAR PHENOTYPE OF MMTV-LIKE-POSITIVE FELINE MAMMARY CARCINOMAS, F. Parisi
- 92PF** FLUID BIOMARKERS AND THEIR VALIDATION VIA PATHOLOGICAL ALTERATIONS IN AGED DOGS WITH OR WITHOUT COGNITIVE STATUS OF THE CANINE COUNTERPART OF AD, I. Stylianaki
- 93PF** CANINE INVERTED PAPILOMA: IMMUNOLOCALISATION, GENOTYPING AND IN-SITU-LOCALISATION OF ASSOCIATED CANINE PAPILOMAVIRUSES (CPVS), R. Verin
- 177PF** FELINE IMMUNODEFICIENCY VIRUS-ASSOCIATED MYOPATHY IN CATS: AN AUTOIMMUNE DISORDER?, F. Prisco
- 192PF** SIALYL-TN ANTIGEN- A SWEET PREDICTOR OF GASTRIC CANCER PROGRESSION IN DOGS, I. Amorim

# Thursday 26 September 2019

## Mount Kenia Lodge (A)

### 11.00-11.45 Oral Presentations – Clinical Pathology

1. PRETREATMENT LEUKOCYTE RATIOS AS PREDICTORS OF OUTCOME IN CANINE DIFFUSE LARGE B-CELL LYMPHOMA, *O. Skor*
2. SIEMENS' ATELICA CH 930 CHEMISTRY ANALYSER: UNIQUE OPTIMISATION FOR VETERINARY AND PRE-CLINICAL TOXICOLOGY LABORATORIES, *P.J. O'Brien*
3. SELECTIVE BINDING TO F(AB')<sub>2</sub> AND FC-FRAGMENTS BY CANINE ANTI-MOUSE ANTIBODIES, *D. Bergman*

### 11.45-12.30 Oral Presentations – Clinical Pathology

4. ACIDIFICATION OF EQUINE URINE: IS IT REQUIRED BEFORE MEASUREMENT OF ION CONCENTRATIONS?, *S. Lapsina*
5. COMPARISON OF CANINE URINE SPECIFIC GRAVITY MEASUREMENT BETWEEN VARIOUS REFRACTOMETERS IN A CLINICAL SETTING, *K. du Preez*
6. CORRELATION BETWEEN SYSTEMIC INFLAMMATION AND URINE PROTEIN: CREATININE RATIO IN CATS, *E. Dobson*

### 13.45-14.30 Oral Presentations – Clinical Pathology

7. CANINE BRUCELLOSIS IN THE NETHERLANDS, *N. Willems*
8. OXIDATIVE BURST AND PHAGOCYTIC ACTIVITIES OF PHAGOCYTIC CELLS IN CANINE PARVOVIRAL ENTERITIS, *K. du Preez*
9. PREVALENCE OF CYTAUXZOOM FELIS IN EASTERN KANSAS, A PRELIMINARY REPORT, *Y. Wikande*

### 14.30-15.15 Oral Presentations – Clinical Pathology

10. COMBINED HORMONE TESTING TO IMPROVE DIAGNOSTIC STRATEGY OF EQUINE PITUITARY PARS INTERMEDIA DYSFUNCTION: A STUDY ON 309 HORSES, *N. Soetart*
11. EFFECTS OF A SINGLE DOSE DEXAMETHASONE ON BIOCHEMICAL ANALYTES IN HORSES, *A. Hillström*
12. INVESTIGATION OF PARAOXONASE-1 ACTIVITY AS DIAGNOSTIC MARKER IN HORSES WITH EQUINE METABOLIC SYNDROME, *G. Rossi*

### 15.45-16.30 Oral Presentations – Clinical Pathology

13. "SHOULD I SPEND MY TIME COUNTING MAST CELLS?" - PRELIMINARY RESULTS CONCERNING MAST CELL

QUANTIFICATION IN CYTOLOGICAL SPECIMENS FOR THE EVALUATION OF NODAL METASTASIS IN MAST CELL TUMOR-BEARING DOGS, *M. Gambini*

**14.** ACCURACY OF FINE NEEDLE PUNCTURE AND IMPRINT CYTOLOGY FOR DIAGNOSING CANINE SPLENIC LESIONS, *R. Mischke*

**15.** AUTOMATABLE, IMAGE-BASED, CYTOMORPHOMETRIC DIAGNOSIS OF CANINE LYMPHOMA, *J. Pourrat*

**16.30-17.15 Oral Presentations – Clinical Pathology**

**16.** AUTOMATED SCORING OF EXERCISE-INDUCED PULMONARY HEMORRHAGE (EIPH) IN EQUINE BRONCHOALVEOLAR LAVAGE CYTOLOGY, *C.A. Bertram*

**17.** CIRCULATING MICROFILARIA DETECTION IN CANINE EDTA BLOOD USING LENS-FREE TECHNOLOGY, *T. Lavabre*

**17.30-19.00 ECVCP General Meeting**

**Knoefzaal (G)**

**12.45-13.45 European Coalition of Veterinary Pathology Societies**

**Oral Presentations and Poster Flash (PF) - Laboratory Animals**

**13.45-13.55 11** FUNCTIONAL GENETIC SCREENS TO DISSECT THE ESSENTIALS OF DISEASE, *S. Rottenberg*

**13.55-14.05 16** THEILER'S MURINE ENCEPHALOMYELITIS VIRUS INFECTION AS MODEL FOR VIRUS-INDUCED LESIONS IN THE CENTRAL AND PERIPHERAL NERVOUS SYSTEM, *F. Hansmann*

**14.05-14.15 148** CANINE AND FELINE MAMMARY TUMORS: IN VITRO STUDY OF THE AUTOCRINE EFFECT OF EXTRACELLULAR VESICLES ISOLATED BY ULTRACENTRIFUGATION AND SIZE EXCLUSION CHROMATOGRAPHY, *A. Sammarco*

**14.15-14.30 54PF** CLASSIFICATION AND GRADING OF MELANOCYTIC LESIONS IN A MOUSE MODEL OF NRAS-DRIVEN MELANOMAGENESIS, *E. Radaelli*

**3 min/flash 68PF** DIFFERENTIAL CHEMOKINE RESPONSES IN THE MURINE BRAIN FOLLOWING EXPERIMENTAL WEST NILE VIRUS INFECTION, *T. Floyd*

**142PF** MOUSE PREPUTIAL GLAND ABSCESSSES: AN OLD BUT ACTUAL PROBLEM; ETIOLOGY, PATHOLOGY AND MANAGEMENT, *M. de Mik-van Mourik*



## Thursday 26 September 2019

**149** PF MONITORING UNDIFFERENTIATED AND POTENTIALLY MALIGNANT HUMAN PLURIPOTENT STEM CELLS FOR CLINICAL APPLICATIONS, D. Salvatori

**14.30-15.15** **Proteomics in Veterinary Sciences**, D. Eckersall (UK)

### Canopy Lodge (C)

**13.45-15.15** **Workshop (Extra Fee): The Zoo from a Pathologist's Perspective I**, M. Kik (NL) and H. Luten (DVM Burgers Zoo)

**15.45-17.15** **Workshop (Extra Fee): The Zoo from a Pathologist's Perspective II**, M. Kik (NL) and H. Luten (DVM Burgers Zoo)



# Friday 27 September 2019

## Auditorium (F)

- 09.00-9.45 Key Note: Pathology in Marine Mammal Conservation**, J. St Leger (USA)
- 09.45-10.30 Key Note: Incorporating Pathology into Conservation Programs: from the FIELD to the LAB and back**, K. Terio (USA)
- 11.00-12.30 Pathology in Practice: Oral Pathology in Dogs and Cats -Pitfalls and Challenges**, N. Meertens (NL)
- 11.45-12.30 Poultry Disease Monitoring: What's in it for the Pathologist?**, N. De Bruijn (NL)
- 13.45-15.15 Joint Session: Liquid Biopsies/Cell-free DNA**, E. Schuurung (NL)  
Sponsored by: Euregio Laboratory Services
- 15.45-16.30 Pathology in Practice: Cases from the Wild Slide**, D. McAloose (USA)
- 16.30-17.15 Computational Pathology: Towards Precision Medicine**, A. Janowczyk (CH)

## Kilimanjaro Lodge (B)

- 11.00-11.45 From Pandas to Pangolins: An Approach to Analyzing Blood Samples from Weird & Wonderful Animals**, E. Hooijberg (SA)
- 11.45-12.30 Go Wild for Wildlife: Role of Clinical Pathology in Animal Conservation**, E. Hooijberg (SA)
- Oral Presentations and Poster Flash (PF) - Exotics and Wildlife**
- 13.45-13.55 29** RETROSPECTIVE REVIEW OF TOXOPLASMOSIS IN ZOO SPECIES BETWEEN 2003 AND 2019, D. Denk
- 13.55-14.05 64** TARGETED PROTEOMICS FOR INSIGHT INTO CARDIOVASCULAR DISEASE IN GREAT APES, K. Baiker
- 14.05-14.15 176** OF FROG AND TOAD HERPESVIRUS: A MATTER OF SKIN?, F. Origi
- 14.15-14.30 28PF** HISTOLOGICAL LESIONS IN EUROPEAN BADGERS (MELES MELES) WITH AND WITHOUT MYCOBACTERIOSIS , D. Corbetta
- Poster flash 3 min/flash 75PF** USUTU VIRUS INFECTION AND PLASMODIUM CO-INFECTION IN BLACKBIRDS (TURDUS MERULA) IN THE NETHERLANDS FROM 2016 TO 2018, G. Giglia
- 94PF** TOWARDS IMMUNOCOMPETENT IN VIVO MODELS OF USUTU VIRUS INFECTION, M. Garigliany

## Friday 27 September 2019

**108PF** HISTOLOGICAL LESIONS AND VIRUS DETECTION IN RATS, BANK VOLES AND MICE EXPERIMENTALLY INFECTED WITH VARIEGATED SQUIRREL BORNAVIRUS 1, *D. Nobach*

### **Oral Presentations and Poster Flash (PF) - Educational and Forensic Sketch**

- 14.30-14.35** **190PF** CAUSES AND MANNERS OF DEATH OF ONE-HUNDRED  
**Poster flash** ALLEGED ANIMAL CRUELTY CASES DURING 2011–2016:  
**3 min/flash** THE DEVELOPMENT OF VETERINARY FORENSIC PATHOLOGY IN  
TAIWAN, *W. Huang*
- 14.35-14.45** **159** VIRTUAL PATHOLOGY ROUNDS – A BRIDGE BETWEEN  
PATHOLOGISTS, CASES, STUDENTS, TEACHING AND TECHNOLOGY,  
*P. Bolfà*
- 14.45-14.55** **167** DIATOM TEST AND INTRAPULMONARY AQUAPORINS  
EXPRESSION AS NEW TOOLS FOR THE DIAGNOSIS OF DROWNING  
IN VETERINARY FORENSIC PATHOLOGY, *G. Piegari*
- 14.55-15.15** **205** THE ECVP CERTIFICATE IN FORENSIC VETERINARY  
PATHOLOGY (CFVP) – A NEW INITIATIVE TO ENSURE QUALITY  
CONTROLLED PROFESSIONAL SERVICES TO THE SOCIETY, *A.Kipar*
- 15.45-16.30** **Liquid Biopsies: The Potential Role of EVs as Biomarkers in  
Veterinary Medicine**, *L. Bongiovanni (NL)*
- 16.30-17.15** **Biology of Urinary Exosomes and Biomarkers of Renal Disease**,  
*T. Williams (UK)*
- 17.30-19.00** **ESVCP General Meeting**



## Mount Kenia Lodge (A)

### 09.45-10.30 **Oral Presentations – Clinical Pathology**

**18.** CHANGES OF CANINE LEUKOCYTE CONCENTRATIONS AFTER TREATMENT WITH PREDNISOLONE, *H. Tvedten*

**19.** REPEAT PATIENT TESTING AS A QUALITY CONTROL METHOD FOR THE ABAXIS VETSCAN HM5 POINT-OF-CARE HEMATOLOGY ANALYZER, *Y. Rautenbach*

**20.** HEMATOLOGIC ABNORMALITIES IN ROAN CALVES (HIPPOTRAGUS EQUINUS) WITH EXPERIMENTAL PATHOGENIC THEILERIOSIS, *C.J. Clift*

### 11.00-12.30 **Correlation of ClinPath Data with Target Organ Toxicity & Pathophysiology**, *A. Provencher (CAN)*

Sponsored by: Charles River

### 11.45-12.30 **Spurious Variation of ClinPath Biomarkers in Preclinical Toxicology Studies**, *P. Cotton (UK)*

### 13.45-14.30 **Oral Presentations - Clinical Pathology**

**21.** HEMATOLOGIC ABNORMALITIES IN ROAN CALVES (HIPPOTRAGUS EQUINUS) WITH EXPERIMENTAL PATHOGENIC THEILERIOSIS, *S. Cremer*

**22.** PRESENCE OF MONOCLONAL GAMMOPATHY IN CANINE NODAL DIFFUSE LARGE B-CELL LYMPHOMA, *O. Skor*

**23.** DETERMINATION OF BLOOD GROUPS DEA 1, DEA 4, DEA 5, DAL, AND KAI 1/2 IN DIFFERENT CANINE BREEDS IN A VETERINARY DIAGNOSTIC LABORATORY, *A. Ebelt*

### 14.30-15.15 **Oral Presentations - Clinical Pathology**

**24.** DETERMINATION OF BLOOD GROUPS DEA 1, DEA 4, DEA 5, DAL, AND KAI 1/2 IN DIFFERENT CANINE BREEDS IN A VETERINARY DIAGNOSTIC LABORATORY, *C. Trumel*

**25.** EVALUATION OF THE CALIBRATED AUTOMATED THROMBOGRAM ASSAY AND PLASMA THROMBOELASTO-GRAPHY FOR DETECTION OF HYPERCOAGULABILITY IN HORSES WITH GASTROINTESTINAL DISEASE, *M.L. Honoré*

**26.** MEASUREMENTS OF ENDOGENOUS THROMBIN POTENTIAL USING THE CAT METHOD IN CATS: REFERENCE VALUES AND INFLUENCE OF THE DIRECT FACTOR XA INHIBITOR APIXABAN, *R. Mischke*

### 15.45-17.15 **Mystery Slides Clinical Pathology**, *C. Masserdotti (I)*

# Friday 27 September 2019

## Knoefzaal (G)

### Oral Presentations and Poster Flash (PF) - Large Animals

- 11.00-11.10 189** AN OUTBREAK OF BORDER DISEASE-LIKE SYNDROME IN SHEEP ASSOCIATED WITH A BVDV-II-CONTAMINATED ORF VACCINE, *J. Asín*
- 11.10-11.20 113** LOCAL IMMUNE RESPONSES AFTER SKIN VACCINATION IN NEONATE AND ADULT PIGS WITH DIFFERENT TOLL-LIKE-RECEPTOR AGONISTS AS ADJUVANT, *S. Vreman*
- 11.20-11.30 153** GENERATION AND IN VIVO EVALUATION OF PORCINE EPIDEMIC DIARRHOEA VIRUS CHIMERA CARRYING THE SPIKE PROTEIN OF PORCINE TRANSMISSIBLE GASTROENTERITIS VIRUS, *I.B. Veiga*
- From 11.30** **40PF** DETECTION OF PORCINE CIRCOVIRUS 3 IN STILLBORN PIGLETS WITH MULTI-SYSTEMIC INFLAMMATION, *T. Floyd*
- Poster flash** **96PF** THE IL6-STAT3 SIGNALING PATHWAY: A POTENTIAL ROLE IN PATHOGENESIS OF OVINE PULMONARY ADENOCARCINOMA, *C. Toma*
- 3 min/flash** **122PF** OF FRENCH FRIES AND HORSES: BIOCHEMICAL CHANGES IN EQUINE INTERVERTEBRAL DISC DEGENERATION, *W. Bergmann*
- 102PF** EVALUATION OF LESIONS AND THE DISTRIBUTION OF VIRAL ANTIGEN IN DOMESTIC PIGS INOCULATED BY INTRANASAL ROUTE WITH DIFFERENT DOSES OF AFRICAN SWINE FEVER ISOLATE KEN05/TK1, *T. Floyd*
- 11.45-12.30** **ECVP-Exam Information session**, *J. van den Brand, R. Blundell*
- 17.30-19.00** **ESVP General Meeting**

## Canopy Lodge (C)

- 09.00-10.30** **Workshop (Extra Fee-full) Part 1: Bone Marrow Evaluation Morning**, *L. Sharkey (USA) and N. Bauer (D)*
- 11.00-12.30** **Workshop (Extra Fee-full) Part 2: Bone Marrow Evaluation Morning**, *L. Sharkey (USA) and N. Bauer (D)*
- 13.45-15.15** **Workshop (Extra Fee-full) Part 1: Bone Marrow Evaluation afternoon**, *L. Sharkey (USA) and N. Bauer (D)*
- 15.45-17.15** **Workshop 3 (Extra Fee-full) Part 2: Bone Marrow Evaluation afternoon**, *L. Sharkey (USA) and N. Bauer (D)*

# Saturday 28 September 2019

## Auditorium (F)

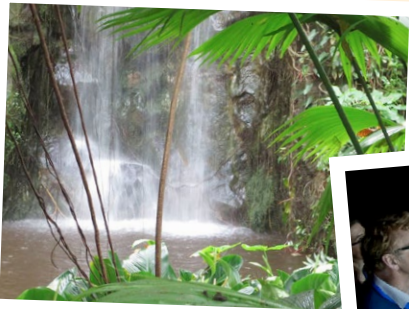
- 09.00-10.30** **Joint Session: What's Your Diagnosis? The same Case seen by a Clinical and an Anatomic Pathologist.**  
**Worth getting up for!**  
E.Weerts, E. Teske, D.Denk, M Keresztes, M. Henrich
- 11.00-12.30** **Exotic Disease: Rift Valley Fever, R.Ullrich (D)**  
Sponsored by: Wageningen University & Research
- 11.45-12.30** **Vertical transmission of zoonotic arboviruses, J. Kortekaas (NL)**
- 13.45-15.15** **Joint Session: Education Session: Workflow Assessment,**  
A.Boswood (UK)
- 15.15** **End of Congress**

## Kilimanjaro Lodge (B)

- 11.00-12.30** **Reticulocyte Indices: How do they work and what do they mean?,**  
A.Moritz (D)
- 11.45-12.30** **Chronic Kidney Disease - Bone and Mineral Disease, H. van den Broek (NL)**

## Mount Kenia Lodge (A)

- 11.00-12.30** **Case Presentations, H. Tvedten (S)**
- 13.45-15.15** **Case Presentations, H. Tvedten (S)**



# FLOORPLAN ROOMS

**REGISTRATION:** Before the entrance of the Foyer **G**

**Speaker ready room:** **D**

**Workshops:** **C**

**Posters:** **E** and hallway

**Key Note Lectures:** **F**

**Joint Presentations:** **F**

**Vet Clin Path Invited Speakers:** **B**

**Vet Clin Path Oral Presentations:** **A**

**Vet Path Invited Speakers:** **F** and **G**

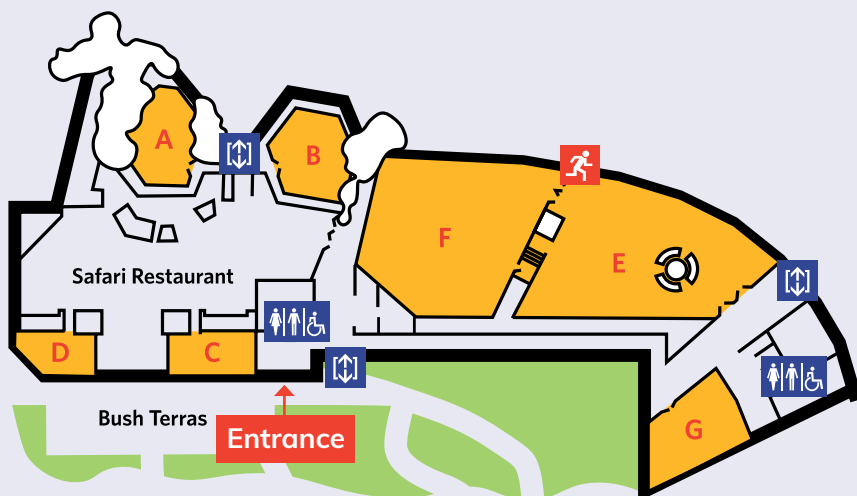
**Vet Path Oral Presentations and Poster Flashes:** **B** and **G**

**Preview Mystery Slides Clinical Pathology:** **D** (Thursday and Friday)

Morning Break and Posters: 10.30-11.00

Lunch and Exhibition: 12.30-13.45

Afternoon Break and Posters: 15.15-15.45



**A** Mount Kenia Lodge

**B** Kilimanjaro Lodge

**C** Canopy Lodge

**D** Tree Tops Lodge

**E** Foyer

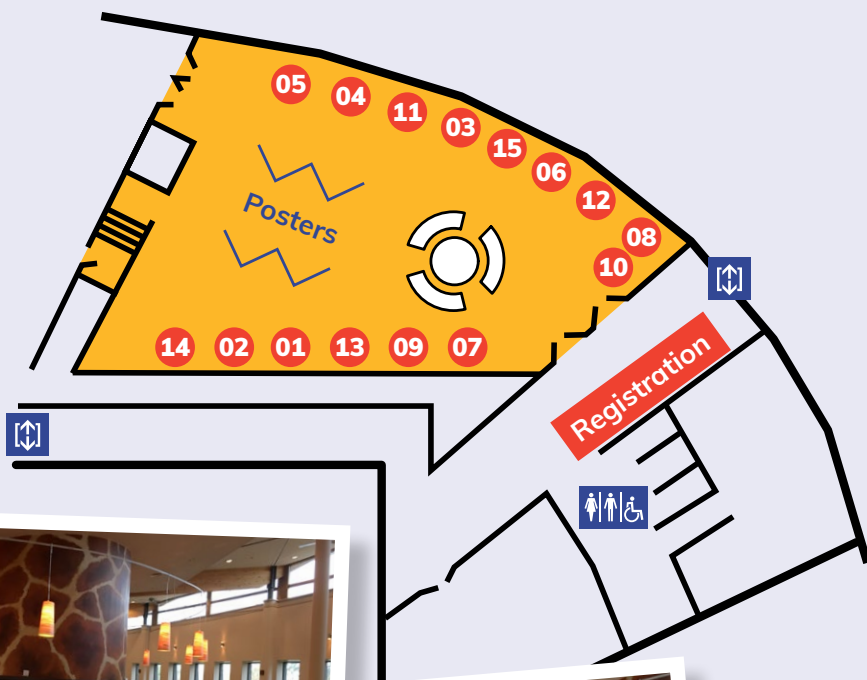
**F** Auditorium

**G** Knoefzaal



# EXHIBITION

- |   |   |
|---|---|
| <b>01</b> Gezondheidsdienst voor Dieren | <b>09</b> Meat advise BV                    |
| <b>02</b> 3DHISTECH Kft.                | <b>10</b> Wageningen Bioveterinary Research |
| <b>03</b> Laboklin                      | <b>11</b> Idexx                             |
| <b>04</b> Leica Biosystems              | <b>12</b> Agilent                           |
| <b>05</b> Sakura                        | <b>13</b> Veterinary Biomarkers, Inc.       |
| <b>06</b> Sectra                        | <b>14</b> Tridelta                          |
| <b>07</b> Stago                         | <b>15</b> Diapath                           |
| <b>08</b> ESTP                          |   |



# SOCIAL PROGRAMME

## Ice-breaker Welcome Reception

**Wednesday 25 September 2019, 18.00 - 20.00**

### Foyer Safari Meeting Center

The congress invites all attendees to join us and exploit this opportunity to network, meet old friends and colleagues, and to make new ones. So, join us for what is sure to be a great experience highlighting the ease and Burgundian Dutch way. During the reception we will be welcomed by the City of Arnhem and by the Royal Burgers' Zoo, so make sure to be on time for the reception.

## Congress Dinner & Dance Party

**Friday 27 September 2019, 19.00 - 00.30**

### Auditorium, Ocean, Zebra stables and the Safari Restaurant

Please join us for the Gala dinner, an excellent occasion to enjoy good food, classic wines and old or new friends. The unique and beautiful ambience of the room will add to the magic of the night as the dishes are served and the jokes will flutter around while the background music plays. We are 100% sure this will be the night to remember!

- 19.00** Aperitive in the Safari Meeting Centre Foyer
- 19.15** The evening starts with a short concert provided by Syrinx, the Collegium Musicum Veterinarium music ensemble.
- 19.45** Walking starters through the Ocean and Zebra stables
- 20.30** Dinner in the Safari Restaurant with a view over the Savanna
- 22.30** Dance party
- 00.30** Closing



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## **Royal GD, a century of experience and passion**

Since its foundation in 1919 when Dutch farmers and dairy organisations joined forces to combat animal diseases, GD has focused on animal health. Today we still work with the same passion, for the same goal, backed by a century of experience. GD is a leading organisation in animal health and animal production. With our state-of-the-art veterinary laboratories and research facilities, and with our veterinary knowledge and expertise we support our customers worldwide. Clients come to us for high quality and independent consultancy, contract research, and animal health programmes. Good health is in the interests of animals and contributes to sustainable farming. This meets the goals of a society that wants environmentally friendly food that is safe and healthy. At GD we have the knowledge and passion to support these goals.

[www.gdanimalhealth.com](http://www.gdanimalhealth.com)



## 3DHISTECH

3DHISTECH is dedicated to providing clinical pathologists, researchers and universities with digital pathology solutions to facilitate quick and accurate diagnostics, supporting medical discoveries and fostering education. The way forward for pathology is digital. Working with digital slides enables faster, easier and better quality diagnosis, which could lead to a faster healing process. Founded in 1996, 3DHISTECH is the first European manufacturer of digital pathology devices and one of the global market leaders with nearly 1500 systems sold. The entire company is dedicated to developing and manufacturing a wide range of PANNORAMIC® whole slide scanners, Track & Sign™ and CaseManager™ laboratory and pathology management, CaseViewer™ digital microscopy and QuantCenter™ image analysis software solutions. Further products include tissue microarray machinery. 3DHISTECH is the proud winner of several image quality and scanner speed awards at International Scanner Contests. Our mission is to fully digitalize the traditional pathology workflow so that it can adapt to the ever-growing demands of healthcare today. We believe our concept of virtual slide and its applications offers you everything you need in modern pathology. What differentiates us from competition is our exclusive focus on digital pathology: our human and financial resources are all committed to the single goal of continuously developing digital pathology solutions.

**[www.3dhistech.com](http://www.3dhistech.com)**

# GENERAL INFORMATION

## Address details

### Royal Burgers Zoo - Safari Meeting Centre

Antoon van Hooffplein 1  
6816 SH Arnhem, the Netherlands

## Registration desk

Please register before entering any of the congress lectures or exhibition. The registration area is in the foyer of the Safari Meeting Centre and will be open for registration:

Wednesday 25 September 2019:	<b>08.00-18.00</b>
Thursday 26 September 2019:	<b>08.00-17.30</b>
Friday 27 September 2019:	<b>08.30-17.00</b>
Saturday 28 September 2019:	<b>08.30-14.45</b>

## Conference badges

All participants must wear the congress identification badge at all times during the event. Entrance to the zoo, meeting halls, labs and exhibition area **will not be permitted to any person without a badge!**

## Shuttle Service

There is bus transport in the morning and in the afternoon from and to the congress location to some hotels. The schedule is available at the registration desk.

## Congress evening

Please note that there will be no extra bus shuttle to the hotels between the end of the session and the congress dinner. Upon registration you will receive a ticket for the sessions and congress dinner. We will collect the tickets before the dinner starts.

## Liability

Upon registration, participants agree that neither the Organizing Committee nor the Conference Secretariat can be subject to any liability concerning participation related activities. Participants should, therefore, organize their own (health/travel) insurance(s).

### Photo release

Upon registration, participants agree that they grant permission to the ECVP/ECVCP, ESVP/ESVCP and the ECVP-ECVCP joint Congress to use photographs and/or videos taken of the participant between 25 and 28 September 2019 at the Congress in Arnhem, the Netherlands in publications, new releases, online and in other communications related to the mission of the ECVP/ECVCP, ESVP/ESVCP and joint Congress.

### Certificate of Attendance

After filling in the questionnaire, you will be able to download a digital certificate of attendance as a PDF-file. You will receive a certificate of attendance **after** the congress by e-mail.

### Conference Secretariat

#### Pauwels Congress Organisers

Avenue Ceramique 222, 6221 KX Maastricht, The Netherlands  
T +31 (0) 43 325 05 21, E [info@pauwelspc.nl](mailto:info@pauwelspc.nl)

**pc**o PAUWELS  
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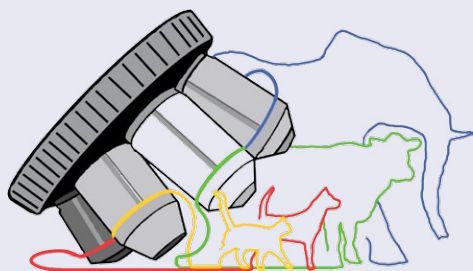




## NOTES

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**OF VETERINARY PATHOLOGY AND**  
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