16:30-17:00 Opening Ceremony  
Johanna Fink-Gremmels - EAVPT President  
André Sobczak - Nantes Métropoles  
Jean-Claude Desfontis - Chairman Local Organizing Committee EAVPT  

17:00-18:00 Inaugural Plenary Lecture  
*Chairs:* J. Fink-Gremmels and J.-Y. Madec  

18:00 - Mezzanine - R2 Foyer Haut  
Welcome cocktail
PARALLEL SESSIONS

08:30-10:15  Antimicrobials 1 & Antibiotic resistance
**Chairs:** T. Simon and M. Everett

**Antibiotics and antibiotic resistance in Veterinary Medicine - future challenges**
Tony Simon - Zaventem (BE)

**Development of antivirulence compounds as replacements or adjuncts to antibiotics in animal health**
Martin Everett - Labège (FR)

**Short oral communications**

**Characterization and prevention of fluoroquinolone resistance in Escherichia coli isolated from animals** - M. Cengiz - Bursa (TU)

**Evaluation of the influence of treatment time and antibiotic dosage regimen on bacterial burden and clinical outcomes in experimentally infected calves with Mannheimia haemolytica** - G. Lhermie - Paris (FR)

**Pharmacokinetics, pharmacodynamics and local tolerance at injection site of marbofloxacin administered via regional intravenous limb perfusion in standing horses** - E. Lallemand - Toulouse (FR)

**Pharmacodynamic/pharmacokinetic analysis of cephalaxin activity on Staphylococcus aureus in a new in vitro model with and without macrophages** - E. Lallemand - Toulouse (FR)

08:30-10:15  Pharmacokinetics 1
**Chairs:** J. Gabrielsson and A. Anadón

**Dose-response-time data analysis: A poorly explored topic in pharmacokinetic and pharmacodynamic practice**
Johan Gabrielsson - Upssala (SE)

**Short oral communications**

**Pharmacokinetics of metoclopramide: intravenous, intramuscular, subcutaneous and per rectum administrations in rabbits** - V. de Vito - Sassari (IT)

**Flupirtine: pharmacokinetics and disposition in the horse** - M. Giorgi - Pisa (IT)

**Relation between age-dependent change in hemodynamics and metronidazole body clearance in turkeys** - M. Switala - Wrocław (PL)

**Pharmacokinetics of repeated sodium salicylate administration to laying hens: evidence for time dependent increase in drug elimination from plasma and eggs** - B. Poźniak - Wrocław (PL)

08:30-10:15  Toxicology 1 - Clinical/farm animals & Regulatory
**Chairs:** M. Perez-Lopez and C. Nebbia

**Ruminant toxicity diagnosis: How to proceed?**
Marcos Perez-Lopez - Caceres (ES)

**Short oral communications**

**Monitoring of milk, chicken meat eggs and feed for GMO's using PCR based microarray**
G. Sarathchandra - Tamilnadu (IN)

**ABCG2-pesticide interactions in the bovine mammary gland and pesticide-mediated induction of ABCG2 efflux activity by the arylhydrocarbon receptor** - S. Halwachs - Leipzig (GE)

**Comparison of the antithrombotic activity of ferulenol and ferprenin, two prenylated coumarins contained in Ferula communis** - V. Lattard - Marcy-l’Etoile (FR)

**Comparing User Risk Assessment - Veterinary Medicinal Products versus Biocides**
D. Pfeifer - Munich (GE)

10:15-10:45   Coffee break - Poster session
PARALLEL SESSIONS

10:45-12:30  Antimicrobials 2 & Antibiotic resistance
Chairs: J.-Y. Madec and P.-L. Toutain

Methicillin-resistant *Staphylococcus pseudintermedius* - a problematic issue for companion animals
Jean-Yves Madec - Lyon (FR)

**Short oral communications**

Fluoroquinolones *in vitro* dynamic model to minimize emergence of resistant *Salmonella enterica serovar Typhimurium* - S.-J. Lee - Dae-gu (KS)

Comparative pharmacodynamics of ciprofloxacin, enrofloxacin and norfloxacin for *Escherichia coli* of diarrheic calves - P. Sidhu - Punjab (IN)

Demonstration of applicability of PK/PD concepts to determine a dosage regimen for tulathromycin in the calf - P.-L. Toutain - Toulouse (FR)

Protocols for the assessment of biofilm formation and sensitivity: Model experiments with *Staphylococcus epidermidis* - J. Fink-Gremmels - Utrecht (NL)

10:45-12:30  Pharmacodynamics 1 - General
Chairs: J. Elliott and Q. McKellar

From isolated blood vessel to in vivo cardiovascular drug action - Jonathan Elliott - London (UK)

Specificity of pharmacokinetics and pharmacodynamics in old animals - Petra Cagnardi - Milan (IT)

**Short oral communications**

Developmental-related alteration of the cardiac β-adrenergic system in turkey poults - S. Hoffmann - Leipzig (GE)

Effect of nitric oxide synthase inhibition on blood pressure and nitric oxide concentrations in control and previously laminitic ponies - J. Elliott - London (UK)

First-in-class angiotensin receptor-neprilysin inhibitor LCZ696 markedly influences the dynamics of circulating cGMP and biomarkers of the renin-angiotensin aldosterone system in dogs - J. Mochel - Basel (SZ)

Effects of dexamethasone treatment on B-adrenergic receptors in target organs of veal calves - C. Vercelli - Grugliasco (IT)

**International Methods for Consumer Risk Assessment of Injectable Veterinary Medicines**

**Lack of Harmonization Can Impact International Trade** - Laura Letendre - Duluth (US)

Differential Expression of Skeletal Muscle Genes Following Administration of Clenbuterol to Exercised Horses - H. Knych - Davis (US)

Immunomodulatory effects of hyaluronan oligosaccharides in equine peripheral blood mononuclear cells - J. Vendrig - Utrecht (NL)

10:45-12:30  Drug residues
Chairs: T. Whittem and L. Letendre

New approach for modeling drug concentrations in milk and for calculation of withdrawal times - Ted Whittem - Melbourne (AU)

International Methods for Consumer Risk Assessment of Injectable Veterinary Medicines - Laura Letendre - Duluth (US)

**Short oral communications**

Understanding intra-mammary beta-lactam pharmacokinetics using a physiologically-based model - A. Woodward - Werribee (AU)

Monitoring of chloramphenicol residues in milk, chicken meat and eggs lcmsms - G. Sarathchandra - Tamilnadu (IN)

Transcriptomic analysis of skeletal muscle from beef cattle exposed to illicit schedules containing dexamethasone: identification of new candidates and their comparison with proteomics data and samples from field monitoring - R. Elgendy - Legnaro (IT)

Pharmacokinetics and Tissue Residue of Toltrazuril in Broiler Chickens - A. Soliman - Giza (EG)
**PARALLEL SESSIONS**

### 14:00-15:45  Bayer Roundtable - Animal Farming & the Need for Innovation in the Mitigation of Infectious Diseases

**Chairs:** P.-L. Toutain and J.-C. Desfontis  
**Moderator:** D. Veerman

- **Perspectives from the Food Industry**
  - Ignacio Blanco-Traba - Madrid (SP)

- **Immunomodulation as an approach for reduction of antibiotics - Stimulation of the innate immune response for an enhanced resistance against infections**
  - Armin Saalmüller - Vienna (AU)

- **Mitigating infectious diseases in farm animals**
  - Johanna Fink-Gremmels - Utrecht (NL)

### 14:00-15:45  PK/PD Modeling

**Chairs:** J. Mochel and P. Lees

- **Chronopharmacology of the renin-angiotensin aldosterone system in dogs: the value of pharmacokinetic/pharmacodynamic modeling**
  - Jonathan Mochel - Basel (SZ)

- **Short oral communications**

  - **PK/PD evaluation of the novel atypical opioid tapentadol in yellow-bellied slider turtles (Trachemys scripta scripta)**
    - M. Giorgi - Pisa (IT)

  - **A PK/PD study in trachemis turtles after single intracoelomic injection of Marbofloxacin at different doses**
    - C. Vercelli - Grugliasco (IT)

  - **Efficacy of florfenicol and gamithromycin in an Ornithobacterium rhinotracheale infection model in turkeys: A pharmacokinetic-pharmacodynamic approach**
    - A. Watteyn - Merelbeke (BE)

  - **Pharmacokinetics and clinical efficacy of meloxicam in Italian Mediterranean Buffalo calf (Bubalus bubalis)**
    - P. Cagnardi - Milano (IT)

  - **Pharmacodynamic and pharmacokinetic (PK/PD) pooled modelling of the antihypertensive response to amlodipine in hypertensive cats**
    - L. Pelligand - Hatfield (UK)

### 14:00-15:45  Endocrine Disruptors

**Chairs:** C. Viguié and B. Le Bizec

- **Endocrine disruptors toxicity: what can domestic species bring to the table?**
  - Catherine Viguié - Toulouse (FR)

- **Short oral communications**

  - **In vitro toxicity of some pesticides on goat and dog spermatozoa**
    - B. Yurdakok Dikmen - Ankara (TU)

  - **Bisphenol A-glucuronide hydrolysis in the ovine fetal compartment prolongs the fetal exposure to Bisphenol A**
    - G. Gauderat - Toulouse (FR)

  - **Evaluation of Antropogenic Ecotoxicity in Ankara River Using RTG2 Cell line**
    - B. Yurdakok Dikmen - Ankara (TU)

  - **Bisphenol A: comparison of the pharmacokinetics profiles obtained after 3 routes of administration**
    - D. Guignard - Toulouse (FR)

### 15:45-16:15  Tea break - Poster session

Mezzanine - R2 Foyer Haut
PARALLEL SESSIONS

16:15-18:00  Workshop - Pharmacovigilance

Chairs: P. Sanders and E. Motschwiller

Perspectives for applied pharmacology in veterinary pharmacovigilance
Cédric Colmar - Fougères (FR)

Pharmacovigilance surveillance over the life cycle of the Product
Edelgard Motschwiller et Corinne Tzanavaris - Paris (FR)

Point of view of pharmacologist about pharmacovigilance surveillance
Michel Laurentie et Pascal Sanders - Fougères (FR)

Short oral communications

Interactions of clay-based feed additives with orally administered veterinary drugs
T. De Mil - Merelbeke (BE)

Trilostane drug safety surveillance: a retrospective study of 103 cases - D. Rochel - Nantes (FR)

16:15-18:00  Applied biostatistics

Chairs: L. Pelligand and R. Servien

Monte Carlo simulations and their application in veterinary medicine
Ludovic Pelligand - Hatfield (UK)

Multivariate analysis of clinical scores: A population PK/PD approach
Remi Servien - Toulouse (FR)

Short oral communications

Effect of furosemide on diuresis and renin-angiotensin aldosterone activation in dogs: a model-based dose-response approach - J. Mochel - Basel (SZ)

Impact of early antimicrobial prevention on broiler flocks performances - a propensity score analysis - C. Chauvin - Ploufragan (FR)

A kinetic of effects study: an attempt to model intracellular mechanisms generated by drug-receptor interaction - C. Thorin - Nantes (FR)

16:15-18:00  Contaminants

Chairs: P. De Backer and B. Le Bizec

Mycotoxins - True natural toxins
Johanna Fink-Gremmels - Utrecht (NL)

Short oral communications

Effects of Deoxynivalenol on intestinal barrier functions: a comparative in vitro/in vivo assessment - S. Braber - Utrecht (NL)

Comparative toxicokinetics, absolute oral bioavailability and biotransformation of zearalenone in different poultry species - M. Devreese - Merelbeke (BE)

Fates and tissue dispositions of deoxynivalenol and zearalenone in broilers
A. Poapolathep - Bangkok (TH)

Stachybotryotoxicosis in cattle - About a case - M. Kammerer - Nantes (FR)

18:00-19:00  General Assembly ECVPT
Tuesday 21 July - Morning

PARALLEL SESSIONS

08:30-10:15  Antiparasitics internal & external
Chairs: C. Lanusse and D. Larsen

Rooms G-H

Pharmacology-based strategies to optimize drug activity against resistant helminth parasites in ruminants
Carlos Lanusse - Tandil (AR)

An overview of the Pharmacokinetics of an Isoxazoline: a New Class of Parasiticide for Dogs
Diane Larsen - North Brunswick (US)

Short oral communications

Evaluation of the tolerance of a permethrin-dinotefuran-pyriproxyfen combination (Vectra®3D) after topically repeated overdosed administration in young puppies
E. Coussanes - Libourne (FR)

ABCG2-mediated transport of anthelmintic drugs in the mammary gland of dairy cows
S. Halwachs - Leipzig (GE)

On the mode of action of emodepside and diethylcarbamazine - R. J. Martin - Ames (US)

Not just GluCls (Glutamate-gated Chloride channels): Abamectin has potent effects on nicotinic acetylcholine receptors of nematode parasites - R. J. Martin - Ames (US)

08:30-10:15  Pharmacokinetics 2
Chairs: M. Martinez and J. Mochel

Auditorium 4-50

Use of in silico models to support drug and drug product understanding
Marilyn Martinez - Rockville (US)

Short oral communications

Pharmacokinetics of the angiotensin receptor-neprilysin inhibitor LCZ696 in furosemide-treated dogs - J. Mochel - Basel (SZ)

Simultaneous intravenous and subcutaneous population modelling of robenacoxib disposition kinetics in cats - L. Pelligand - Hatfield (UK)

Preliminary results of potential lateral distribution of permethrin over horse skin
A. Werners - St. George (GD)

08:30-10:15  Drug transporters & biotransformation 1
Chairs: M. Dacasto and K. Mealey

Room 200

Pharmacogenetics Of Cytochromes P450 In Veterinary Species: An Update
Mauro Dacasto - Legnaro (IT)

Short oral communications

Comparative study on the expression and activity of hepatic enzymes responsible for dioxin-like compound biotransformation in sheep and cows - F. Girolami - Grugliasco (IT)

Interaction of the bovine mammary ABCG2 efflux transporter with AFB1 and the modulation of its activity by PCB126 - L. Manzini - Grugliasco (IT)

The ontogeny of hepatic CYP3A, CYP2C and CYP2E enzyme activity in conventional pigs J. Millecam - Merelbeke (BE)

Correlation between Dextromethorphan and Debrisoquine metabolism and CYP2D50 genotype in Thoroughbred horses - H. Knych - Davis (US)

10:15-10:45 Coffee break - Poster session

Mezzanine - R2 Foyer Haut
**PARALLEL SESSIONS**

**10:45-12:30 Antimicrobials 3 & Antiibiograms**
*Chairs: D. Mevius and A. Bousquet-Melou*

The consequences of generic marketing on antibiotic consumption and the spread of antimicrobial resistance: the need for new antibiotics
Alain Bousquet-Melou - Toulouse (FR)

Veterinary Committee on Antimicrobial Susceptibility Testing (VetCAST)
Dik Mevius - Lelystad (NL)

**Short oral communications**

The revised draft of the EMA/CVMP 'Guideline for the demonstration of efficacy for VMPs containing antimicrobial substances': Requirements to field studies - K. Hellmann - Munich (GE)

Regulation and guidelines of veterinary antimicrobial therapy and animal welfare in the Netherlands - from a small animal perspective - L. Schipper - Utrecht (NL)

Zoonotic disease control: collaboration to control infectious diseases affecting multiple species - L. Reeve-Johnson - Brisbane (AS)

**10:45-12:30 Drug transporters & biotransformation 2**
*Chairs: M. Dacasto and K. Mealey*

Clinical relevance of ABC transporter polymorphisms in the dog and cat
Katrina Mealey - Pullman (US)

**Short oral communications**

Use of liver slices to assess metabolic drug-drug interactions in cattle - G. Virkel - Tandil (AR)

Transcriptomic characterization of Marby Darby Bovine Kidney (MDBK) cell line and its comparison with cattle primary hepatocytes and liver tissue - R. Elgendy - Legnaro (IT)

Regulation Of Bovine CYP3A28 Promoter By Pregnane X Receptor (PXR) And Constitutive Androstane Receptor (CAR) - M. Giantin - Legnaro (IT)

Bovine liver slices as a model to evaluate metabolic interactions between flukicidal (triclabendazole) and nematodicidal (oxfendazole, fenbendazole) molecules - P. Viviani - Tandil (AR)

Exonic Polymorphisms Of Cytochrome P450 3As (CYP3As) In Piedmontese Cattle Breed
M. Giantin - Legnaro (IT)

**10:45-12:30 Pharmacodynamics 2 - Pain/Inflammation**
*Chairs: B. Ranheim and J.-C. Desfontis*

Quantification of pain and nociception in inflammation models
Olivier Levionnois - Bern (SZ)

**Pain models in domestic animals**

Birgit Ranheim - Oslo (NO)

**Short oral communications**

Synergistic interaction between tapentadol and flupirtine in the rat orofacial formalin test
H.-K. Lee - Daejeon (KS)

Topically Administered Janus-Kinase Inhibitors Tofacitinib and Oclacitinib Display Anti-Pruritic and Anti-Inflammatory Responses in a Mouse Model of Allergic Dermatitis
T. Fukuyama - Raleigh (US)

Hepatic microsomal stability of human CYP2C9 substrates between marsupials and the rat: a preliminary study - M. Govendir - Sydney (AS)

Evaluation of the anti-inflammatory properties of ketoprofen in bovine and porcine in vivo models using a HPLC-MS/MS multi-method - P. De Backer - Merelbeke (BE)

Local tolerance assessment of two Ketoprofen based solutions for injection at 15 and 10% administered by intramuscular route in swine - M. Salichs - Barcelona (ES)
PARALLEL SESSIONS

14:00-15:30 Evidence-based veterinary medicine & Innovative learning

Chairs: L. Schipper and V. Fajt

- How best to integrate EBVM into veterinary curricula
  Virginia Fajt - College Station (US)

- Veterinary pharmacologists’ responsibilities in supporting the practice of evidence-based veterinary medicine
  Virginia Fajt - College Station (US)

- Developing a virtual learning environment for veterinary pharmacology and toxicology
  Jérôme Del Castillo - Saint-Hyacinthe (CA)

14:00-15:30 Toxicology 2 - Clinical/small animals

Chairs: J. N. Edwards and H. Pouliquen

- New trends in poisoning treatment - lipidotherapy
  John Nick Edwards - London (UK)

Short oral communications

- Acute hepatotoxicity of nano- and micro-sized iron particles in adult albino rats
  G. Hasabo - Cairo (EG)

- Presumptive mycotoxicosis in dog after eating mouldy walnuts
  M. Kammerer - Nantes (FR)

- Non-convulsive status epilepticus – translational research cases: humans and dogs
  L. Reeve-Johnson - Brisbane (AS)

15:30-16:00 Tea break - Poster session

Mezzanine - R2 Foyer Haut

16:00-17:00 Plenary Lecture

Translational Pharmacokinetics/Pharmacodynamics (PKPD) and Systems Pharmacology in Drug Discovery and Development

Piet van der Graaf - Leiden (NL)

17:00-18:00 General Assembly EAVPT

Room 200

Congress Dinner

19:00 Bus departure from the congress center
19:15 Boarding for the evening cruise and aperitif
20:15 Arrival by boat at the Château de la Poterie
PARALLEL SESSIONS

08:30-10:15 Pharmacodynamics 3 & Recent and innovative advances
Chairs: G. Abraham and M. Y. Mallem

Oncology: new pharmacological targets
Catherine Ibisch - Nantes (FR)

Short oral communications
The Use of Synovial Fluid Biomarkers to Study Corticosteroid Pharmacodynamics in Exercised Thoroughbred Horses
H. Knych - Davis (US)
Prevention of new bacterial infections of the mammary glands in dairy cows during the dry period using topical administration of chlorohexidine sustained release formulation
E. Lavy - Jerusalem (IL)
Intramammary propolis formulation for prevention and treatment of mastitis in dairy ruminants
L. Radin - Zagreb (HR)

08:30-10:15 Workshop Analgesics
Chairs: P. Flecknell and M. Gogny

New developments in cage-side assessment of pain in laboratory species
Paul Flecknell - Newcastle (UK)

Short oral communications
Covariate identification of propofol pharmacokinetics in maturing guide dogs
J. Del Castillo - Saint-Hyacinthe (CA)
Ultrasound monitoring protocol of intestinal motility in healthy horses after systemic morphine administration
C. Tessier - Nantes (FR)
Cranial spread of 3 volumes of procaïne 2% for caudal epidural analgesia in adult dairy cows
O. Topie-Nikolayenkova - Nantes (FR)
Comparison of xylazine and detomidine for caudal epidural analgesia in cattle
G. Touzot-Jourde - Nantes (FR)
Comparison of methadone and morphine sedation and analgesia in the NZW rabbit
G. Touzot-Jourde - Nantes (FR)

10:15-10:45 Coffee break - Poster session
Mezzanine - R2 Foyer Haut
PARALLEL SESSIONS

10:45-12:30  Ecotoxicology

Chairs: P. Berny and C. Nebbia

Monitoring unintentional effects of plant protection products and other environmental contaminants on non-target species: how can we manage?
Philippe Berny - Marcy-l’Etoile (FR)

Biomarkers of the exposure to dioxin-like compounds in mammalian species
Carlo Nebbia - Grugliasco (IT)

Potential of essential oils in medical and veterinary pest management: Efficacy and modes of action
Olivier Sparagano - Coventry (UK)

Short oral communications

The transdermal permeation of oil at seabirds – a research to estimate the prognosis of rehabilitation to establish a triage after an oil catastrophe
A. Willmes - Niedersachsen (GE)

Resistance to antivitamin K rodenticides: from wild rodents to humans
E. Benoit - Marcy-l’Etoile (FR)

10:45-12:30  Experimental design and Translational Medicine

Chairs: M. Kietzmann and J.-C. Desfontis

Experimental design and the three Rs
Manfred Kietzmann - Hannover (GE)

3R(evolution)s in Toxicological Research
Francesca Caloni - Milan (IT)

Translational medical research: The imperative for One Health Collaborations in pharmacology and toxicology
Lloyd Reeve-Johnson - Brisbane (AS)

12:30-13:15  Plenary Lecture

From cure to care - the changing landscape of veterinary medicine
Johanna Fink-Gremmels - Utrecht (NL)

13:15-14:00  Lunch

14:00-14:30  Awards and best posters

14:30-15:30  Closing ceremony and invitation to Wroclaw, Poland

15:30-17:00  Tour to the Veterinary College Oniris with registration on meeting place