



EAVPT
European Association for Veterinary
Pharmacology and Toxicology

EAVPT
European Association for Veterinary
Pharmacology and Toxicology

2-5 | 07 | 23

15th International Congress of the European Association for Veterinary Pharmacology and Toxicology

Bruges • Belgium

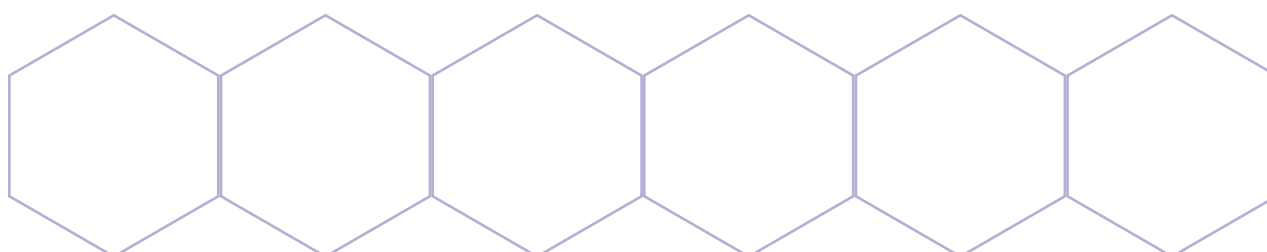
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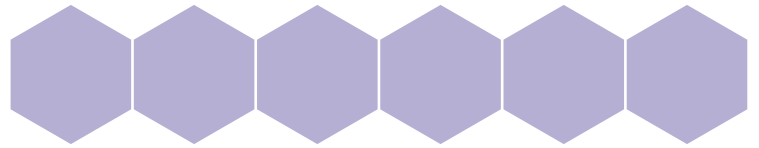
Our Health, Our Animals, Our Environment

Pre-congress events

Sunday, July 2

Place	Time	Workshop/symposium	Committee
4th floor	10:00 – 20:00	Preparation of sponsor exhibitions	
1st floor	09:00 – 13:00	Registration of workshops	
3rd floor – Meeting room 2	13:00 – 18:00	1. Workshop on Pharmacotherapeutic Modelling	Jonathan Mochel
3rd floor – Meeting room 1	13:00 – 18:00	2. Workshop on pharmacological education and teaching	Arno Werners
3rd floor – Meeting room 6	10:00 – 18:00	Clinical symposium on Cardiorenal Therapeutics	Jonathan Elliott
4th floor	10:00 – 18:00	Preparation of sponsor exhibitions	





Programme Congress

Sunday, July 2

Place	Time	Event/session	Supervisors
1st floor	12:00 – 15:00	Registration	
1st floor	18:00 – 18:30	Opening ceremony of the 15th EAVPT Congress	Lloyd Reeve-Johnson & Mathias Devreese
1st floor	18:30 – 19:15	Opening Plenary Session: One Health, Our Animals, Our Environment – the economics of health and scarcity in the context of a changing world	Lloyd Reeve-Johnson
4th floor	19:30 – 22:30	Ice breaking party	



Programme Congress

Monday, July 3

08:30 - 10:30

Regulation and harmonisation of the world in which we live

Chair: Arturo Anadon

1st floor - Auditorium A	08:30	I1	New regulations on veterinary medicinal products. Impact on veterinary medicine – Nancy De Briyne (BE)
	08:55	I2	The availability and use of antimicrobial agents – Estelli Hamelin (BE)
	09:20	I3	Environmental risk assessment of veterinary medicines: Current situation and future prospects – Garcia Carapeto (ES)
	09:45	I4	Regulatory challenges - My personal perspective – Marilyn Martinez (US)
	10:05	I5	Poultry feather analysis: A potential tool for assessing compliance with antimicrobial use policies? – Javiera Cornejo Kelly (CL)

08:30 - 10:30

Anaesthesia and Analgesia

Chair: Ludovic Pelligand

1st floor - Auditorium B	08:30	O1	Pharmacodynamics of fentanyl following transdermal patch application in horses – Rose Reynolds (US)
	08:45	O2	Use of paracetamol (a.k.a. acetaminophen) in Australian veterinary practice – Merran Govendir (AU)
	09:00	O3	Post-anesthetic pain scores in surgical and non-surgical equine patients: An observational study – Anna Krikorian (US)
	09:15	O4	Pharmacokinetics of bupivacaine after bilateral maxillary and inferior alveolar nerve blocks in adult cats – Paulo Steagall (HK)
	09:30	O5	Concentrations, pharmacokinetics and selected pharmacodynamics of morphine and its active metabolites following oral administration to horses – Heather Knych (US)
	09:45	O6	Pharmacokinetics of Meloxicam in green sea turtles (<i>Chelonia mydas</i>) – Saranya Poapolathep (TH)
	10:00	O7	Pharmacokinetics of dexmedetomidine in anaesthetized horses: Comparison between repeated subcutaneous administration and continuous rate infusion – Federica Di Cesare (IT)
	10:15	O8	Pharmacodynamics of 250mg/kg Gamma hydroxy butyric acid (GHB) administered intravenously in 6 pigs undergoing general anesthesia – Charlotte Cuyper (BE)

08:30 - 10:30

Translational research and medicine

Chair: Mathias Devreese

3 rd floor - Meeting 1+2	08:30	O9	Antibiotic tissue penetration in the septic piglet versus the child – Lessons learnt from microdialysis – Eline Hermans (BE)
	08:45	O10	The importance of preregistration for animal-based research – Bettina Bert (GE)
	09:00	O11	In vitro and in vivo effects of dapagliflozin on adenosine diphosphate induced platelet aggregation response in Göttingen minipigs - Lisbeth Højier Olsen (DK)
	09:15	O12	The pig as a translational animal model to explore a new concept in the treatment of sepsis, today's largest unmet medical need – Fëllanza Halimi (BE)
	09:30	O13	The pig as surrogate model for humans for the rational design of an invisible sensor for subcutaneous continuous glucose detection for type 1 diabetes management – Jeroen Carlier (BE)

10:30 - 11:15

Coffee Break (4th floor) & Poster Walk (1st floor)

Programme Congress

Monday, July 3

11:15 - 12:45
One Health: Regulation and harmonisation of the world in which we live
Chair: *Lloyd Reeve-Johnson*
1st floor - Auditorium A

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|-------|------------|---|
| 11:15 | I6 | Biosecurity in animal production to improve health and reduce antimicrobial use – <i>Jeroen Dewulf (BE)</i> |
| 11:40 | I7 | Disinfectants as cornerstones of one health approaches in veterinary medicine – <i>Pascal Sanders (FR)</i> |
| 12:05 | O14 | The failure of COVID-19 treatment with Ivermectin in humans was predictable with PK/PD analysis based on veterinary data – <i>Jean Henrottin (BE)</i> |
| 12:20 | O15 | Melaleuca armillaris nanoencapsulated against Methicillin resistant Staphylococcus aureus – <i>Daniel Buldain (AR)</i> |
| 12:35 | O16 | Prevalence of antimicrobial residues in broiler meat in Vietnam, Bangladesh and India: The one health poultry hub experience – <i>Ludovic Pelligand (UK)</i> |

11:15- 12:45
Veterinary pharmacology education: how to attain crucial competencies
Chairs: *Arno Werners & Martin Hawes*
1st floor - Auditorium B

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|-------|------------|--|
| 11:15 | I8 | Competency based learning in veterinary undergraduate curriculum: Lessons learned – <i>Theo van Haeften (NL)</i> |
| 11:40 | I9 | Prescribing and therapeutic decision-making as an essential competence in medical and veterinary education – <i>David Brinkman (NL)</i> |
| 12:05 | O17 | Using interactive clinical cases to enhance learning process of students in veterinary toxicology – <i>Moriceau Oniris (FR)</i> |
| 12:20 | O18 | History and evolution of a Journal Club specialized in veterinary pharmacology: an opportunity to learn and grow in a virtual and stimulating community – <i>Cristina Vercelli (IT)</i> |

11:15 - 12:45
Molecular Oncology
Chair: *Jonathan Elliott*
3rd floor - Meeting 1+2

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|-------|------------|---|
| 11:15 | O19 | DNA damage as a potential target in canine lymphoma treatment: a comparative transcriptomic evaluation of olaparib effects in two lymphoid cell lines – <i>Greta Mucignat (IT)</i> |
| 11:30 | O20 | The effect of ATR kinase inhibition on chlorambucil activity against canine lymphoma and leukemia cell lines – <i>Marta Henklewska (PL)</i> |
| 11:45 | O21 | CHK1 is an interesting target to defeat lymphoma/leukemia in dogs – <i>Beatriz Hernandez-Suarez (PL)</i> |
| 12:00 | O22 | PARP inhibition as a potential target for canine lymphoma and leukemia – <i>Aleksandra Pawlak (PL)</i> |
| 12:15 | O23 | Anti-tumor effect of trametinib in canine primary lung cancer organoids as a novel therapeutic agent – <i>Yomogi Sato (JP)</i> |

12:45 – 14:00 Lunch (4th floor) & Poster Walk (1st floor)

Programme Congress

Monday, July 3

14:00 - 16:00

Antimicrobials and alternatives

Chairs: Stefan Soback & Pierre-Louis Toutain

1st floor - Auditorium A

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|-------|------------|--|
| 14:00 | I10 | Antimicrobial therapy development: Issues and solutions –
<i>Stefan Soback (IL)</i> |
| 14:45 | I11 | Evolution of European Union legislation on antimicrobials: Objectives to be achieved and consequences for prescribers –
<i>Damien Bouchard (FR)</i> |
| 15:10 | O24 | In vitro porcine intestinal co-culture model to test antimicrobial alternatives in Escherichia coli and Salmonella enterica infection –
<i>Orsolya Farkas (HU)</i> |
| 15:25 | O25 | Whole transcriptome analysis of Clostridium perfringens treated with a plant-based feed additive – <i>György Csikó (HU)</i> |
| 15:40 | O26 | PK/PD informed dosage regimen for antimicrobial prophylaxis in companion animal surgery: from proof of concept to pipeline –
<i>Ludovic Pelligand (UK)</i> |

14:00 - 16:00

Parasiticides and the environment

Chairs: Richard Martin & Carlos Lanusse

1st floor - Auditorium B

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|-------|------------|---|
| 14:00 | I12 | Anthelmintics and ion-channels – <i>Richard Martin (US)</i> |
| 14:40 | I13 | Responsible use of anthelmintics in livestock: Pharmacology-based contribution to the management of drug resistance – <i>Carlos Lanusse (AR)</i> |
| 15:20 | O27 | Flea resistance to Fipronil: Confirmation of metabolic detoxification through innovative HPLC dosage within fleas – <i>Emilie Bouhsira (FR)</i> |
| 15:35 | O28 | Role of ABC transporters in anthelmintic resistance in nematodes –
<i>Anne Lespine (FR)</i> |

14:00 - 16:00

Toxicology and mycotoxins

Chair: Siska Croubels

3rd floor - Meeting 1+2

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|-------|------------|---|
| 14:00 | O29 | Comparative toxicokinetics of Alternaria mycotoxins in pigs as a surrogate animal model for humans – <i>Diethard Reckelbus (BE)</i> |
| 14:15 | O30 | FUM and DON detected by Spectrum Top® 50 method in European poultry finished feed samples exceed recent poultry Reference Points (RPs) adopted by EFSA Scientific Panel – <i>Sander Janssen (NL)</i> |
| 14:30 | O31 | An algae-clay based mycotoxin detoxifier reduces the bioavailability of a mix of mycotoxins in broiler chickens in a toxicokinetic study – <i>Marie Gallissot (FR)</i> |
| 14:45 | O32 | Turmeric powder mitigates oxidative stress in broilers dietary exposed to Aflatoxin B1 at EU maximum tolerated levels –
<i>Neenu Amminikutty (IT)</i> |
| 15:00 | O33 | Drug exposures among dogs and cats: A 2021 annual overview of calls to the Belgian Poison Centre – <i>Sarah Desmaele (BE)</i> |
| 15:15 | O34 | Atypical case of viperine envenomation – <i>Meg-Anne Moriceau (FR)</i> |
| 15:30 | O35 | Recent outbreaks of cyanide poisoning of cattle in North-Western Italy after ingestion of Sorghum ssp. grown under severe climatic conditions – <i>Stefano Giantin (IT)</i> |

16:00 - 16:45 Coffee Break (4th floor) & Poster walk (1st floor)

Programme Congress

Monday, July 3

16:45 - 18:30

Pharmacological advances in managing pain, inflammation and immunomodulation

Chair: Wolfgang Bäumer

1st floor - Auditorium A

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| 16:45 | I14 | From the bench to the exam room: Development of Anti-NGF mAbs for the treatment of pain associated with osteoarthritis –
<i>Scott Knauer (GE)</i> |
| 17:10 | I15 | Update on immune modulators for the treatment of allergic diseases in veterinary medicine – <i>Wolfgang Bäumer (GE)</i> |
| 17:35 | O36 | Assessment of the antinociceptive efficacy of analgesics, anesthetics and other compounds in zebrafish (<i>Danio rerio</i>) –
<i>Jenny Wilzopolski (GE)</i> |
| 17:50 | O37 | Dendritic cells migrating into the dorsal root ganglia might play a central role in peripheral sensitization observed in chronic pruritic diseases – <i>Tichakorn Singto (GE)</i> |
| 18:05 | O38 | Artificial intelligence for prediction of grimace scale scores for acute pain management: A model using the Feline Grimace Scale® – <i>Paulo Steagall (HK)</i> |
| 18:20 | O39 | Effects of Flunixin Meglumine on the systemic inflammatory response to intravenous lipopolysaccharide in horses – <i>Simon Bailey (AU)</i> |

16:45 - 18:30

Therapeutics – Generation Z: Gene therapy and more

Chair: Jonathan Mochel

1st floor - Auditorium B

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| 16:45 | I16 | Virus-free engineering of CAR-T cell therapy for companion canines – <i>Wes Wierson (US)</i> |
| 17:10 | I17 | Gene editing and gene therapy: Perspectives for the future of veterinary medicine in the ‘CRISPR era’ – <i>Wes Wierson (US)</i> |
| 17:35 | O40 | Recombinant antibodies against equine interleukin 5 to treat insect bite hypersensitivity – <i>Dorina Schäckermann (GE)</i> |
| 17:50 | O41 | Regenerative medicine for the treatment of pharmacoresistant epilepsy? – <i>Sonja Bröer (GE)</i> |

16:45 - 18:30

Pharmacokinetics and bioanalysis

Chair: Mathias Devreese

3rd floor - Meeting 1+2

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|-------|------------|---|
| 16:45 | O42 | UPCL-MS/MS Study of comparative plasma pharmacokinetics of tulathromycin in calves – <i>Yurily Kosenko ((UK)</i> |
| 17:00 | O43 | Integrity of data (ALCOA) and uncertainty: How derivate the uncertainty from analytical validation method and how interpolate it on the validated interval? – <i>Michel Laurentie (FR)</i> |
| 17:15 | O44 | The pharmacokinetics of Fentanyl administered via transdermal matrix patch applied to at three different dosages in horses – <i>Brittany Holmes (US)</i> |
| 17:30 | O45 | Pharmacokinetics and effects of Codeine in combination with Acetaminophen on thermal nociception in horses – <i>Heather Knych (US)</i> |
| 17:45 | O46 | Determination of pharmacokinetics of doxycycline in broilers with <i>Escherichia coli</i> infection and kept under field conditions – <i>Jeanine Wiegel (NL)</i> |
| 18:00 | O47 | Robenacoxib pharmacokinetics in goats (<i>Capra hircus</i>) following single oral, subcutaneous and intravenous administration – <i>Charbel Fadel (IT)</i> |
| 18:15 | O48 | Pharmacokinetics of Marbofloxacin in estuarine crocodiles (<i>Crocodylus porosus</i>) after a single intramuscular administration at two dosages – <i>Amnart Poapolathep (TH)</i> |

18:30 - 19:30 Annual meeting of the ECVPT (Meeting room 1+2)

19:30 - 21:00 Social Activity in Bruges

Programme Congress

Tuesday, July 4

08:30 - 10:30

Clinical Oncology and Immune Therapy

Chair: Jonathan Elliott

1st floor - Auditorium A

- 08:30 **I18** Comparative approaches to improve efficacy and availability of cellular therapies for cancer patients – *Nicky Mason (US)*
- 08:55 **I19** Ghent University's Veterinary Oncology Network: Towards solutions for human and veterinary cancer patients - *Laetitia Cicchelerio (BE)*
- 09:20 **I20** Immuno-gene therapy as a next-generation treatment against brain cancer – *Koen Breyne (US)*
- 09:45 **O49** Characterization of the immune landscape of canine and feline mammary tumors as a basis for candidate biomarker, drug and toxicity studies – *Jonas Steenbrugge (BE)*
- 10:00 **O50** Anti-cancer activity of Chaga mushroom (*Inonotus obliquus*) against patient-derived bladder cancer organoids - *Mohamed Elbadawy (JP)*
- 10:15 **O51** Algal extracts as potential anticancer agents: Preliminary investigations in C2 canine mastocytoma cell line – *Mery Giantin (IT)*

08:30 - 10:30

Residues and contaminants

Chair: Carlo Nebbia

1st floor - Auditorium B

- 08:30 **O52** RNAseq characterization of transcriptional biomarkers related to Testosterone esters administration in fattening pigs – *Alessandro Benedetto (IT)*
- 08:45 **O53** Assessment of the environmental dissemination of sulfachloropyridazine in the poultry industry – *Javiera Cornejo (CL)*
- 09:00 **O54** Antibiotic residues: A step forward toward the understanding of their toxic role in food and feed - *Alessandro Di Cerbo (IT)*
- 09:15 **O55** Risk of residues of toltrazuril sulfone in eggs after oral administration – *Małgorzata Olejnik (PL)*
- 09:30 **O56** The MDCKII-bABCG2 cell line: Assessment of pesticide accumulation in dairy milk – *Lydia Kuhnert (GE)*
- 09:45 **O57** Three-years monitoring of glyphosate residues in honey from Lombardy and Emilia-Romagna regions, Italy: Preliminary results – *Elena Butovskaya (IT)*
- 10:00 **O58** A versatile extraction and purification method for Ivermectin detection through HPLC and LC/MS in feed, water, feces, soil, and sewage - *Alicia Maria Carrillo Heredero (IT)*

08:30 - 10:30

Pharmacological Modelling 1

Chair: Pierre-Louis Toutain & Lingli Huang

3rd floor - Meeting 1+2

- 08:30 **O59** Breakthrough: A first-in-class virtual simulator for dose optimization of ACE Inhibitors in veterinary cardiology – *Jonathan Mochel (US)*
- 08:45 **O60** Comparison of intestinal barrier integrity in conventional 2D cell lines and canine duodenal enteroids – *Vojtech Gabriel (US)*
- 09:00 **O61** Pharmacokinetic modelling of orally administered cannabidiol and implications for medication control in horses – *Fabienne Eichler (GE)*
- 09:15 **O62** Population pharmacokinetics of sodium Salicylate in chickens and turkeys – new insights into the drug's non-linear elimination – *Błażej Poźniak (PL)*
- 09:30 **O63** Population pharmacokinetics and absolute oral bioavailability of lasalocid ionophore in laying hens – *Abubakar Bello (PL)*
- 09:45 **O64** PK/PD based dose optimization of Enrofloxacin in combination with Sulfamethoxazole/Trimethoprim against *Pasteurella multocida* in pigs – *Eon-Bee Lee (KR)*
- 10:00 **O65** Is there a difference in the pharmacokinetic of intramuscular Marbofloxacin between healthy and pneumonic calves? – *Zorana Kovačević (RS)*

10:15 – 11:00 Coffee Break (4th floor) & Poster Walk (1st floor)

Programme Congress

Tuesday, July 4

11:00- 12:45

Pharmacological Modelling 2

Chair: Jonathan Mochel

1st floor - Auditorium A

- 11:00 **I21** **The predictive pharmacological research strategy: The miracle of smart data** – Elizabeth de Lange (NL)
- 11:45 **I22** **Virtual heart models of the cardiac conduction system and their role in pharmacological modeling** – Jason Bayer (FR)
- 12:10 **I23** **Contribution of pharmacometrics to setting up clinical breakpoints for animal bug-drug combination** – Ludovic Pelligand (UK)
- 12:35 **O66** **Milking related milk volume changes: Implementation in a physiologically based kinetic model** – Ilse Dubbelboer (SE)

11:00 - 12:45

Antimicrobials 2

Chair: Stefan Soback

1st floor - Auditorium B

- 11:00 **I24** **Update on the ENOVAT guideline for Surgical prophylaxis and Peri-operative use** – Fergus Allerton (UK)
- 11:25 **I25** **Reassessment of class D antimicrobials of the AMEG classification: What data needs to be generated for optimal use of old antibiotics?** – Aude Ferran (FR)
- 11:50 **I26** **Role of clinical microbiology services in monitoring emerging resistances in small animals and their hospital environment** – Dorina Timofte (UK)
- 12:15 **O67** **Differences between Global, European, and Dutch categorisation of antibiotics for veterinary use: What would be the consequences of alignment?** – Dax Vendrig (NL)
- 12:30 **O68** **How taking into account the drinking behaviour of piglets can improve antibiotic treatment via drinking water** – Béatrice Roques (FR)

11:00 - 12:45

Pharmacokinetics and pharmacodynamics

Chair: Ronette Gehring

3rd floor - Meeting 1+2

- 11:00 **O69** **Frequently used veterinary drug combinations alter the bovine ABCG2 efflux activity** – Lydia Kuhnert (GE)
- 11:15 **O70** **Identification of fast and slow CYP2D15 metabolizer phenotypes in dogs using Dextromethorphan as a probe** – Tania Perez Jiminez (US)
- 11:30 **O71** **Pharmacokinetics of macrocyclic lactones endectocide in indigenous Zebu cattle and its insecticidal efficacy on Anopheles arabiensis** – Gemechu Iticha (BE)
- 11:45 **O72** **Pharmacokinetics of long-acting ampicillin in rhesus macaques (Macaca mulatta)** – Annemiek Maaskant (NL)
- 12:00 **O73** **Determination of the pharmacokinetic parameters of 4 formulations of penicillin G in order to optimize the first-line antibiotic treatment in horses** - Elodie Anne Lallemand (FR)
- 12:15 **O74** **Population pharmacokinetic modeling and pharmacokinetic simulations of dose scenarios with Apoquel® (oclacitinib)** – Wendy Collard (US)
- 12:30 **O75** **Pharmacodynamic and phenotypic evaluation of Eprinomectin resistant Haemonchus isolates from French dairy sheep farms** – Anne Lespine (FR)

12:45 - 14:00 Lunch (4th floor) & Poster Walk (1st floor)

Programme Congress

Tuesday, July 4

14:00- 15:45

Smart Vaccines - Challenges for the future

Chair: Wolfgang Bäumer

1st floor - Auditorium A

- 14:00 **I27** **Veterinary vaccinology: A field of fascinating innovations where veterinary medicine outperforms its human counterpart in general** – Alain Vanderplasschen (BE)
- 14:45 **I28** **Next Generation saRNA vaccines for rapid response to infectious disease outbreaks** – Joel Harris (US)
- 15:30 **O76** **The protective efficacy of apathogenic (V4) genotype I- and a lentogenic (LaSota) genotype II-based live vaccines against Newcastle disease virus genotype VII.1.1 in PAMP-H9N2 vaccinated broiler chickens** – Wafaa Abd El-Ghany (EG)

14:00 - 15:45

Ecotoxicology

Chairs: Tess Goessens & Jerome Giraudel

1st floor - Auditorium B

- 14:00 **I29** **The global problem of pharmaceutical pollution** – Alistair Boxall (UK)
- 14:25 **I30** **Effects of pharmaceuticals on aquatic ecosystems** – Paul van den Brink (NL)
- 14:50 **O77** **Pesticide exposure in domestic animals and wildlife: Developing analytical tools and collaboration across Europe** – Philippe Berny (FR)
- 15:05 **O78** **Evaluation of the difference in contamination by per- and poly-fluorinated substances (PFASs) in wild boar and swine tissues sampled in the same area** – Susanna Draghi (IT)
- 15:20 **O79** **Toxicity of individual and binary mixtures of perfluoroalkyl compounds in freshwater algae *Raphidocelis subcapitata*** – Edoardo Pietropoli – (IT)

14:00 - 15:45

Antimicrobials 3

Chair: Alain Bousquet-Mélou

3rd floor - Meeting 1+2

- 14:00 **O80** **In vivo and in vitro metabolomics: Flavomycin case study in chickens** – Jean Henrottin (BE)
- 14:15 **O81** **Antibiotic cross-contamination of feedingstuffs: Assessment of transfer to food of animal origin and risk of antibiotic resistance** – Cristina Santos-Santórum Suárez (FR)
- 14:30 **O82** **Homogeneity, stability, interactions, and cross-contamination of antibacterial drugs mixed into drinking water for group treatment in broilers** – Despoina Georgaki (DE)
- 14:45 **O83** **A rational determination of cefazolin dosage regimen in horses based on PK/PD principles and Monte Carlo simulations** – Taisuke Kuroda (JP)
- 15:00 **O84** **Antibiotic stewardship to manage canine and feline acute urinary tract infection targeting the use of antibiotics to reduce relapse and antimicrobial resistance** – Cristina Vercelli (IT)
- 15:15 **O85** **Antibacterial activity of propyl gallate in combination with orbifloxacin against *E. coli* in an in vitro pharmacodynamic model** – Muhammad Aleem Abbas (KR)
- 15:30 **O86** **Combination of antibiotic and bacteriophages to prevent the selection of resistant *Pseudomonas aeruginosa*** – Aude Ferran (FR)

15:45 – 16:30 Coffee Break (4th floor) & Poster Walk (1st floor)

16:20 – 16:30 EAVPT - VPRF Best Poster Award Ceremony (Auditorium A)

Programme Congress

Tuesday, July 4

16:30- 18:00

Organoids

Chair: Jonathan Mochel

1st floor - Auditorium A

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| 16:30 | I31 | Advanced in vitro models and whole organ engineering in veterinary medicine using organoids – Bart Spee (NL) |
| 16:50 | I32 | 3-Dimensional organoid application in veterinary medicine – focus on oncology – Karin Allenspach (US) |
| 17:10 | O87 | Exploring new therapeutic targets of feline mammary tumor using organoids technology – Haru Yamamoto (JP) |
| 17:25 | O88 | Prediction of treatment response using canine urine-derived bladder cancer organoids – Karin Allenspach (US) |
| 17:40 | O89 | A novel biologically relevant canine in vitro model for the study of intestinal inflammation – Christopher Zdyrski (US) |
| 17:55 | O90 | Lung organoids as a novel model to study the pathogenesis of swine respiratory diseases – Christopher Zdyrski (US) |

16:30 - 18:00

Cannabinoids and their medicinal use in man and animals

Chairs: Lloyd-Reeve Johnson & Arturo Anadon

1st floor - Auditorium B

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| 16:30 | I33 | Cannabinoids and their medicinal use in man and animals – Arturo Anadon (ES) & Lloyd-Reeve Johnson (AU) |
| 17:15 | O91 | Pharmacokinetics and therapeutic efficacy of liposomal cannabidiol (CBD) injection: A pilot clinical study in dogs with naturally-occurring osteoarthritis – Yael Shilo-Benjamini (IL) |
| 17:30 | O92 | Liposomal cannabidiol (CBD) injection: A novel therapeutic formulation is on the horizon – Yael Shilo-Benjamin (IL) |
| 17:45 | O93 | Possible reduction in lameness after oral administration of cannabinoids to chronically lame horses – Carl Ekstrand (SE) |

16:30 - 18:00

Antimicrobials 4

Chair: Aude Ferran

3rd floor - Meeting 1+2

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| 16:30 | O94 | Bacteriophage therapy against P. aeruginosa induced canine otitis externa – Anne Dalponte (GE) |
| 16:45 | O95 | In vitro and ex vivo antibacterial effects of levofloxacin against Pasteurella multocida and Escherichia coli isolated from rabbits – Andrejs Sitovs (LV) |
| 17:00 | O96 | The use of zinc-chloride coated splints in biofilm prevention following septoplasty – Eran Lavy (IL) |
| 17:15 | O97 | Assessment of in vitro growth-inhibitory activity of selected Indian medicinal plants traditionally used to treat diarrhoea in farm animals – Dhiraj Lakhichand Jain (CZ) |
| 17:30 | O98 | Ex vivo models for the exploration of innovative treatments for bovine mastitis – Viviane Filor (GE) |
| 17:45 | O99 | A research investigation into the presence of ESBL E.Coli genes at Shkumbini River – Erinda Lika (AL) |

17:30 - 18:30 JVPT Editorial Board Meeting (Meeting Room 4)

19:00 - 02:00 Congress gala dinner in La Brugeoise

Programme Congress

Wednesday, July 5

08:00- 09:45

Mycotoxins and contaminants 1

Chair: Johanna Fink-Gremmels

1st floor -Auditorium A

- 08:00 **I34** **The question of mycotoxins: Overview and current issues –**
Isabelle Oswald (FR)
- 08:45 **O100** **Evaluation of the oxidoreductive balance in wild boars (*Sus scrofa*)**
contaminated by Zearalenone (ZEN) – *Consiglia Longobardi (IT)*
- 09:00 **O101** **Whole-transcriptomic effects of bentonite, when used to prevent**
afatoxin B1 toxicity, on a widely used in vitro model of intestinal
epithelium – *Mauro Dacasto (IT)*
- 09:15 **O102** **Biotransformation as an effective strategy to recover performance**
of broiler chickens fed diets naturally contaminated diet by
Fumonisin (FUM) and Deoxynivalenol (DON) – *Lorran Gabardo (NL)*

08:00 - 09:45

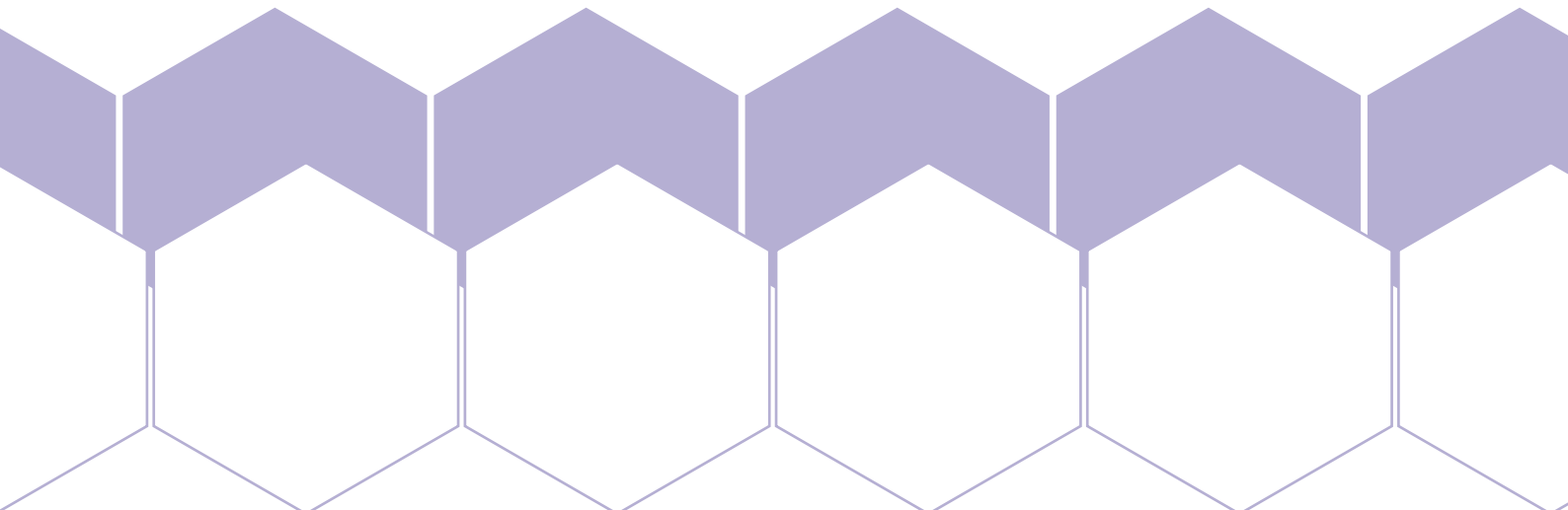
Pharmacology, toxicology and therapeutics in the next decade

Chairs: Nora Mestorino & Lloyd Reeve-Johnson

1st floor -Auditorium B

- 08:00 **I35** **Phytotherapy and nanotechnology advances against bacterial**
resistance in veterinary medicine – *Daniel Buldain (AR)*
- 08:25 **O103** **The effect of canagliflozin on blood glucose and insulin in healthy**
standardbred horses – *Peter Michanek (SE)*
- 08:40 **O104** **Experiences with test permits and GMP requirement for veterinary**
clinical studies – *Klaus Hellmann (DE)*
- 08:55 **O105** **The European partnership for the assessment of risk from chemicals**
(PARC): Its aims and expected impacts – *Pascal Sanders (FR)*
- 09:10 **O106** **Proteomics to test the efficacy of novel transdermal NSAIDs –**
Paul Mills (AU)

09:45 - 10:15 Coffee Break (4th floor) & Poster Walk (1st floor)



Programme Congress

Wednesday, July 5

10:15- 11:30

Mycotoxins and contaminants 2

Chair: Johanna Fink-Gremmels

1st floor - Auditorium A

- | | | |
|-------|-------------|---|
| 10:15 | I36 | The first extensive bio-monitoring mycotoxin exposure survey in livestock animals reveals significant exposure to multi-mycotoxins – Arnau Vidal (BE) |
| 10:40 | O107 | Unveiling the role of bovine CYP1A1 and CYP3A28 in AFB1 metabolism: Molecular docking and CRISPR/Cas9-mediated genetic knockout in BFH12 cells – Silvia Iori (IT) |
| 10:55 | O108 | Red orange and lemon extract ameliorates the renal toxicity effect induced by Ochratoxin A through the modulation of ROS accumulation and NF-kB signalling – Sara Damiano (IT) |
| 11:10 | O109 | Protective effects of quercetin towards aflatoxin B1-induced hepatotoxicity in cattle: A whole transcriptomic in vitro study – Marianna Pauletto (IT) |

10:15 - 11:30

Residents session

Chairs: Lloyd Reeve-Johnson & Jonathan Mochel

1st floor - Auditorium B

- | | | |
|-------|-------------|---|
| 10:15 | O110 | Dose-dependent impact of enrofloxacin on broiler chicken gut resistome is mitigated by synbiotic application – Robin Temmerman (BE) |
| 10:30 | O111 | Population PK modeling of different sulfonamides in association with trimethoprim in pigs – Alexis Viel (FR) |
| 10:45 | O112 | On the edge of equine atypical myopathy: A first large-scale report of subclinical Hypoglycin A poisoning in horses – Benoit Renaud (BE) |
| 11:00 | O113 | Antimicrobial susceptibility of aeromonas salmonicida subsp salmonicida collected exclusively from rainbow trout (Onchorhynchus mykiss) in France – Antoine Rostang (FR) |

11:30 - 11:45 Presentation by the next congress applicants

12:00 - 13:00 Annual General Meeting of the EAVPT

12:30 - 13:30 Lunch + end of the EAVPT congress



2-5 | 07 | 23

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Poster List

Antimicrobials

- P1 **In vitro effect of N-acetylcysteine in combination with doxycycline on biofilm formation capacity of *Staphylococcus aureus* and *Escherichia coli***
Tsvetelina Angelova-Petkova (BG)
- P2 **Doxycycline pharmacokinetics in chickens with experimental *Mycoplasma gallisepticum* infection**
Tsvetelina Angelova-Petkova (BG)
- P3 **Cefquinome shows a higher impact on the pig gut microbiome and resistome compared to ceftiofur**
Sofie Rutjens (BE)
- P4 **Pharmacokinetic-pharmacodynamic integration of lincomycin against *Actinobacillus pleuropneumoniae* in swine**
Eon-Bee Lee (KR)
- P5 **Characterization and antibacterial activity of *Limosilactobacillus reuteri* PSC102 against enterotoxigenic *E. coli***
Muhammad Aleem Abbas (KR)
- P6 **Potential therapeutic effect of ozone water on inflammatory skin symptoms and periodontal diseases in canine**
Mao Kaneki (JP)
- P7 **Valnemulin misuse in medicated feed for rabbit: Possible route for antimicrobial resistance spread**
Maria Cesarina Abete (IT)
- P8 **Pharmacokinetics of long-acting formulation of amoxicillin trihydrate in dogs after intramuscular injection**
Jeong-Won Kim (KR)
- P9 **Pharmacokinetics of Lincomycin in laying hens and its residue profiles in egg and plasma**
Jin-Hwa Kim (KR)
- P10 **Pharmacokinetic evaluation of oral itraconazole administration in captive king penguins (*Aptenodytes patagonicus*) after single doses**
Anna Inoue (JP)
- P11 **Synovial and systemic pharmacokinetics of florfenicol in pigs**
Somogyi Zoltán (HU)
- P12 **Antibacterial susceptibility of *Actinobacillus pleuropneumoniae*, *Pasteurella multocida* and *Streptococcus suis* isolated from pigs in Hungary, 2018 to 2021**
Patrik Mag (HU)
- P13 **Microbial Evolution and Growth Arena (MEGA-plate), accelerated evolution and co-selection studies with *Escherichia coli* strains for extended spectrum beta-lactamase (ESBL) production**
Akos Jerzsele (HU)
- P14 **Antibiofilm effect of plant extracts**
Melinda Nemes-Terenyi (HU)
- P15 **Modulation of the acute inflammatory response induced by the *Escherichia coli* lipopolysaccharide by the interaction of FFC and PTX**
Ruben Perez (CL)

- P16 **Metagenomic analysis of veterinary probiotics in broiler chickens**
Adam Kerek (HU)
- P17 **In vitro evaluation of the activity of antibiotics against *Rhodococcus equi* at pH and concentrations representative of intracellular conditions**
Aude Ferran (FR)
- P18 **Pharmacokinetics of tiamulin in geese after single and multiple oral administrations and evaluation of drug effects on resistance in cloacal flora**
Cristina Vercelli (IT)
- P19 **Determination of optimal ratios for three Sulfonamides/Trimethoprim combinations against *E. coli* using checkerboard and time-kill assays**
Marine Boulanger (FR)
- P20 **Antimicrobial prescribing practice at three Equine Veterinary Teaching Hospitals in Italy**
Lucia De Marchi (IT)
- P21 **Prudent use of antimicrobials in cats at the Veterinary Teaching Hospital of the University of Pisa, Italy**
Lucia De Marchi (IT)
- P22 **Prevalence of MRSA in companion animals from 2019-2021 in Germany**
Leonie Feuer

Bioanalysis

- P23 **Determination of N-acetylcysteine in chicken plasma by LC-MS/MS analysis**
Aneliya Milanova (BG)
- P24 **Analysis of the effect of the bovine ABCG2 polymorphism Y581S in biodistribution of endogenous compounds using untargeted metabolomics**
Laura Alvarez-Fernandez (ES)
- P25 **Description of analytical approaches to compare ketamine pharmacokinetics in feline dried blood spots and plasma**
Anisa Bardhi (IT)

Ecotoxicology

- P26 **Astaxanthin as an effective modulator of drug-induced oxidative stress: A rat model**
Alessandro Di Cerbo (IT)

Feed additives

- P27 **The efficacy of maternally delivered immunoglobulin (Y) against some gut pathogens in chickens**
Wafaa Abd El-Ghany (EG)
- P28 **Bovine milk whey proteins diet supplementation reduce Cd level in liver and kidney of cadmium intoxicated rats**
Jose Luis Valverde Piedra (PL)
- P29 **Bovine milk casein diet supplementation reduce Cd level in liver and kidney of cadmium intoxicated rats**
Agnieszka Chalabis Mazurek (PL)

- P30 **Beneficial effect of fermented wheat germ extract in intestinal epithelial cells in case of lipopolysaccharide-evoked inflammation**
Alma Virág Mórítz (HU)
- P31 **Effects of *Bacillus licheniformis* and *Bacillus subtilis* on porcine intestinal epithelial cells**
Nikolett Palkovicsné Pézsa (HU)
- P32 **Methane production and performance in dairy cows fed with RumenProof CF***
Rike Brunner (DE)
- P33 **Whole transcriptome analysis of plant-based feed additive treated *Brachyspira hyodysenteriae***
Orsolya Palócz (HU)
- P34 **Phenolic extracts from brown marine algae *Gongolaria baccata* and *Bifurcaria bifurcata*: Update on their biological activities**
María-Rosa Martínez-Larrañaga (ES)
- P35 **The pharmacokinetics of gallic acid in finisher broilers**
Kobe Buyse (BE)
- P36 **Adapted minimal inhibitory concentration testing protocol as screening tool for gut health and related products**
Joren De Smet (BE)

Gut health

- P37 **Beneficial effect of quercetin, 3-o-methylquercetin and rhamnazin in lipopolysaccharide-induced inflammation in porcine intestinal cells**
Zita Karancsi (HU)

Internal medicine and organ pharmacology/toxicology

- P38 **Histopathological features in selected organs of turkeys experimentally exposed to low doses of salinomycin – Preliminary study**
Agnieszka Chłódowska (PL)

Mycotoxins

- P39 **Mycotoxins DON and ZEA affect expression levels of ABCB1 mRNA and ABCC2 mRNA in pigs: A pilot study**
Aneliya Milanova (BG)
- P40 **Influence of oral exposure to low concentration of Fumonisin B2 on the immune system**
Mana Ando (JP)
- P41 **Mycotoxins and endotoxins binding by an innovative anti-mycotoxins agent**
Insaf, Riahi (ES)

One health

- P42 **Teat dip disinfectant formulation for dairy cows based on *Melaleuca armillaris* essential oil**
Daniel Buldain (AR)
- P43 **Minimal inhibitory and bactericidal concentrations of gentamicin, enrofloxacin, colistin and *Melaleuca armillaris* essential oil against *Pseudomonas aeruginosa* isolated from canine otitis externa**
Daniel Buldain (AR)

- P44 **Antimicrobial activity of essential oils extracted from *Origanum vulgare* and *Melaleuca armillaris* against *Escherichia coli* isolated from poultry feces**
Nora Mestorino (AR)
- P45 **Antimicrobial susceptibility profiles of *Staphylococcus aureus* and coagulase negative staphylococcus from subclinical mastitis in goat dairy farms**
Nora Mestorino (AR)
- P46 **Monitoring of antimicrobial resistance during the calf rearing period in dairy farms**
Nora Mestorino (AR)
- P47 **Monitoring of veterinary antimicrobials sales data as a part of one health approach on combating antimicrobial resistance**
Yuriy Kosenko (UA)
- P48 **An in vitro model to inform xenobiotic transfer over the blood-milk-barrier of dairy animals**
Ilse Dubbelboer (SE)
- P49 **The role of vaccines in prevention of antimicrobial resistance in veterinary medicine with review of growth, trends and the impact of covid-19 on the market of veterinary vaccines**
Romel Velev (MK)
- P50 **Abundance and diversity of the faecal resistome in small-holder broiler systems in Kenya**
Jane Njaramba (KE)

Organoids

- P51 **Evaluation of potential anti-inflammatory and Barrier-Enhancing effects of indoles on the Canine duodenum using intestinal organoids**
Karen Allenspach (US)
- P52 **New 3d organoid model suitable for in vitro adipose tissue testing**
Karel Paukner (CZ)

Pain, inflammation and immunomodulation

- P53 **Pain management after surgery in pigeons via the implantation of an osmotic pump delivering meloxicam**
Caroline Prouillac (FR)
- P54 **In vitro interaction of melatonin and its main metabolites with the ovine and bovine ABCG2 transporter**
Gracia Merino (ES)
- P55 **Robenacoxib pharmacokinetics in geese (*Anser anser domesticus*) following single intravenous and oral administration**
Mario Giorgi (IT)
- P56 **The anti-inflammatory and immunomodulating activity of novel Standardized Propolis Extract (SPE) for veterinary and human medicinal use**
Jelena Suran (HR)

Parasiticides

- P57 **Ivermectin pharmacokinetics in gees following oral and intravenous administration**
Beata Łebkowska-Wieruszewska (PL)
- P59 **In vitro inhibition of enzymes reducing the anthelmintic Flubendazole in *Haemonchus contortus***
Nikola Rychlá (CZ)
- P60 **Flubendazole-induced changes in the expression of selected SDR genes throughout the developmental stages of *Haemonchus contortus***
Karolína Štěrbová (CZ)
- P61 **Role of P-glycoproteins 6 and 9 in Ivermectin resistance in the nematode model *Caenorhabditis elegans***
Clara Blancfuney (FR)
- P62 **In-feed medication with fenbendazole: Induction of cytochrome P450-dependent metabolism in pig liver microsomes**
Carlos Lanusse (AR)

Pharmacological modelling

- P63 **Pharmacokinetics of ginsenosides after administration of Korean red ginseng and compound K in experimental animals**
Ji-Soo Jeong (KR)
- P64 **CardioDox: Towards development of a personalized physiologically based pharmacokinetic model to predict cardiac Doxorubicin concentrations in dogs**
Tom Roos (NL)
- P65 **A physiologically based kinetic model to measure welfare in animals using stress biomarkers as part of the TKPlate 2.0 project**
David Inauen (NL)
- P66 **Setting up a popPK model using data from feline patients treated with Buprenorphine intravenously and buccally**
Esther Winter (NL)
- P67 **Determination of the PK/PD cut-off of oxytetracycline in cattle using the VetCAST method to support the establishment of a clinical breakpoint for antimicrobial susceptibility testing**
Esther Winter (NL)
- P68 **Population pharmacokinetics of Carboplatin in client owned dogs**
Matthias Kohlhauer (FR)

Regulatory

- P69 **Safety of pesticides for farm animals and pets from a regulatory point of view**
Anne Schmitt (DE)
- P70 **Limited Market applications in the EU: Experiences under Regulation EU 2019/6 – Cornelia Huettinger (DE)**
- P71 **Regulation (EU) 2021-805 amending Annex II to Regulation (EU) 2019/6: Challenges for R&D**
Dejan Cvejic (DE)

Residues and contaminants

- P72 **Metals occurrence in eagle and goshawks from North-western Italy**
Maria Cesarina Abete (IT)
- P73 **Mass spectrometry method to evaluate biogenic amines in sea bass treated with Cafados**
Alessandro Benedetto (IT)
- P74 **Endogenous sex steroid levels in calves and the microscopical features of target organs**
Alessandro Benedetto (IT)
- P75 **Cadmium and lead occurrence in food for infants and young children**
Maria Cesarina Abete (IT)
- P76 **Preliminary data of 21 per-fluoroalkyl substances (PFAS) in rice from North-western Italy**
Maria Cesarina Abete (IT)
- P77 **Coadministration of macrocyclic lactones affects milk residues of the antiparasitic clorsulon in Assaf sheep**
Alicia Millan-Garcia (ES)
- P78 **Development and validation of an analytical method for theobromine detection in feedstuffs**
Maria Cesarina Abete (IT)
- P79 **Development of analytical method for veterinary drugs in honey using LC-MSMS and GC-MSMS**
Jangduck Choi (KR)
- P80 **Multi-class determination of 60 antibiotic residues in milk by LC-MS/MS**
Maria Cesarina Abete (IT)
- P81 **Rapid analysis of antiparasitic drug residues in animal tissues and milk by LC-MS/MS: A simplified approach**
Maria Cesarina Abete (IT)
- P82 **Multiclass screening method to detect banned substances in urine by LC-MS/MS**
Maria Cesarina Abete (IT)
- P83 **Limits of the limits in the food and feed safety**
Piotr Jedziniak (PL)
- P84 **Uptake of oxytetracycline by lettuce fertilized with broiler litter**
Karina Yévenes Coa (CL)
- P85 **Residue depletion of enrofloxacin and flumequine in feathers of broilers based on quantitative UHPLC-MS/MS detection**
Mathias Devreese (BE)
- P86 **Fipronil administration in laying hens: Edible and inedible tissue residue profiles**
Laura Moreno (AR)
- P87 **Antibacterial drug residues in animal tissues for human consumption: Monitoring and exposure assessment**
Laura Moreno (AR)

Translational medicine/animal models

- P88 **Altered endothelial function in response to high glucose level in the isolated thoracic aorta of Sprague-Dawley rats: A study of the effect of gliflozins**
Jean-Claude Desfontis (FR)

- P89 **Role of the histamine H1, H2 and H4 receptor in a mouse model of chronic dermatitis**
Jonathan Vidak (DE)
- P90 **Differential breed-, age- and sex-regulated muscarinic receptor distribution in atria and ventricles of turkeys**
Getu Abraham (DE)

Veterinary pharmacology education

- P91 **Alternative practical workshops in education/ training courses for users of laboratory animals**
Jean-Claude Desfontis (FR)
- P92 **Hybrid practical training in veterinary pharmacology learning at Veterinary School Oniris, France**
Jean-Claude Desfontis (FR)

Miscellaneous

- P93 **In-vitro biocompatibility evaluation of magnetic nanoporous silica nanoparticle labeled with CD47**
Hilke Oltmanns (DE)
- P94 **Molluscicide exposures among dogs: A 2022 annual overview of calls to the Belgian Poison Centre**
Sarah Desmaele (BE)
- P95 **Plasma exposure of cannabidiol and cannabidiolic acid after oral administration to the horse**
Carl Ekstrand (SE)
- P96 **The potential diagnostic value of progesterone (P4) on erythrocyte flow properties in monitoring the pregnancy course**
Gregory Barshtein (IL)
- P97 **In vitro metabolomics analysis using UHPLC-HRMS/MS for vet drug registration: An efficient alternative to in vivo approaches?**
Jean Henrottin (BE)
- P98 **Utility of the micro-blood sampling (drug blood spot) technique for pharmacokinetic studies**
Laura Moreno (AR)
- P99 **Suspected malicious wildlife poisoning in North-Western Italy: A 2014-2022 survey**
Simona Zoppi (IT)
- P100 **Drug interactions in small animal veterinary medicine: Survey results from 1014 veterinary practitioners**
Jean-Claude Desfontis (FR)
- P101 **Update in the human medicine use in veterinary medicine: Survey results from 834 veterinary practitioners**
Jean-Claude Desfontis (FR)

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Programme post-congress events

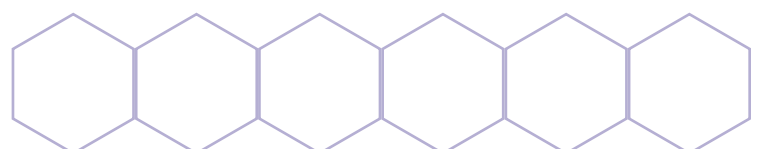
Wednesday, July 5

Place	Time	Event/session	Supervisors
3rd floor – Meeting room 2	13:30 – 17:00	A tutorial overview and recent developments on mycotoxins with its implications for veterinary medicine.	Johanna Fink-Gremmels & Isabelle Oswald
3rd floor – Meeting room 1	13:30 – 17:00	Quantitative method for determination of clinical breakpoint according to the VetCAST approach.	Ludovic Pelligand & Pierre-Louis Toutain

Programme post-congress events

Thursday, July 6

Place	Time	Event/session	Supervisors
3rd floor – Meeting room 1	08:00 – 17:00	VetCAST workshop on Quantitative method for determination of clinical breakpoint according to the VetCAST approach.	Ludovic Pelligand & Pierre-Louis Toutain



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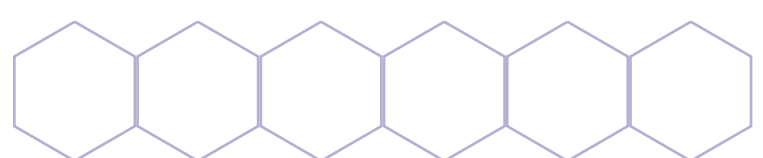
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