



UNIVERSITÀ DEGLI STUDI DI MILANO

DOTTORATO DI RICERCA IN SCIENZE VETERINARIE E DELL'ALLEVAMENTO



UNIVERSITÀ  
DEGLI STUDI  
DI MILANO



**divas**

DIPARTIMENTO DI MEDICINA  
VETERINARIA E SCIENZE ANIMALI

**Veterinary and Animal Science PhD course  
presents:**

**VAS Days**

**26<sup>th</sup>-29<sup>th</sup> September 2022**

**Event Programme**

**Room L01**

**Department of Veterinary Medicine and Animal Sciences  
Via dell'Università 6, Lodi**





# VAS Days

## 26<sup>th</sup> September 2022

Morning session: [Clinical Sciences](#)

Chairs: Prof. David Eckersall, Tamil Sundaram, Valentina Herrera

9:20 – Opening speech: **Prof. Fabrizio Ceciliani**, VAS Course Coordinator

9:30 – Key Lecture:

<b>Prof. David Eckersall</b> University of Glasgow	Unanswered questions from the boundary of Veterinary Clinical Pathology and Innate Immunity
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PhD students:

10:15 – Vincenzo Ferrulli	Acid-base balance and gas exchange disorders and their association with bovine respiratory disease: a strong ion approach
10:30 – Kajsa Gustafsson	Antimicrobial intravenous regional limb perfusion (IVRLP) in horses
10:45 – Chiara Maria Lo Feudo	Evaluation of lung mechanics after exercise in racehorses in association with lower airway inflammation
11:00 – Coffee break	
11:30 – Francesco Ferrari	Investigation of the use 3d printed feline skulls on radiographic interpretation of traumatic injuries in veterinary students
11:45 – Alberto Galizzi	Aldosterone as a marker of heart diseases in dogs: a challenging interpretation
12:00 – Sara Ghilardi	Predictive significance of a plasmatic microRNA in the Cavalier King Charles Spaniel affected by myxomatous mitral valve disease
12:15 – Filippo Tagliasacchi	Thyroid function assessment in the bitch: Is the stage of estrus affecting my results?
12:30 – Federica Alessandra Brioschi	Comparison of intraperitoneal and incisional lidocaine or ropivacaine for postoperative analgesia in dogs undergoing major abdominal surgeries: a preliminary study



# VAS Days

## 26<sup>th</sup> September 2022

Afternoon session: **Pathology and Immunology**

Chairs: Prof. Eric Cox, Matteo Dell'Anno, Federica Alessandra Brioschi

14:00 – Key Lecture:

<b>Prof. Eric Cox</b> Ghent University	Studying the intestinal immune response in pigs using virulence factors of enterotoxigenic <i>E. coli</i>
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PhD students:

14:45 – Luca Bertola	Sex-Dependent modulation of caerulein-induced acute pancreatitis in C57BL/6J mice: histopathological and immunohistochemical characterization
15:00 – Alessia Inglesi	Evaluation of the immunogenicity of a new inactivated oral vaccine against enterotoxigenic <i>Escherichia coli</i> infections in post-weaning piglets
15:15 – Andrea Cappelleri	Assessing immunodeficiency in murine models
15:30 – Gabriele Ratti	Faecal carriage of extended-spectrum beta-lactamases- and AmpC-producing <i>Escherichia coli</i> in stray cats: genetic characterization and risk factors
15:45 – Laura Bianchessi	Gamma herpes viruses of livestock and zoological species and how to identify them
16:00 – Coffee break	
16:30 – Patricia De Faria Lainetti	Mechanisms of chemoresistance in mammary gland tumor cells
16:45 – Eleonora Brambilla	Periostin expression in cancer associated fibroblast in canine urothelial carcinoma of the urinary bladder: a pilot study
17:00 – Francesco Godizzi	Preliminary assessment of survivin, $\beta$ -catenin and ki-67 immunohistochemical expression in canine perivascular wall tumors



# VAS Days

## 27<sup>th</sup> September 2022

Morning session: **Embryology, Development and Reproduction**

Chairs: Dr. Pablo Bermejo-Alvarez, Eleonora Brambilla, Marta Comin

9:00 – Key Lecture:

**Dr. Pablo Bermejo-Alvarez**

El Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria | CRISPR applications in livestock research

PhD students:

9:45 – Giulia Musmeci	Development of an <i>in vitro</i> model to investigate the effects of nutrient imbalance and hormones on bovine embryos
10:00 – Magdalena Ladron de Guevara	Somatic signals regulate the PI3K/AKT/mTOR pathway in bovine oocytes
10:15 – Isa Mohammed Alkali	Ovarian tissue banking in bovine and feline models
10:30 – Sai Kamal Nag Bonumallu	Effects of modulation of reactive oxygen species in bovine early embryonic development: a preliminary study
10:45 – Noemi Monferini	Improvement of <i>in situ</i> culture system of bovine primordial follicles
11:00 – Coffee break	
11:30 – Pritha Dey	Development of an efficient and effective culture system for the isolation and culture of bovine primordial follicles
11:45 – Teresina De Iorio	Aging of the extra-cellular matrix and its influence on cell behaviour
12:00 – Valentina Herrera	A new strategy for 3D meniscal fibro-chondrocyte differentiation in pigs
12:15 – Margherita Pallaoro	Post-natal development of skeletal muscles in Nero di Lomellina and Large White newborn piglets: a morpho-functional and molecular comparative study



# VAS Days

## 27<sup>th</sup> September 2022

Afternoon session: **Nutrition, Sustainability and One Health (part I)**

Chairs: Dr. Mike Salter, Martina Penati, Eleonora Buoio

14:00 – Key Lecture:

<b>Dr. Mike Salter</b> AB Agri Ltd	Commercial Research: The Easy Option?
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PhD students:

14:45 – Chiara Gini	The effects of essential oil <i>Thymbra capitata</i> on the skin microbiota composition of the cow udder
15:00 – Alessia Facchin	Detection of ESBL and AmpC-producing <i>E. coli</i> isolates from dogs: prevalence and risk factors
15:15 – Sara Fusar Poli	Effect of sample storage conditions on microbiological results obtained for different bedding materials
15:30 – Anoar Jamai Masroure	Selective dry cow therapy in the Parmigiano Reggiano area and in grazed pastures in Valle D'Aosta
15:45 – Francesca Bernini	Selection for mastitis resistance: a possible new approach
16:00 – Coffee break	
16:30 – Shuvo Singha	The buffalo milk value chain in Bangladesh
16:45 – Luigi Danesi	Presence of chlorate and perchlorate residues in raw bovine milk from Northern Italian farms
17:00 – Giacomo Mosconi	Incidence of perfluoroalkyl substances in Mediterranean sea and North Italian lake fish, food safety implications
17:15 – Susanna Draghi	Wild animals as bioindicators: the use of wildlife for monitoring the presence of environmental pollutants and trace elements in pastures
17:30 – Anna Francesca Corradini	Do hunters underestimate the risk of foodborne diseases linked to wild game meat consumption? Evaluation of the presence of optimistic bias



# VAS Days

## 28<sup>th</sup> September 2022

Morning session: Nutrition, Sustainability and One Health (part II)

Chairs: Prof. Luciano Pinotti, Shuvo Singha, Francesca Bernini

9:00 – Key Lecture:

<b>Prof. Luciano Pinotti</b> University of Milan	Insects as Feed: basic concepts, recent issues, and future challenges
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PhD students:

9:45 – Matteo Dell'Anno	Combination of innovative dietary feed additives to prevent post-weaning diarrhoea and modulate gut microbiota in piglets
10:00 – Silvia Sandrini	Effects of a commercial product composed by three inactivated yeasts on growth performance and fecal microbiota of post-weaning piglets
10:15 – Luca Marchetti	Nutritional strategies to optimize the integration of weaning piglet diets with trace elements to promote intestinal health and reduce environmental impact
10:30 – Serena Reggi	Genetic engineering of <i>Lactococcus lactis</i> producing porcine <i>Escherichia coli</i> antigens
10:45 – Irene Ferri	Research of innovative growth substrates for the production of functional flours from <i>Tenebrio molitor</i> larvae
11:00 – Coffee break	
11:30 – Luiz De Matos	Heat stress and exosomes: effects on CD14+ cells
11:45 – Nida Irshad	The role of hydrolyzed yeast in poultry diet: effects on growth performance and meat quality
12:00 – Federica Camin	Matrigel and collagen based co-culture in aquaculture: comparison of two <i>in vitro</i> intestinal models
12:15 – Marta Comin	Evaluation of feasibility of animal-based indicators of stunning at slaughter to improve sheep welfare
12:30 – Eleonora Buoio	Smart technologies for water remediation in aquaculture for sustainability
12:45 – Martina Penati	Feeding waste milk to calves: which are the consequences on gut health, microbiome development, and antimicrobial resistance?



VAS Days  
28<sup>th</sup> September 2022

Afternoon session: MANNA

Chair: Dr. Andre de Almeida

14:00 – Key Lecture

<b>Dr. Andre Almeida</b>	Algae and Microalgae in piglet and poultry nutrition: from farm to proteomics
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PhD students:

14:45 - Xuan Nguyen	n6/n3 Fatty acid (FA) ratio effect on piglet microbiome and immunity
15:15 - Rafaela Ferreira	miRNomics, proteomics, and lipidomics of sow's milk exosomes
15:45 - Yron Manaig	Effect of dietary lipids on porcine meat quality (intramuscular fat content and composition)
16:15 – Coffee break	
16:45 – Punit Tyagi	Development of a bioinformatics platform for analysing big data from Omics analyses – Omnalysis
17:15 – Gabriela Avila Morales	Nutrition and immunity: molecular approaches – Thesis discussion



VAS Days  
29<sup>th</sup> September 2022

Morning session: **MANNA**

Chair: Prof. Filippa Addis

9:00 – Key Lecture:

<b>Prof. Filippa Addis</b> University of Milan	The microbiota-gut-brain axis and its influence on animal behavior and welfare
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PhD students:

09:45 – Francesca Riva	Chicken proteomic and metabolomics biomarkers for production, health and welfare
10:15 – Jorge Peinado	Protein synthesis rates, effect of diet, health and innate immune responses in chicken
10:45 – Ruben Riosa	Assessment of the effects of increased intakes of the amino acid methionine (Met) during the first weeks of lactation and during early pregnancy in dairy cows
11:00 – Jonathan Statham	The importance of future fundamental research on sustainable livestock health to enhance food security and 'One Health' in a destabilised world
11:45 – Coffee break	
12:00 - Arash Veshkini	Importance of supplying dairy cows with essential fatty acids (EFA) and conjugated linoleic acids (CLA) during the transition period on metabolism and health
12:30 – Yixin Huang	A Mixture of Host, Dietary and Microbial Proteins in Bovine Faeces Revealed by TMT-based
13:00 – Tamil Sundaram	Establishing novel <i>in vitro</i> intestinal epithelial cell models in animal nutrition





VAS Days  
29<sup>th</sup> September 2022

Afternoon session: MANNA

Chair: Dr. Ingrid Miller

14:00 – Key Lecture

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<b>Dr. Ingrid Miller</b>	Good Food?
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Glasgow PhD students:

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14:00 – Lauren Black	Investigating the pathological mechanisms of canine degenerative myelopathy: potential involvement of extracellular vesicles?
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14:30 – Rheinalt (Reg) Jones	Faecal indicators of health and performance in ruminants?
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15:00 – Coffee break	
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15:30 – Management Meeting	
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