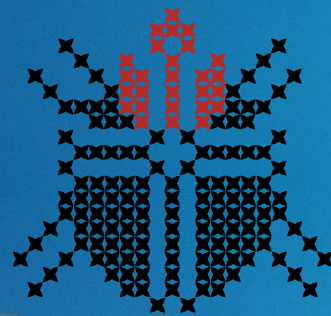
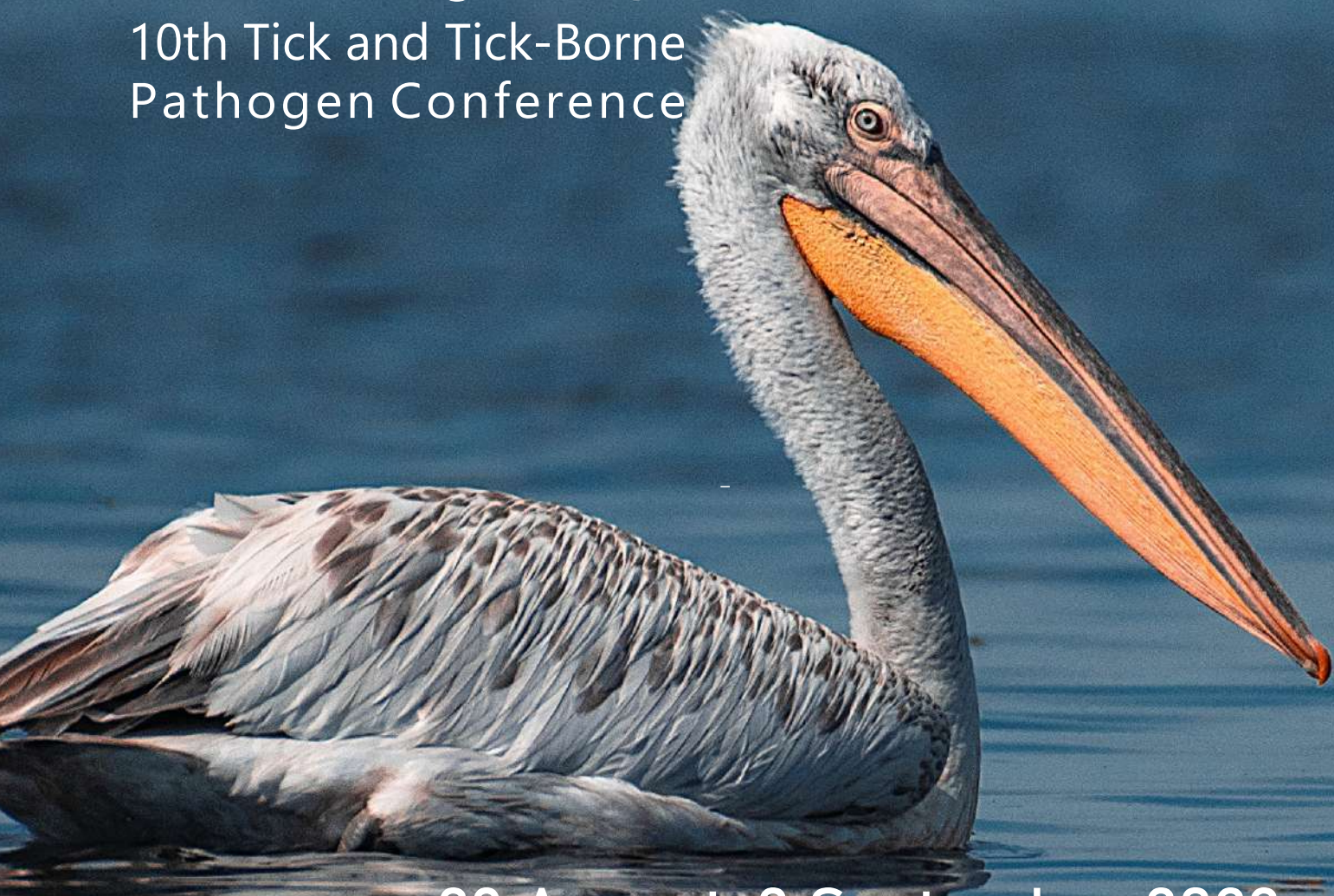




TTP.10

10th Tick and Tick-Borne
Pathogen Conference



29 August-2 September 2022
Murighiol, Danube Delta, Romania



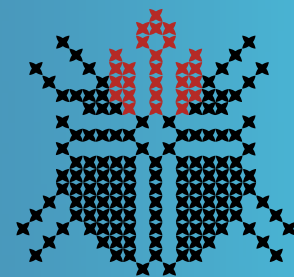
Elanco

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Program

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10th Tick and Tick-Borne
Pathogen Conference



Platinum



Elanco

Gold



**Boehringer
Ingelheim**

bioveta



Silver

IDEXX

Bronze

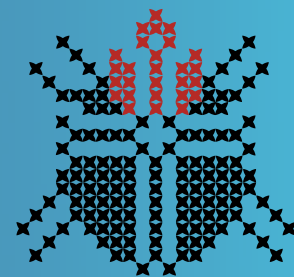


Partner



TTP.10

10th Tick and Tick-Borne
Pathogen Conference



[from the chair]

Dear colleague,

For sure this has been a very challenging event to organize! Given the circumstances, I, on the behalf of the entire organizing committee, would like to sincerely thank you for being part of TTP.10.

You are now in an exceptional location, in one of the most well-preserved wilderness of Europe, the Danube Delta Biosphere Reserve. Together with my team, We would like to welcome you to an equally exceptional scientific event.

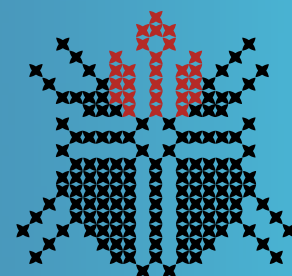
Enjoy every moment, from the scientific program, to the social event and nature view.

Andrei D. Mihalca
Chair TTP.10



TTP.10

10th Tick and Tick-Borne
Pathogen Conference



[at a glance]

Sunday, 28 August 2022

14:00-20:00 Registration
20:00-23:00 Welcome Reception

Monday, 29 August 2022

06:00-08:00 Birdwatching
08:00-20:00 Registration
09:00-09:15 Official opening
09:15-10:45 Plenary talks
10:45-11:15 Coffee break
11:15-13:00 Parallel sessions
13:00-14:30 Lunch
14:30-16:00 Parallel sessions
16:00-16:30 Coffee break
16:30-18:00 Parallel sessions
18:00-19:00 Posters
20:00-22:00 Dinner

Tuesday, 30 August 2022

06:00-08:00 Birdwatching
08:00-13:00 Registration
09:00-09:15 Announcements
09:15-10:45 Plenary talks
10:45-11:15 Coffee break
11:15-13:00 Parallel sessions
13:00-14:30 Lunch
14:30-16:00 Parallel sessions
16:00-16:30 Coffee break
16:30-18:15 Parallel sessions
18:15-19:15 Posters
20:00-22:00 Dinner

Wednesday, 31 August 2022

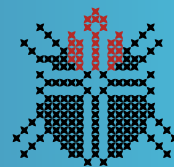
06:00-09:30 Boat trip (Group 1)
09:30-13:00 Boat trip (Group 2)
13:00-14:30 Lunch (All)
14:30-18:00 Boat trip (Group 3)
20:00-23:00 Gala Dinner

Thursday, 1 September 2022

06:00-08:00 Birdwatching
09:00-09:15 Announcements
09:15-10:00 Plenary talk
10:00-10:45 TTP.11 Bids
10:45-11:15 Coffee break
11:15-13:00 Parallel sessions
13:00-14:30 Lunch
14:30-15:45 Parallel sessions
16:00-16:30 Coffee break
16:30-17:45 Parallel sessions
18:00-19:00 Posters
20:00-22:00 Dinner

Friday, 2 September 2022

09:00-11:15 Parallel sessions
11:15-11:45 Coffee break
11:45-12:30 Closing ceremony
12:30-14:00 Lunch



SATURDAY, 27 August 2022

16:00-18:00 Registration

SUNDAY, 28 August 2022

14:00-20:00 Registration

20:00-23:00 Welcome Reception

MONDAY, 29 August 2022

06:00-08:00 Birdwatching

07:30-09:00 Breakfast

08:00-20:00 Registration

09:00-09:15 Official Opening

09:15-10:00 **Plenary talk 1. Chair: Andrei D. Mihalca**
Ixodes ricinus-borne disease risk: disentangling tick and pathogen life cycles
Plenary speaker: Hein Sprong

10:00-10:45 **Plenary talk 2. Chair: Andrei D. Mihalca**
The many scales of the tick-borne pathogen's relationships: an epidemiological tale
Plenary speaker: Agustín Estrada-Peña (recorded talk)

10:45-11:15 Coffee break

11:15-13:00 **Room Prostriata**
ECOLOGY AND EPIDEMIOLOGY #1
Chair: Snorre Stuenkel

Room Metastrata
GENETICS AND GENOMICS #1
Chair: Ladislav Simo

11:15-11:45 **Keynote talk**
Tick-borne relapsing fever caused by *Borrelia persica*, epidemiology, transmission pathways and animal reservoirs
Gad Baneth

Keynote talk
CRISPR-mediated genome editing in *Rhipicephalus microplus* ticks
Ard Nijhof

11:45-12:00 Maternal behaviour in soft ticks
Ronel Pienaar

South African buffalo-derived *T. parva* is genetically divergent from East African strains
Boitumelo Maboko

12:00-12:15 Ticks and tick-borne pathogens in Australia
Stephen Graves

Elucidating tick transmission and sequestration phenotypes in *Babesia bovis* using live vaccines
Ben J. Mans

12:15-12:30 Masting by beech trees predicts the abundance of *Ixodes ricinus* nymphs two years later
Maarten Voordouw

Determining the stage of 'Candidatus' *Mycoplasma haemobos* infection by quantitative Real-Time PCR using SYBR green fluorescent dye
Agina Onyinyechukwu

12:30-12:45 Seasonality of host-seeking *Ixodes ricinus* nymph abundance according to different climates
Thierry Hoch

Full length 16S nanopore sequencing reveals the microbiome of *Ixodes ricinus* ticks for varied UK woodland habitats
Mia White

12:45-13:00 Can *Ixodes ricinus* be neglected any longer in Greece? A case study reveals its dominance in forest habitats of mountain Vermio in northern Greece
Anastasios Saratsis

Novel *Babesia*, *Ehrlichia* and *Hepatozoon* genotypes in white-eared opossums (*Didelphis albiventris*) and associated ticks from Brazil
Marcos R. André

13:00-14:30 Lunch



MONDAY, 29 August 2022

14:30-16:00		Room Prostriata ECOLOGY AND EPIDEMIOLOGY #2 Chair: Ronel Pienaar	Room Metastrata INFECTION AND PATHOGENESIS Chair: Ben J. Mans
14:30-14:45	Tick-borne pathogens in <i>Rhipicephalus sanguineus</i> sensu stricto collected from dogs in the steppe and high plateau regions of Algeria Lidia Chițimia-Dobler		Cholinomimetics-mediated salivary gland secretion in hard ticks - how does it actually work? Ladislav Simo
14:45-15:00	Mediterranean spotted fever: the role of reptiles and arthropod vectors Jairo Alfonso Mendoza Roldan		Insight into complex serotonergic system in the ticks <i>Ixodes ricinus</i> Lourdes Mateos Hernandez
15:00-15:15	Tick-borne pathogens in <i>Hyalomma marginatum</i> (Acari: Ixodidae) collected from animal hosts in the South of France Célia Bernard		Yezo virus, a novel tick-borne Nairovirus associated with acute febrile illness in Japan Keita Matsuno
15:15-15:30	Ticks and tick-borne pathogens in ticks from northern Sweden: data from a frontier area Anna Omazic		Analysis of wild rodent gut microbiota as a function of exposure to ticks and tick-borne pathogens Robert J. Brinkerhoff
15:30-15:45	Tick-borne pathogens, <i>Babesia canis</i> and <i>Borrelia burgdorferi</i> s.l., in sled and companion dogs from Central and North-Eastern Europe Anna Bajer		Pharmacology of two different muscarinic acetylcholine receptors in <i>Ixodes ricinus</i> and their localization in the salivary glands Caina Ning
15:45-16:00	Imported <i>Hyalomma</i> ticks in the Netherlands 2018-2020 Mathilde Uiterwijk		Comparative mapping of protein-protein interactions between tick-borne flaviviruses and their mammalian hosts reveals virus and mammalian host-specific interactions Jennifer P. Richardson
16:00-16:30		Coffee break	
16:30-18:00		Room Prostriata ECOLOGY AND EPIDEMIOLOGY #3 Chair: Gad Baneth	Room Metastrata TAXONOMY AND EVOLUTION Chair: Ard Nijhof
16:30-16:45	Eco-epidemiology of equine piroplasmiasis in French draft horses in an enzootic area Clémence Nadal		Perspectives on Argasid systematics Ben J. Mans
16:45-17:00	<i>Dermacentor reticulatus</i> story in Poland: expanding range, wildlife hosts and vectored pathogens Anna Bajer		Tick evolution from the perspective of <i>Nuttalliella namaqua</i> phylogenomics Ben J. Mans
17:00-17:15	<i>Babesia</i> "sensu lato" in South-Eastern, Central and North-Eastern Europe: emerging and re-emerging tick-borne disease of humans and animals Anna Bajer		In vivo isolation of <i>Babesia aktas</i> n. sp. infecting for goats: morphological, molecular characterization and pathogenicity Sezayi Ozubek
17:15-17:30	<i>Cytauxzoon</i> spp. and <i>Hepatozoon</i> spp. in questing ticks in north-eastern Italy Marika Grillini		<i>Ixodes inopinatus</i> cannot be distinguished from <i>I. ricinus</i> by the sole use of the 16S ribosomal gene Olivier Plantard
17:30-17:45	Molecular detection of vector-borne agents in wild boars (<i>Sus scrofa</i>) and associated ticks from Brazil Marcos R. André		<i>Theileria</i> sensu stricto parasites of cervids: host-related evolution and revised taxonomy Leonhard Schnittger
17:45-18:00	Diversity of <i>Cercopithifilaria</i> spp. in ticks of dogs and cats from Southeast Asia and India Marcos Antonio Bezerra Santos		The Piroplasmida <i>Babesia</i> , <i>Cytauxzoon</i> , and <i>Theileria</i> in farm and companion animals: species compilation, molecular phylogeny, and evolutionary insights Leonhard Schnittger
18:00-19:00		POSTER PRESENTATIONS #1	
P01	The distribution of Ixodidae ticks on domestic animals in south-west Part of Bangladesh Nadira Akhtar		
P02	Seroepidemiological survey and a comparative study of tick-borne pathogens in different cattle breeds in the Barind tract of Bangladesh Nadira Akhtar		
P03	Seasonal activity of Ixodidae ticks on domestic livestock in North-Eastern Barind area of Bangladesh Nadira Akhtar		
P04	Epidemiological survey and a comparative study of the distribution and seasonal activity of cattle (Ixodidae) ticks in the Barind Tract of Bangladesh Nadira Akhtar		
P05	Molecular detection and phylogenetic positioning of <i>Theileria</i> sp. in lowland tapirs (<i>Tapirus terrestris</i>) from Brazil Marcos R. André		



MONDAY, 29 August 2022

- P06 Prevalence and geographical distribution of ticks and tick-borne encephalitis virus in questing *Ixodes ricinus* ticks in Norway
Åshild K. Andreassen
- P07 The situation of theileriosis in the Republic of Armenia in 2019-2020
Georgi Avelisyan
- P08 Mathematical and statistical methods for TBP prevalence calculation in pooled ticks
Michela Bertola
- P09 Tick-borne zoonotic severe fever with thrombocytopenia syndrome virus in Korea
Joon Seok Chae
- P10 Temporal dynamics of *Anaplasma marginale* infection in calves at the wildlife-livestock interface in the Mnisi communal area, Mpumalanga, South Africa
Nicola E. Collins
- P11 First study on piroplasms of bats in Africa reveals the presence in fruit bats of a *Babesia* sp. closely related to *Babesia vesperuginis* in fruit bats
Alexandra Corduneanu
- P12 Update on the interbreeding experiments between European and north-African populations of *Ixodes ricinus* (Acar: Ixodidae)
Thierry De Meeûs
- P13 Development and testing of microsatellite loci for *Ixodes ricinus* population genetics studies
Thierry De Meeûs
- P14 Invertebrate predators and parasitoids of the ixodid ticks in action
Jan Erhart
- P15 improved direct detection of *Babesia bovis* and *B. bigemina* by nested PCR in asymptomatic carrier animals
Monica Florin-Christensen
- P16 Metagenomic analysis of bacterial 16S rRNA in female *Rhipicephalus microplus* ticks from selected provinces in Luzon, Philippines
Remil L. Galay
- P17 Wildlife as sentinels of TBEV circulation and tick infestation in northwestern Italy
Aitor Garcia-Vozmediano
- P18 Membrane feeding as a tool for production of „bacteria-free“ *Ixodes ricinus* ticks
Tereza Hatalova
- P19 The *Hyalomma marginatum* holobiont as a part of the Holis-Tiques project aiming at establishing the invasion history, the spread and associated risks
Charlotte Joly Kukla
- P20 Distribution and ecology of soft ticks in Southern Africa: historical review and recent data analysis
Helene Jourdan-Pineau

20:00-22:00 Dinner (voucher needed)

TUESDAY, 30 August 2022

06:00-08:00 Birdwatching

07:30-09:00 Breakfast

09:00-09:15 Announcements

09:15-10:00 Plenary talk 3. Chair: Hein Sprong
Paradigms in tick evolution
Plenary speaker: Ben J. Mans

10:00-10:45 Plenary talk 4. Chair: Hein Sprong
Ixodes ricinus - a personal perspective
Plenary speaker: Jeremy S. Gray

10:45-11:15 Coffee break

11:15-13:00 Room Prostriata
Symposium
DIVERSITY OF SYMBIOTIC INTERACTIONS IN TICKS
Chairs: Yuval Gottlieb and Olivier Duron

11:15-11:45 Keynote talk
Nutritional endosymbiosis in ticks
Olivier Duron

11:45-12:00 *Rickettsia lusitaniae*, a widespread maternally inherited symbiont of *Ornithodoros* soft ticks
Marie Buysse

12:00-12:15 Exploring the physiological role of maternally-inherited endosymbionts in *Rhipicephalus microplus*, *Ixodes ricinus* and *Ixodes scapularis* ticks
Melina Garcia Guizzo

Room Prostriata
Symposium
TICK-BORNE ENCEPHALITIS
Chairs: Lidia Chițimia-Dobler and Gerhard Dobler

Keynote talk
The phylo-epidemiology of TBE virus in Central Europe
Gerhard Dobler

Comparative pathogenesis of tick-borne encephalitis virus and louping ill virus in experimentally infected sheep
Nadjah R. Adjadj

Tick behaviour in a TBE natural focus during higher temperatures
Lidia Chițimia-Dobler



TUESDAY, 30 August 2022

12:15-12:30	Isolation of bacterial endosymbionts (<i>Spiroplasma</i> spp.) from <i>Ixodes ricinus</i> ticks collected in Sweden Giulio Grandi	Utility of eco-epidemiological studies for the surveillance of tick-borne encephalitis virus in non-endemic areas - a UK example Maya Holding
12:30-12:45	Characterization of the bacterial flora in Swedish <i>Ixodes ricinus</i> and <i>I. persulcatus</i> using 16S amplicon sequencing Giulio Grandi	TBE pathogenesis study based on human blood-brain barrier model Martin Palus
12:45-13:00	Metabolic interactions between <i>Coxiella</i> like endosymbionts and the brown dog tick Yuval Gottlieb	Seroprevalence against tick-borne encephalitis (TBE) virus in wild rodents in two TBE natural foci in Bavaria, Germany Martin Pfeffer
13:00-14:30	Lunch	
14:30-16:00	Room Prostriata ECOLOGY AND EPIDEMIOLOGY #4 <i>Chair: Olaf Kahl</i>	Room Metastriata IMMUNITY AND VACCINES #1. MISCELLANEOUS <i>Chair: Martin Pfeffer</i>
14:30-15:00	Keynote talk Geographical distribution, host selection and seasonality of occurrence in bat-specialist ticks of Europe Attila D. Sándor	Keynote talk Anti-microbiota vaccines, concepts and applications for Lyme and malaria control Alejandro Cabezas-Cruz
15:00-15:15	Citizen science and the DAMA protocol: our tools to prepare for the emergence of ticks and tick-borne pathogens Gábor Földvári	Scenes from tick physiology: proteins of sialome talk about their biological processes Natalia Fernández Ruiz
15:15-15:30	Effect of urbanization on the distribution of <i>I. ricinus</i> and the prevalence of <i>Borrelia burgdorferi</i> in European green spaces, a meta-analysis Kathe Robert	Long-term in vitro propagation of <i>Babesia microti</i> Lee Fuller
15:30-15:45	Spatial sorting of <i>Ixodes ricinus</i> and its associated pathogens near greenspace infrastructure Mats Van Gestel	A preliminary account on the history of the Italian Acarology-Ixodology Daniele De Meneghi
15:45-16:00	Ticks and tick-borne pathogens in Umbria and Marche in a one health perspective; a five years monitoring with a description of clinical case of SENLAT Ilaria Pascucci	The Peer Community In (PCI) project, PCI Infections, and the Peer Community Journal Thierry De Meeus
16:00-16:30	Coffee break	
16:30-18:15	Room Prostriata ECOLOGY AND EPIDEMIOLOGY #5 <i>Chair: Gábor Földvári</i>	Room Metastriata Symposium TICK VECTOR COMPETENCE: CHALLENGES FOR THE FUTURE <i>Chairs: Olaf Kahl and Nathalie Boulanger</i>
16:30-16:45	Tick co-infestation of rodents in the Netherlands, an emerging area for TBEV Helen J. Esser	Keynote talk Vector competence of ticks for zoonotic agents: The basics and where are we now? Olaf Kahl
16:45-17:00	Cadavers of free-living species of tick hosts are a valuable source of material and data for tick-borne pathogen surveillance in urban habitats and beyond Václav Hönig	
17:00-17:15	What's hiding under the skin: subcutaneous ticks in wild canid hosts Georgiana Deak	Proteomics: A novel alternative to molecular biology in vector competence research? Nathalie Boulanger
17:15-17:30	Tick-borne pathogens detected in ticks removed from animal hosts in northeastern Italy Michela Bertola	Vectors of <i>Babesia</i> species Jeremy S. Gray
17:30-17:45	<i>Borrelia burgdorferi</i> s.l. diversity in ticks and small mammals from grasslands and forests Martin Pfeffer	Identification of candidate molecular determinants of the vector competence of <i>Ixodes ricinus</i> for members of the tick-borne encephalitis virus complex Sandrine A. Lacour
17:45-18:00	Effect of forest structural complexity on tick-borne diseases in small mammals and ticks Tosca Vanroy	Evaluation of two artificial infection methods of live ticks as tools for studying interactions between tick-borne viruses and their tick vectors Sara Moutailler
18:00-18:15		The conundrum of one <i>Ornithodoros</i> species-one <i>Borrelia</i> species - where should we look? Ryan O. Rego



TUESDAY, 30 August 2022

18:15-19:15	POSTER PRESENTATIONS #2
P21	Molecular survey of <i>Babesia</i> spp. in <i>Ixodes ricinus</i> ticks collected from humans in Romania Zsuzsa Kalmár
P22	Emergence of <i>Babesia bovis</i> in Kenya: Implications on national strategy for tick-borne diseases control Esther Kanduma
P23	Detection of tick-borne pathogens in ticks feeding on dogs and cats in south-western Slovakia Mária Kazimírová
P24	Tick infestation of free-living ungulates and their infection with Piroplasmida in south-western Slovakia Mária Kazimírová
P25	Molecular prevalence, characterization and associated risks factors of anaplasmosis and theileriosis in small ruminants of Northern Pakistan Adil Khan
P26	Detection of phleboviruses in ticks in Slovenia Natasa Knap
P27	Viral load and inflammatory immune response in the pathogenesis of tick-borne encephalitis Misa Korva
P28	Possible role of NS1 viral protein during tick-borne encephalitis Eliska Kotounova
P29	Development of the aptamer selection protocol against <i>Anaplasma phagocytophilum</i> Lisa Le Dortz
P30	Aptamers, an innovative tool for <i>Anaplasma phagocytophilum</i> Lisa Le Dortz
P31	Occurrence of tick-borne pathogens in Carpathian National Nature Park in Ukraine Viktoriya Levytska
P32	Prevalence of <i>Babesia</i> sp. and <i>Borrelia burgdorferi</i> sensu lato co-infections in Ixodes ticks from urban environment of the city of Poznań Justyna Liberska
P33	Using spatial statistics to assess the relative risk of ticks and tick-borne disease on livestock farms in Great Britain Katie Lihou
P34	Morphological analysis of ixodid tick species collected in five provinces, South Africa Tsireledzo G. Makwarela
P35	Synopsis of ticks of Algeria with new hosts and localities records and the first report of <i>Ixodes inopinatus</i> Nouredine Mechouk
P36	Hard ticks of Danube Delta Biosphere Reserve and the surroundings Mihai Marinov
P37	Contribution of geometric morphometry in the discrimination of tick species in Europe Sara Moutailler
P38	The bacterial microbiome of <i>Rhipicephalus sanguineus</i> ticks in the Mnisi community, South Africa Marinda C. Oosthuizen
P39	Identification and characterization of two non-canonical members of the CCp gene (CCp5 and FNPA) family in <i>Babesia bovis</i> Sezayi Ozubek
P40	High prevalence of <i>Babesia aktas</i> n. sp. in goat in Turkiye Sezayi Ozubek
20:00-22:00	Dinner (voucher needed)

WEDNESDAY, 31 August 2022

07:30-09:00	Breakfast (Group 2 and Group 3)
06:00-09:30	Boat trip (Group 1) (Breakfast on boat)
09:30-13:00	Boat trip (Group 2)
13:00-14:30	Lunch
14:30-18:00	Boat trip (Group 3)
20:00-23:00	Gala Dinner



THURSDAY, 1 September 2022

06:00-08:00	Birdwatching	
07:30-09:00	Breakfast	
09:00-09:15	Announcements	
09:15-10:00	Plenary talk 5. <i>Chair: José de la Fuente</i> The genus <i>Anaplasma</i> : comparative to functional genomics Plenary speaker: Kelly A. Brayton	
10:00-10:45	Plenary session. <i>Chair: Andrei D. Mihalca</i> TTP.11 Bids	
10:45-11:15	Coffee break	
11:15-13:00	Room Prostriata ECOLOGY AND EPIDEMIOLOGY #6 <i>Chair: Laura Tomassone</i>	Room Metastriata DIAGNOSIS AND TREATMENT <i>Chair: Monica Florin-Christensen</i>
11:15-11:30	Tick-borne pathogens in ticks from pasture in Norway Snorre Stuen	Keynote talk Essential oils can prevent tick attachment to humans and companion animals Richard Wall
11:30-11:45	Co-infection, reinfection and superinfection with <i>Anaplasma phagocytophilum</i> strains in a cattle herd based on ankA gene and multilocus sequence typing Friederike von Loewenich	
11:45-12:00	Identification of <i>Anaplasma</i> species in wild animal species in the Kruger National Park and surrounding game reserves, Mpumalanga, South Africa Sekgota M. Makgabo	First detection of Jingmen tick virus in Corsica: Development and validation of a real time assay to face a potential emergence Vincent Cicculi
12:00-12:15	Plasticity in the timing of detachment of an Eurasian-African songbird tick, <i>Ixodes frontalis</i> Dieter J.A. Heylen	Comparison of digital and nested PCR assays for rapid and accurate detection of <i>Borrelia burgdorferi</i> in tissues from experimentally infected mice Djamel Tahir
12:15-12:30	Circulation of <i>Rickettsia aeschlimannii</i> in ticks and cattle in Côte d'Ivoire Patrick K. Yao	A One Health approach to tackle tick-borne diseases - analysis of surveillance initiatives in selected EU countries: The Netherlands, Spain and Italy Aitor Garcia-Vozmediano
12:30-12:45	<i>Rickettsia rickettsii</i> is not in Asia Allen L. Richards	Humans infested with <i>Ixodes ricinus</i> are exposed to multiple tick-borne pathogens in Romania Zsuzsa Kalmar
12:45-13:00		Selective targeting of proteasome(s) - an innovative strategy to combat ticks and tick-borne diseases Daniel Sojka
13:00-14:30	Lunch	
14:30-15:45	Room Prostriata Symposium TICK-HOST-PATHOGEN INTERACTIONS: GETTING CLOSER TO DISEASE PREVENTION AND CONTROL <i>Chairs: José de la Fuente and Monica Florin-Christensen</i>	Room Metastriata GENETICS AND GENOMICS #2 <i>Chair: Anna Bajer</i>
14:30-15:00	Keynote talk Tick-host-pathogen interactions: a vaccinomics approach to control tick-borne diseases José de la Fuente	Keynote talk What have we learned from the first 600 mitochondrial genomes of ticks and other Acari? (recorded talk) Stephen C. Barker
15:00-15:15	<i>Rickettsia helvetica</i> : shedding light on the interplay between symbiosis and pathogenicity Tal Azagi	Proteomic insight into the midgut of the hard tick <i>Ixodes ricinus</i> during its development Tereza Kozelková
15:15-15:30	<i>Rickettsia helvetica</i> infection is associated with microbiome modulation in <i>Ixodes ricinus</i> collected from humans in Serbia Apolline Maitre	Genetic diversity of <i>Babesia divergens</i> in <i>Ixodes ricinus</i> nymphs collected from farm- and woodland sites in Ireland compared to <i>B. divergens</i> isolates from humans, cattle and deer Annetta Zintl
15:30-15:45	Identifying vertebrate host species contributing to Lyme disease emergence in an atypical hotspot Jonathan L. Yardley	Differential expression differences between paralysis and non-paralysis inducing strains of <i>Rhipicephalus evertsi evertsi</i> Ronel Pienaar
16:00-16:30	Coffee break	



THURSDAY, 1 September 2022

16:30-17:45	Room Prostriata Symposium TICK-HOST-PATHOGEN INTERACTIONS: GETTING CLOSER TO DISEASE PREVENTION AND CONTROL <i>Chairs: José de la Fuente and Monica Florin-Christensen</i>	Room Metastrata Symposium RETHINKING OUR APPROACH TO UNDERSTANDING TICK-BORNE HEMORRHAGIC FEVER VIRUSES: WHY WE NEED A TRANSDISCIPLINARY APPROACH <i>Chair: Dennis Bente</i>
16:30-17:00	Keynote talk Degrade to survive: the intricate world of piroplasmid peptidases Monica Florin-Christensen	Keynote talk Crimean-Congo hemorrhagic fever enzootic cycle and factors favouring virus transmission: special focus on France, an apparently free-disease area Laurence Vial
17:00-17:15	Tick-borne encephalitis virus – host in the skin interface Pavlina Bartikova	Crimean-Congo hemorrhagic fever: Where are we? Where do we need to go? Dennis Bente
17:15-17:30	<i>Borrelia burgdorferi</i> strains with high abundance in host tissues have higher transmission to <i>Ixodes scapularis</i> ticks Maarten J. Voordouw	Genetic background of adaptation of Crimean-Congo hemorrhagic fever virus to the different tick hosts Seyma Celina Suroy
17:30-17:45	N-glycosylation in piroplasmids: diversity within simplicity Monica Florin-Christensen	Better insight into the epidemiology of Crimean-Congo hemorrhagic fever virus in Corsica (France): a One Health approach Paloma Kiwan
18:00-19:00	POSTER PRESENTATIONS #3	
P41	Establishment of co-infection models in ticks and mice with two bacteria and one virus Stefania Porcelli	
P42	Interactions between tick-borne encephalitis virus and host cytoskeleton differs in human and tick cells Veronika Pranclova	
P43	Detection of <i>Hepatozoon</i> parasites in wild rodents of Central Europe Leonhard Schnittger	
P44	Can passive "Citizen Science" be used to monitor tick-human interaction? Sigurdur Skarphedinsson	
P45	Isolation and characterization of novel relapsing fever borreliae from world-wide distributing <i>Ornithodoros capensis</i> Ai Takano	
P46	Development of microsatellite markers for <i>Ornithodoros phacochoerus</i> (Acari: Argasidae) in the context of the international NifNaf project Florian Taraveau	
P47	Exploring the eukaryotic microbiome in ticks Yurie Taya	
P48	<i>Coxiella burnetii</i> in ticks in Çorum Province, Turkey Aysegul Taylan Ozkan	
P49	Tick-borne encephalitis infection (TBEV) in milk and milk products from domestic ruminants in Europe: a systematic review Laura Tomassone	
P50	Tick species characterization and <i>Anaplasma</i> spp. detection in different areas of a Sicilian Natural Park (South Italy) Alessandra Torina	
P51	<i>Coxiella burnetii</i> outbreaks in sheep farms and ticks in Sicily (Southern Italy) Alessandra Torina	
P52	Genetic diversity of <i>Theileria orientalis</i> from cattle in Kyrgyzstan Mehmet C. Ulucesme	
P53	Ticks and wild small mammals in zoological garden Brno, Czech Republic – reservoir of agents with zoonotic potential? Alena Žáková	
P54	Ticks in Brno (Czech Republic): 7 different pathogens proven! Alena Žáková	
P55	Does <i>Borrelia burgdorferi</i> sensu lato influence tick behavior? Alena Žáková	
20:00-22:00	Dinner (voucher needed)	



FRIDAY, 2 September 2022

07:30-09:00	Breakfast	
09:00-11:15	Room Prostriata ECOLOGY AND EPIDEMIOLOGY #7 <i>Chair: Sara Moutailler</i>	Room Metastrata IMMUNITY AND VACCINES #2 <i>Chair: Friederike Von Loewenich</i>
09:00-09:30	Keynote talk When do ticks invade? Janet Foley	Keynote talk Anti-tick vaccines as a practicable alternative to control ticks Alina Rodríguez Mallon
09:30-09:45	The raccoon, an invasive alien species in Europe: what contribution to the population dynamics of local ticks and their infectious agents? Laure Bournez	Comparative study of serological methods for tick-borne encephalitis virus-specific antibody detection in animals: impact of the screening approach on the estimated seroprevalence Gabrielle Trozzi
09:45-10:00	Another ecological trap for ticks: comparison of introduced raccoons and masked palm civets in Japan Kandai Doi (recorded talk)	Biochemical characterization and immunosuppressive activity of Ricistatin, a new salivary cystatin from <i>Ixodes ricinus</i> Mohamed A. Jmel
10:00-10:15	Survey of tick-borne zoonotic agents in wild ungulates and <i>Ixodes ricinus</i> ticks in Northern Italy Laura Grassi	The Tick Cell Biobank – new resources for tick and tick-borne microorganism research Lesley Bell-Sakyi (recorded talk)
10:15-10:30	Zoonotic tick-borne pathogens in ticks from vegetation and Alpine ibex (<i>Capra ibex</i>) in the Maritime Alps, Italy Laura Tomassone	Trials and tribulations of discovering tick vaccine antigens – the Australian story Alicja E. Tabor
10:30-10:45	Roe deer as useful animal sentinel to detect the exposure risk to tick-borne pathogens? Valentin Ollivier	Bovine host biomarkers for tick resistance – the discovery phase Alicja E. Tabor
10:45-11:00	Bird species influence more the tick burden of French common birds than environmental conditions during the breeding period Amalia Rataud	A strain of <i>Borrelia burgdorferi</i> sensu stricto may be resistant to anti-OspA vaccines Valérie Choumet
11:00-11:15	Individual variation in a tick-bird system: tick life history, fitness, evolutionary potential, and host quality Gerardo Fracasso	Anti-tick microbiota vaccine reduces <i>Borrelia afzelii</i> infection in the tick vector <i>Ixodes ricinus</i> Alejandra Wu Chuang
11:15-11:45	Coffee break	
11:45-12:30	Closing ceremony & Awards	
12:30-14:00	Lunch	





NOTE



A series of horizontal dotted lines for taking notes, overlaid on a faint background image of a tick on a plant stem.



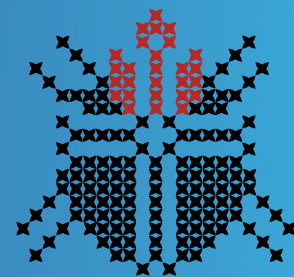
NOTE



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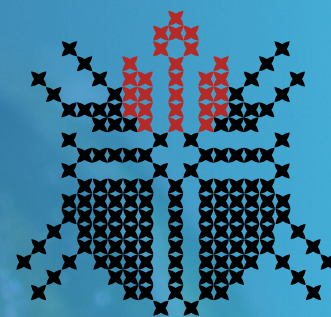
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10th Tick and Tick-Borne
Pathogen Conference



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10th Tick and Tick-Borne
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