



EAVLD 2024

7th Congress of the
European Association of Veterinary
Laboratory Diagnosticians

21st-23rd October 2024

ITALY - PADUA

SCIENTIFIC PROGRAMME



www.eavld.org



ITALY | PADUA

www.eavld2024.org

21st-23rd
October
2024

WELCOME LETTER

Dear Friends and Colleagues,

It is our great pleasure to invite you to the **7th European Congress of the European Association of Veterinary Laboratory Diagnosticians (EAVLD 2024)**, which will be held at the new Congress Center in Padua (Italy) on October 21–23, 2024.

The EAVLD 2024 will bring together a European audience of veterinary laboratory diagnosticians working in all disciplines across the full range of species, with the aim of providing a platform for communication to share the best practices and research discoveries for the future development of veterinary diagnostics.

The Programme will feature lectures, oral communications, posters and debates; in addition, panel discussions will bring together a group of experts that will offer diverse perspectives and encourage audience interaction to share knowledge and experiences. It is a great opportunity to gain valuable insight and encourage future networking opportunities.

The Congress will be held in a unique, contemporary and flexible space, an architectural gem that joins design, functionality and technology, where also sponsored exhibitions will take place. Padua is a welcoming city, rich in places of art (the University Museum, the world's first botanic garden and anatomy theatre) and artistic beauty (the Scrovegni Chapel with frescoes painted by Giotto). The city is the perfect venue for meetings and events and is easily accessible by car, train and plane. Venice, Verona and Lake Garda are within easy reach.

We truly hope you will join us, finally to be all together at EAVLD 2024 for a new and stimulating experience in the world of Laboratory Diagnosticians, where the future of Animal Health, Food Safety, Animal Welfare, Epidemiology, AMR, Genomics, Zoonosis and Vector Borne Diseases will be the core of discussions, and promoting friendship and collaboration among European scientists.

Looking forward to meeting you in Padua.

*Marialaura
Corrente,
EAVLD
President*



*Loredana Baldi,
Congress President*

*Antonia Ricci,
Istituto Zooprofilattico Sperimentale
delle Venezie Director*



Under the Patronage of:



COMMITTEE

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Loredana Baldi

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Mariagrazia Zanoni
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Luca Bargelloni
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Antonio Parisi
Jason Sawyer

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Gabriele Meroni
Mattia Pirolo
Anna Salvaggiulo
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Heather Graham
István Kiss
Marzia Pezzolato

KEYNOTE SPEAKERS



Giorgia Angeloni
President of Vétérinaires
Sans Frontières International;
Vicepresident of Veterinari
Senza Frontiere Italia,
Researcher at Research and
International Cooperation
Unit of IZSve



Bernardino Fantini
Honorary Professor of the
History of Medicine and
Health, Geneva Medical
School, University of Geneva



Masatoshi Funabashi
Research Director and
Senior Researcher at
Sony Computer Science
Laboratories, Inc. Tokyo,
Japan



Polychronis Kostoulas
Associate Professor of
Epidemiology, Head,
Laboratory of Epidemiology
& Artificial Intelligence
Faculty of Public & One
Health, University of
Thessaly, Greece



Isabella Monne
WOAH/EU and National
Reference Laboratory for
avian influenza & Newcastle
disease
FAO Reference Centre
for animal influenza and
Newcastle disease
Istituto Zooprofilattico
Sperimentale delle Venezie,
Legnaro (PD) ITALY



Antonio Martinez-Murcia
Professor of Microbiology at
Miguel Hernández University,
Alicante and genetic PCR
solutions



Beatriz Romero Martínez
Director of the EU-RL for bovine
tuberculosis and expert on
mammalian TB by the WOA. H.
VISAVET Health Surveillance
Centre, Complutense University
of Madrid
Assistant professor. Animal
Health Department, Veterinary
Faculty, Complutense University
of Madrid



Dorina Timofte
Professor of Veterinary
Clinical Microbiology
School of Veterinary Science
Institute of Infection,
Veterinary and Ecological
Sciences (IVES),
University of Liverpool, UK

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PROGRAMME



PROGRAMME

21st monday
OCTOBER

| | MANTEGNA AUDITORIUM | PETRARCA ROOM |
|--------------|--|---|
| 8.00 - 8.45 | Registration | |
| 8.45 - 9.15 | Opening Ceremony A. Ricci, L. Bargelloni, M. Drigo, M. Corrente, L. Baldi, G. Filippini | |
| 9.15 - 9.45 | Keynote Lecture <i>Chair: A. Ricci</i> The Many Histories of One Health and the Shift of Animal Welfare from Tool to Aim Bernardino Fantini | |
| 9.45 - 11.15 | Session 1 Epidemiology - Zoonoses <i>Chairs: A. Parisi, E. Bozzetta</i> Business Intelligence Tools to Enhance Antimicrobial Stewardship: The Role of Diagnostic Laboratories in Producing Useful and Comparable Data S. Catania African Swine Fever in wild boars: evaluation of the speed of advancement of the infection front in areas with different ecological features of the province of Pavia V. Cappa Comparing apples to oranges: Using social research to harmonize veterinary clinic diagnostic practices M. Zago A Bayesian approach to inter-laboratory diagnostic test evaluation for serological assays V. Ahlberg | Session 2 New Diagnostic Technologies <i>Chairs: G. Angeloni, A. Martinez-Murcia</i> Could Calliphoridae serve as a possible bovine viral diarrhoea virus (BVDV) mechanical vector and reservoir? Preliminary results of an insect competence study F. Crescenti Simultaneous Detection of Antigen and Antibodies of African Swine Fever in a Novel Combo Lateral Flow Assay C. Galán Creating a Dataset and Enhancing Bovine Herpesvirus 1 CPE Detection through Artificial Intelligence Z. Akkutay-Yoldar Multi-platform investigation of Bovine Respiratory Disease-related microbial communities among Southern Italy farms and slaughterhouses S. Castellana |

| | MANTEGNA AUDITORIUM | PETRARCA ROOM |
|---------------|--|--|
| | Genetic diversity of Shiga toxin-producing <i>Escherichia coli</i> from free-ranging red deer S. Lauzi First detection of <i>Leptospira</i> interrogans serovar Canicola in Caracal caracal: a threat to zoo animals and workers? G. Sgroi | TB or not TB – that's the question/ improved intra-vitam diagnostics in a bovine Tb outbreak herd C. Schroeder Improving the ante-mortem diagnosis of caprine tuberculosis through the use of specific antigens for in vitro diagnostic platforms C. Velasco Reinaldos |
| 11.15 - 11.45 | Coffee Break and Poster Session | |
| 11.45 - 12.15 | Keynote Lecture <i>Chair: A. Ricci</i> High Pathogenicity Avian Influenza (HPAI): expect the unexpected Isabella Monne | |
| 12.15 - 13.15 | Early Career Researcher - Session 1 <i>Chairs: G. Meroni, M. Pirolò</i> Epidemiology of antimicrobial resistance in the monophasic variant of <i>Salmonella</i> Typhimurium P. Carrizo Coronad Poultry Supply Chain Impact on Campylobacteriosis Surveillance in Italy Over One Year R. Di Romualdo Subclinical mastitis in Lacaune and crossbreed sheep from farms in central Greece. Etiologic agents, effect on milk characteristics, and evaluation of infrared thermography as a diagnostic tool M. Lysitsas Circular economy and antimicrobial resistance: assessment of the impact on the agri-food systems G. Barbieri Salmonella proficiency tests, the experience of the Italian National Reference Laboratory G. Cento | |

MANTEGNA AUDITORIUM

13.15 - 14.15 Lunch and Poster Session

14.15 - 15.15 **Early Career Researcher - Session 2**

Chairs: A. Salvaggiulo, F. Zendri

Predicting Lung Viral Load in Vaccinated Pigs Exposed to Influenza A Virus using cytokine expression analysis of whole blood stimulation

G. Fantoni

Evaluation of five ELISA kits for the serological diagnostics of Enzootic Bovine Leukosis

Z. Zurovac Sapundžić

Advancing ASF Diagnosis: Insights from non-HAD Genotype II African Swine Fever Viruses in the EU (2017-2022)

N. Casado

Evaluation of alternative samples and protocols for serological monitoring of avian influenza vaccination in duck flocks

M. Walch

Acute Infection Dynamics of Domestic Cat Hepadnavirus (DCH)

F. Pellegrini

15.15 - 16.45 **Session 3 Animal Health**

Chairs: D. Galante, J. Sawyer

Field comparison of ASFV target tissues and non-invasive samples in wild boars during the genotype II Italian epidemic

S. Zoppi

Identification and characterization of protoparvovirus carnivoran1 strains circulating in iberian lynxes (*Lynx pardinus*)

G. Diakoudi

A multidisciplinary approach to characterize a *Salmonella enterica* serovar Enteritidis unusual outbreak in fenced Iberian ibex (*Capra pyrenaica*)

M. Perez-Sancho

Evaluation of in vitro antiviral activity of fungal secondary metabolites against bovine coronavirus

P. Capozza

Prevalence of *Mycoplasma equigenitalium* in Martina Franca (Italy) and Andalusian (Spain) donkey populations

M.S.M. Yusuf

16.45 - 17.15 **Keynote Lecture**

Chair: M. Corrente

Phylogenetic diversity and current taxonomy of the genus *Mycobacterium*: consequences for the diagnosis of tuberculosis

Antonio Martinez-Murcia

17.30 - 18.30 Welcome Cocktail

22nd tuesday
OCTOBER

MANTEGNA AUDITORIUM

9.00 - 9.30 **Keynote Lecture**

Chair: N. Decaro

Challenges and new initiatives in veterinary clinical microbiology

Dorina Timofte

9.30 - 11.00 **Session 4 Food Safety - Genomics**

Chairs: L. Barco, V. Michelacci

Identification of food adulteration by the examination of species-specific DNA in commercial meat products, by multiplex real-time PCR

D. Johnston

MALDI-TOF and Machine Learning: preliminary results of *Campylobacter jejuni* sub-typing

V. Indio

First report of stx2k-producing *E. coli* strains from food in Europe, 2015

G. Nobili

Bacterial communities in a fish-farm under intensive production conditions

S. Reale

LeishGenApp and LeishGenR, two novel diagnosis platforms to detect CNVs as drug-resistance biomarkers in *Leishmania infantum* from cultures and clinical samples

M. Carrasco-Martin

Deciphering the evolution of the Arctic-like lineage of Canine Distemper Virus

Z. Lanszki

11.00 - 11.30 Coffee Break and Poster Session

11.30 - 12.00 **Keynote Lecture**

Chair: V. Ahlberg

Latent Class Models: Validation of Diagnostics without a Reference Test

Polychronis Kostoulas

MANTEGNA AUDITORIUM

PETRARCA ROOM

12.00 - 13.00 Company Symposium
BIOMERIEUX
bioMérieux Molecular innovative approach for food testing application

*Chair: E. Biasibetti
J.P. Tourniaire*

Company Symposium
HOLOGIC
Cross-cutting Technology: a supporting answer to the One-Health Paradigm

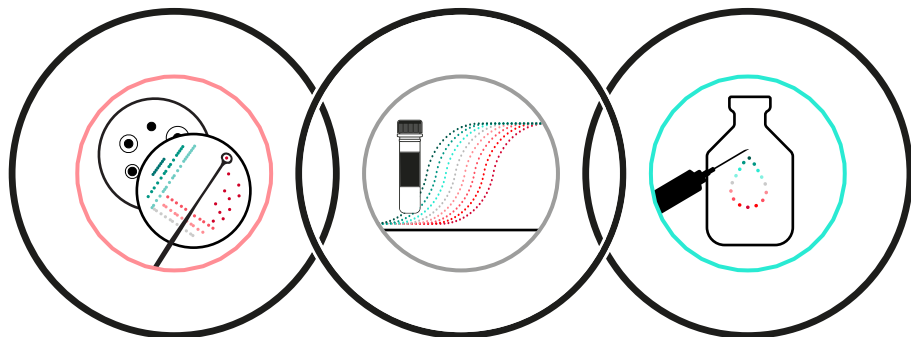
*Chair: A. Ricci
E. Ciarrocchi, R. Irelli,
P. Bottino*

| MANTEGNA AUDITORIUM | |
|---------------------|--|
| 13.00 - 14.00 | Lunch and Poster Session |
| 14.00 - 14.30 | <p>Keynote Lecture <i>Chair: L. Baldi</i> One Health, many lives: practical implementation cases in the Global South Giorgia Angeloni</p> |
| 14.30 - 15.30 | <p>Company Symposium IDEXX Paratuberculosis Testing and Practical Approach <i>Chair: P. Mazzone</i> E. Stellbrink, N. Taylor</p> |
| 15.30 - 16.00 | Coffee Break and Poster Session |
| 16.00 - 17.30 | <p>Session 5 Miscellaneous <i>Chairs: H. Graham, N. Pozzato</i> A case of acute intoxication by the ornamental plant <i>Pieris japonica</i> in a goat farm: toxicological screening by direct introduction high resolution mass spectrometry (DART-HRMS) in a diagnostic setting A. Leone A field trial characterization of wild boar post-mortem interval to support African Swine Fever detection G. Assirelli Coxiella burnetii-specific IFNγ and antibody responses to naturally-acquired infection in dairy cows L. O'Shannessy Electrochemotherapy for Feline Squamous Cell Carcinoma treatment: Novel insights into immune response F. Dell'Anno Circulating microRNA: biomarkers for early diagnosis of bovine Paratuberculosis P. Mazzone VKORC1 mutations in rodents from Emilia-Romagna, Northern Italy A. Reggiani</p> |

| | MANTEGNA AUDITORIUM | PETRARCA ROOM |
|---------------|-----------------------|------------------------|
| 17.30 - 18.15 | EAVLD General Meeting | SIDiLV General Meeting |
| 19.30 | Congress Dinner | |

23rd wednesday
OCTOBER

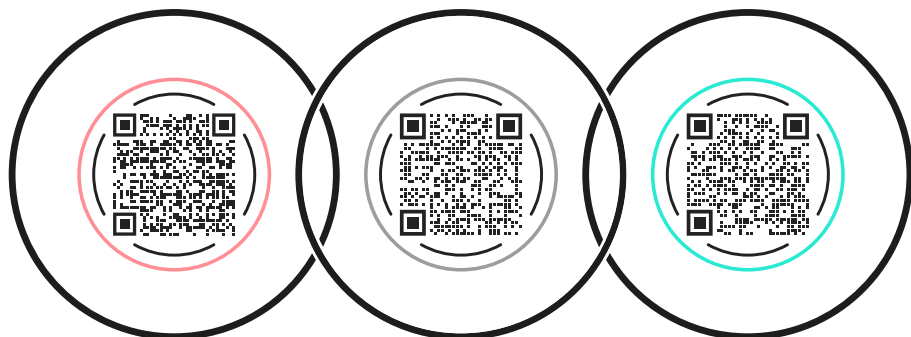
| MANTEGNA AUDITORIUM | |
|---------------------|--|
| 9.00 - 9.30 | <p>Keynote Lecture <i>Chair: B. Boniotti</i> Diagnostic limitations in controlling the recurrence of bovine tuberculosis in European countries Beatriz Romero Martínez</p> |
| 09.30 - 10.45 | <p>Session 6 Animal Health - Antimicrobial Resistance <i>Chairs: G. Elia, M. Pezzolato</i> African swine fever: current epidemiological situation in Europe and in Italy F. Feliziani Brucella suis outbreak in an Austrian pig farm - Tracing potential spill-over from wildlife using Whole Genome Sequencing M. Gonano Gastrointestinal nematodes in cattle and sheep farms of the Campania region: evaluation of anthelmintic resistance L. Baldi Molecular identification of trichophyton indotineae strains isolated in Italy and evaluation of terbinafine resistance or susceptibility D. Cruciani A Novel Arterivirus in Fatal Encephalitis of European Hedgehogs in England N. Inglese A multicentric European epidemiological study for Feline Circovirus 1 in domestic cats A. Salvaggiulo</p> |
| 10.45 - 11.00 | <p>Company Symposium INDICAL <i>Chair: S. Reale</i> Enabling rapid responses: Streamlined molecular workflows for outbreak situations L. Murphy</p> |
| 11.00 - 11.30 | <p>Keynote Lecture <i>Chair: L. Baldi</i> From One Health to Planetary Health: towards an ecosystem-based approach to food production and public health with Synecoculture Masatoshi Funabashi</p> |
| 11.30 - 12.00 | Coffee Break and Poster Session |
| 12.00 - 12.50 | Highlight - Awards Ceremony - Closing Ceremony |
| 15.00 | Optional Tour |



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SOCIAL PROGRAMME

CONGRESS DINNER

Tuesday 22nd October 2024 – 19.30

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Accompanying Person

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POST CONGRESS TOUR

Wednesday 23rd October 2024 – 15.00 (visit lasts 45 minutes)

A visit to PALAZZO BO

€ 10,00 vat included

“Allowing that the honour of being home to the scientific revolution might be said to belong to one single place, that place is Padua.”

– (H.Butterfield, Harvard University, 1958)

The visit includes: Palazzo Bo, The Old Court And The Heraldic Crests, The Great Hall, The Sala Dei Quaranta, Galileo's Rostrum, The Medice Hall.

The tour will start directly from Palazzo Bo.



REGISTRATION FEES

All delegates must register for the congress.
Registration fees are as follows

| ONSITE REGISTRATION at the registration desk | |
|---|----------|
| EAVLD/SIDiLV Member | € 520,00 |
| ECVM/ESGM Member | € 530,00 |
| Non member | € 580,00 |
| PhD Student | € 410,00 |
| Degree Student | € 280,00 |

VAT 22% included
*Members are required to show their membership ID during the registration process. Students are required to show their Student ID during the registration process.

PERSONAL INVITATION FOR VISA PURPOSES

To facilitate congress attendance a personal invitation can be sent on request. This invitation does not exempt the recipient from registering and paying the proper congress fee. Please inform the congress secretariat if you need a personal invitation letter. Registration fees and charges for all events related to the EAVLD Congress 2024 must be paid in euros.

INVOICING

When filling out the registration form we strongly recommend to pay particular attention to the Invoicing page.

Before registering, carefully check who the invoice shall be headed to and make sure you have all relevant information:

- header
- address
- VAT code
- fiscal code (for Italians only)
- PO number (if required)

Make sure the invoice details you are going to indicate are the correct ones.

In case of requests for data corrections and/or invoice re-issuing due to wrong data submission, the Organizing Secretariat will apply a fee of € 50,00 for each new document re-issued, which shall be paid in advance.

REMITTANCE

Registration fees shall be paid onsite by credit card or cash.

CANCELLATION AND REFUND

Cancellations must be sent to federica.donzelli@vetinternational.eu.

The amount equal to 50% of the fee paid will be refunded for cancellations received by 30th August 2024.

After that date no refunds will be issued.

All refunds will be paid in euros after the congress.

CANCELLATION OF THE CONGRESS

The congress secretariat reserves the right to cancel the congress, shift venue or change dates without notice in case of "force majeure". Neither VET International nor the Congress Organising Committee shall be liable for any damage claims.

LIABILITY AND INSURANCE

Registration fees do not include the insurance of participants against personal accidents, sickness and cancellations by any party, theft, loss or damage to personal possessions. Participants are advised to take out adequate personal insurance to cover travel, accommodation, cancellation and personal effects.



ABSTRACT

Congress delegates are cordially invited to submit abstracts of their scientific work for presentation as a free communication at EAVLD 2024.

A limited number of abstracts will be selected for oral presentation during congress symposia.

Following the evaluation process, abstracts that are not selected as oral by the EAVLD 2024 Scientific Committee may be presented as posters.

Confirmation of receipt

Receipt of the abstract will be acknowledged by e-mail immediately after submission.

Notification of acceptance or rejection

Authors will be notified of acceptance or rejection.

Registration

The presenting author of each abstract must register for the congress [by the Early Bird Registration \(Until August 30th\)](#)

General requirements

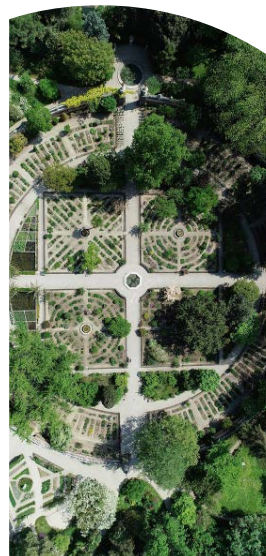
The text must be clear, concise, and written in proper English.

The content must not have been previously published in academic journals or subject to peer review.

Each presenting author can present maximum 1 abstract.

TOPICS

- Animal health
- Animal welfare
- Antimicrobial resistance / Susceptibility testing
- Biosecurity in animal health
- Emerging and re-emerging diseases
- Epidemiology / Risk analysis and communication
- Exotic diseases in developed countries
- Food Safety
- Forensic diagnostics
- Genomics
- Immunology and vaccines
- Laboratory animals
- New Diagnostic Testing Technologies
- Proficiency Testing – participant and organizer perspective
- Zoonoses / Vector borne diseases
- Miscellaneous



Animal &
Plant Health
Agency



The Animal and Plant Health Agency (APHA) is part of the UK Government

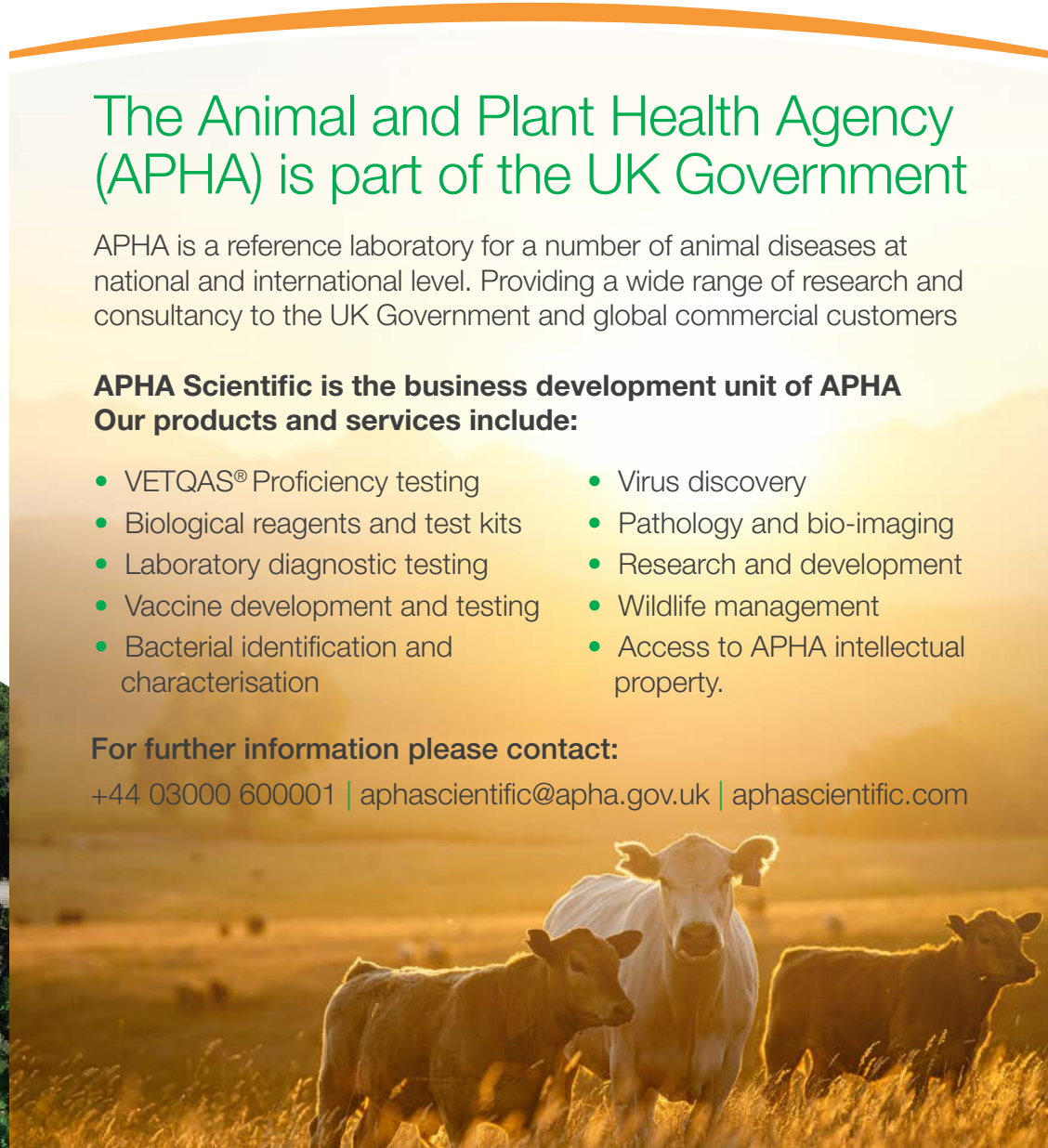
APHA is a reference laboratory for a number of animal diseases at national and international level. Providing a wide range of research and consultancy to the UK Government and global commercial customers

APHA Scientific is the business development unit of APHA
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- Virus discovery
- Pathology and bio-imaging
- Research and development
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For further information please contact:

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GENERAL INFORMATION

REGISTRATION DESK

The registration desk will be located at the entrance and it will be open at the following times:

Monday, 21st October 2024, 8.00 - 17.30

Tuesday, 22nd October 2024, 8.30 - 18.30

Wednesday, 23rd October 2024, 8.30 - 13.00

CONFERENCE LANGUAGE

The official language of the conference is English.
Simultaneous translation is not provided.

NAME BADGE

A name badge will be required to access to the conference area.
Participants will receive a name tag when they check in at the registration desk.
Delegates and exhibitors must display the official badge at all time.

WIFI

The WiFi access is free for all attendees and accessible in all the Venue areas during conference days.

Network: CC-OSPITI
Password: 4488***555*****

CERTIFICATE OF ATTENDANCE

A certificate of attendance will be issued to properly registered attendees.
Certificates of attendance will be sent by email after the conference.

CLOAKROOM

The cloakroom is provided.

PHOTO

We inform you that during the event photos will be taken.
We kindly ask those who do not want to be photographed to inform the organizing secretariat.

A unique, contemporary and flexible space.
An architectural gem that joins design, functionality and technology. An internationally oriented venue that can host events for up to 3,334 people. Just a few steps from the vibrant historic center of Padua, steeped in art and culture, and under 30 minutes from Venice, the new Padova Congress center – the largest in the Veneto – is the ideal destination for congresses, big events, corporate conventions, meetings, galas.

How to reach

BY TRAIN

Padua can be easily reached by train. It is 2 hours from Milan, an hour and a half from Bologna and only 20 minutes from Venice and Vicenza. The train station is about 500 meters from the congress center.

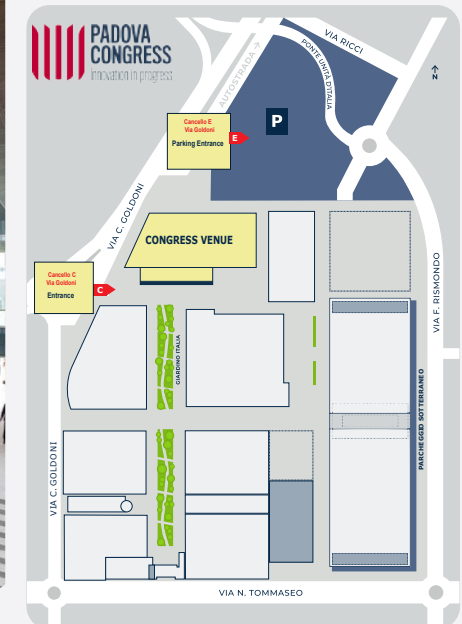
BY PLANE

The nearest airport is Marco Polo International Airport in Tessera, Venice, which can be reached in about half an hour by highway.

BY CAR

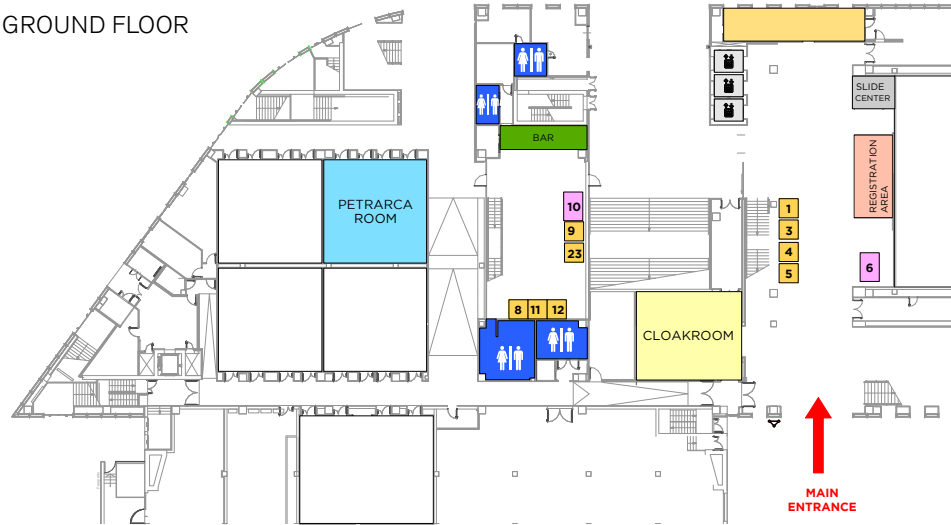
From the Milan-Venice (A4) highway, take the Padova Est exit then follow signs for the Fiera. From the Bologna-Padua (A13) highway, take the Padova Sud exit then follow signs for the Fiera. The Congress Center offers ample parking facilities: in addition to the 1,400 spaces available on the exhibition grounds, there are 800 external spaces.

CONFERENCE VENUE
Padua
Congress Center
Via N. Tommaseo 59
35131 Padua (Italy)

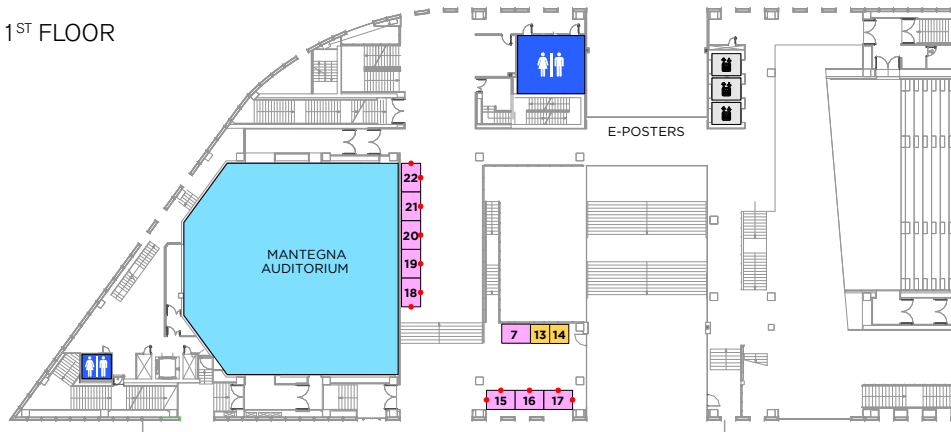


EXHIBITON AREA

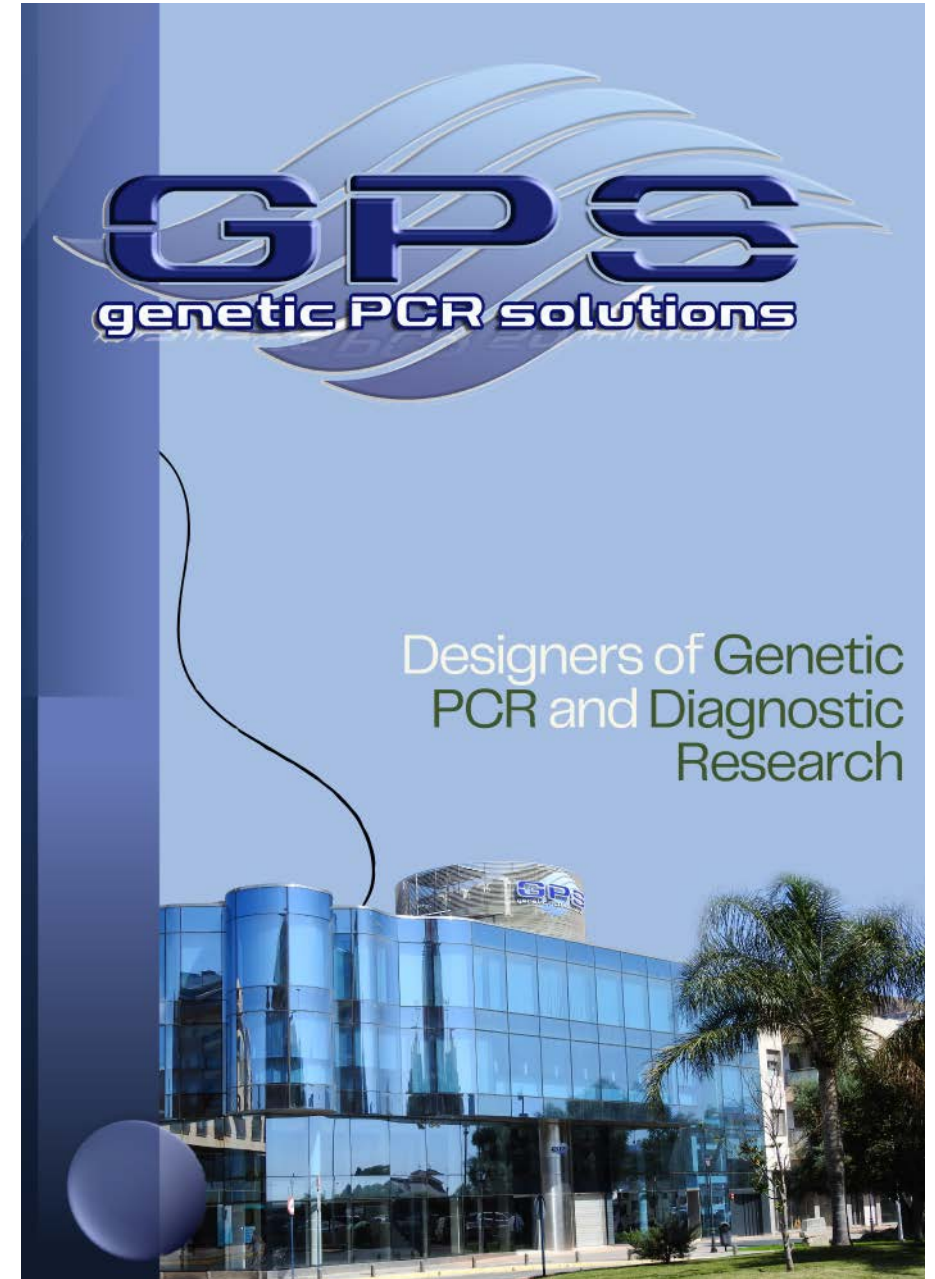
GROUND FLOOR



1ST FLOOR



- | | | | |
|----|---------------------------|----|--------------------------|
| 19 | APHA SCIENTIFIC | 11 | IN3DIAGNOSTIC |
| 13 | BBI SOLUTIONS | 15 | INDICAL BIOSCIENCE |
| 6 | BIO-RAD | 16 | INNOVATIVE DIAGNOSTICS |
| 9 | BIOSELLAL | 4 | ISWAVLD CALGARY 2025 |
| 7 | BIOVET | 14 | MEDIAN DIAGNOSTICS |
| 23 | BRUKER ITALIA | 10 | MEGACOR DIAGNOSTIK |
| 18 | ENALEES | 20 | PROMEGA ITALIA |
| 17 | ENDER DIAGNOSTICS | 5 | QIAGEN |
| 21 | EXOPOL | 1 | TETRA CORE |
| 12 | GOLD STANDARD DIAGNOSTICS | 3 | THERMO FISHER SCIENTIFIC |
| 22 | IDEXX | 8 | VMRD |



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ANIMAL HEALTH

P001

Enhancing Defense: The Role of Adjuvants in FMD Vaccination of Buffalo Calves

Q. Akram, M. Ahsan Naeem, M. Younas, M. Rizwan Saeed

P002

Comparison of diagnostic tools for calf diarrhea in flanders

L. Allais, E. Van Driessche, N. Botteldoorn, J. Schaep, T. Vanblaere

P003

Pathosense as a diagnostic tool to unravel PCV2 – porcine Parvovirus coinfections

L. Allais, C. Bonckaert, E. Van Driessche, N. Botteldoorn, J. Schaep, H. Nauwynck, S. Theuns, T. Vanblaere

P004

The molecular epidemiology of feline Parvovirus infections in cats

T. Fedai, C.U. Aslan, G. Acar, F. Dogan, S. Bilge Dagalp

P005

Survival at +4°C, +20°C and +37°C of Italian genotype I and II African Swine Fever strains

R. Biccheri, M. Pela, A. Felici, C. Maresca, F. Feliziani, M.S. Beato

P006

Typing of APEC isolates revealed an outbreak of broiler colibacillosis caused by ST23 O78:H4 in Finland

M. Biström, T. Lienemann, T. Pohjanvirta, P. Vennerström

P007

Application of Next Generation Sequencing (NGS) technologies for the identification and characterization of Apis mellifera microbiota in Italy

F. Bordin, A. Peruzzo, G. Zamperin, M. Bertola, E. Palumbo, A. Milani, M. Orsini, A. Fusaro, P. Mogliotti, M.P. Cerioli, G. Formato, L. Ricchiuti, A. Cerrone, P. Troiano, A. Salvaggio, A. Pintore, F. Mutinelli, A. Granato

P008

Whole Genome Sequencing and characterization of Antibiotic Resistance Genes in Brucella strains isolated from Water Buffalo in Southern Italy during 2019 - 2021: a preliminary study

M.G. Riccardi, R. Paradiso, A. Rinaldi, B. Cecere, A. Cerrone, F. Bove, G. Fusco, G. Borriello

P009**Prevalence of *Streptococcus equi* subsp. *zooepidemicus* in Martina Franca and Andalusian donkey populations**

M. Burgio, G.G. Aiudi, M.S.M. Yusuf, J.V. Delgado Bermejo, C. Rivas López, A. Carbonari, M.S. Lucente, V. Landi, M. Corrente, M. Tempesta, G. Greco

P010**Development of a diagnostic pipeline for equine Papillomaviruses**

P. Capozza, A.A. Omar, F. Pellegrini, V.I. Vasinioti, A. Salvaggiulo, L. Occhiogrosso, G. Patruno, P. Pinto, G. Diakoudi, M. Camero, N. Decaro, A. Alberti, G. Lanave, V. Martella

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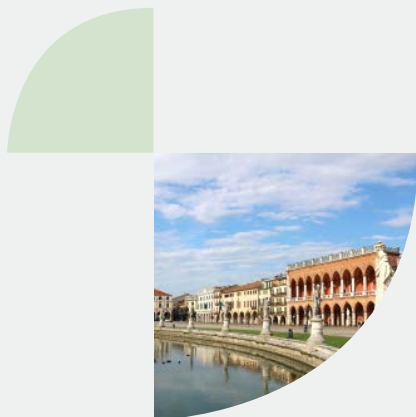
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