

Poster walk programme

Tuesday April 16th

15:15 **Session 1: Ecology, epidemiology and diagnostics of emerging pathogens: e.g. *Anaplasma*, *Rickettsia*, *Neoehrlichia*, *Spiroplasma* & *Babesia***

Chair: **Karen Krogfelt**, Denmark

Anna Grankvist, Sweden

P1 Sandra Saschenbrecker - Performance of new nucleoprotein-based ELISAs for serodiagnosis of acute Crimean-Congo hemorrhagic fever virus infections (Germany)

P2 Eric Doppenberg - Rickettsiae serological diagnostics; challenging and improvable (Netherlands)

P3 Eilish Hart - *Neoehrlichia mikurensis*, *Anaplasma*, *Rickettsia*, *Spiroplasma* & *Babesia* (UK)

P4 Alaka Lamsal - Investigating the prevalence of Alongsan Virus (ALSV) in Norway (Norway)

P5 Dieneke Hoeve-Bakker - Evaluation of immunofluorescence assays for the detection of *Babesia divergens* and *B. microti* IgG antibodies (Netherlands)

P6 Lilian Bostlund Olsen - First Danish case of *B. miyamotoi* meningoencephalitis in a patient with marginal zone lymphoma (Denmark)

P7 Ondřej Daněk - Invasive raccoon (*Procyon lotor*) may play an important role in the eco epidemiology of vector borne pathogens in Europe (Czech republic)

P8 Agne Namina - *Babesia canis* occurrence does not affect the microbiome composition of *Dermacentor reticulatus* and *Ixodes ricinus* ticks collected from dogs (Latvia).

P9 Camilla Adler Sørensen - Cervids and raccoon dogs as wildlife sentinels for the geographical distribution of tick-borne encephalitis virus and *Francisella tularensis* in Denmark (Denmark)

P10 Markéta Nováková - Tick-borne pathogens in *Ixodes inopinatus*, *Ixodes ricinus* and their hybrids in Southern Europe and North Africa (The Czech Republic)

P11 Hanne Kloster - Seroprevalence of IgG-antibodies against *Borrelia burgdorferi sensu lato*, *Anaplasma phagocytophilum*, and tick-borne encephalitis (TBE) virus in horses in southern Norway (Norway)

Tuesday April 16th

15.15 Session 3A (Posters12-22): *Borrelia* with focus on clinical manifestations and diagnostics

Chair: Sigurdur Skarphedinsson, Denmark

Steffan Daniel Bos-Haugen, Norway

P12 Samuel Cronhjort - The EMBio-study – Exploring Co-infections and Clinical Outcome of Erythema Migrans (Sweden)

P13 Lucy Delaney - LYME-UK: a pilot observational cohort of early Lyme disease in Scotland (UK)

P14 Åslaug Rudjord Lorentzen - Recent treatment with rituximab may cause an atypical clinical picture and false negative serology in neuroborreliosis (Norway)

P15 Dorit Kraft Weisbjerg - Disseminated Marginal Zone Lymphoma in a Patient with Lyme Neuroborreliosis, a case report (Denmark)

P16 Malte M. Tetens – Redemption of analgesics among patients with neuroborreliosis; a nationwide, population-based matched registry-based cohort study (Denmark)

P17 Anita Nymark - Further recovery possibilities after Lyme neuroborreliosis (Denmark)

P18 Anna J Henningsson - National Reference Laboratories for *Borrelia burgdorferi* sensu lato and other tick-borne bacteria in Sweden (Sweden)

P19 Anna J Henningsson - Genome-wide DNA methylation profiling in acute Lyme neuroborreliosis and over a 1-year follow-up period (Sweden)

P20 Ilari Kuukkanen - Mass spectrometry based untargeted profiling of biomarkers of Lyme neuroborreliosis (Finland)

P21 Mark Jonker - Optimisation of a bead-based multiplex immunoassay to detect *Borrelia*-specific antibodies (Netherlands)

P22 Noemi Zsuzsa Kovacs - Hide and seek in LB-diagnostics – How did multi-locus sequence typing help us find *Borrelia bavariensis*? (Sweden)

Wednesday April 17th

14:40 Session 2 (Posters 23-32): Tick-borne encephalitis virus (TBE) - Ecology, epidemiology & molecular biology

Chair: Åshild Andreassen, Norway

Nanna Skaarup Andersen, Denmark

P23 Patrick Kelly - Demonstration of a digital risk tool to support individual risk assessments for Tick-Borne Encephalitis (TBE) and raise awareness for vaccination (Pfizer)

P24 - Kate Halsby - Need for a categorisation system of the clinical manifestations of tick-borne encephalitis virus infection: A Delphi panel (Pfizer)

P25 Sara Morgardt - Kinetics of TBEV IgM antibody levels in serum and cerebrospinal fluid in Tick-borne encephalitis (Sweden)

P26 Holly Yu - Does vaccination against tick-borne encephalitis offer good value for money for incidence rates below the WHO threshold for endemicity? A case study for Germany (Pfizer)

P27 Mette Skovdal - A population-based survey on knowledge and behavior related to Tick-Borne Encephalitis (TBE) and TBE vaccination in Denmark (Pfizer)

P28 Magnus Klinteskog - Detection of tick-borne encephalitis virus RNA during early course of infection in patients diagnosed with TBE in Sweden (Sweden)

P29 Rachael Wallis – “TBE or not TBE that is the question? (UK)

P30 Ruut Uusitalo - Microclimatic and ecological drivers of tick abundance and TBEV hotspots in the southern coast of Finland (Finland)

P31 Fredrikke Christie Knudtzen - In sickness and in health – implications of a media-induced TBE fright

P32 Charlotta Polacek Strandh - The current state of Tick-borne encephalitis virus (TBEV) in Denmark (Denmark)

Wednesday April 17th

14:40 **Session 3B (Posters 33-44): *Borrelia* with focus on epidemiology and pathogenesis**

Chair: **Ram Dessau** (Denmark)

Anna J. Henningson (Sweden)

P33 Patrick Kelly Meta-analysis of the distribution and prevalence of *Borrelia burgdorferi sensu lato* in questing *Ixodes nymphs* in Europe 2000-2021 (Pfizer)

P34 Fred Angulo - Incidence of symptomatic Lyme borreliosis in eight European countries after adjusting surveillance data for under-ascertainment of symptomatic cases, 2018-2022 (Pfizer)

P35 Alexandra Loew-Baselli - Burden of Lyme Disease (BOLD) study – Incidence of Lyme borreliosis in an Active Surveillance Study at Primary Care Practices in Endemic Regions of Six European Countries (Pfizer)

P36 Gordon Brestrich - Estimating the incidence of medically-attended Lyme borreliosis and its disseminated manifestations in Finland from 2015-2019 (Pfizer)

P37 Mattias Waldeck - Surveillance of Lyme neuroborreliosis in Skåne County, southern Sweden – what do we miss? (Sweden)

P38 Joakim Bloch - Impact of the COVID-19 Pandemic on Neuroborreliosis Incidence Among Danish Children: A Five-Year Retrospective Study (Denmark)

P39 Alex Davidson - Comparison of the number of Lyme neuroborreliosis cases in European Centre for Disease Prevention and Control (ECDC) and national public surveillance reports, 2018-2021 (Pfizer)

P40 Grace Plahe - Comparison of *Borrelia burgdorferi s.l.* abundance and genetic diversity between urban greenspaces and surrounding hinterland (UK)

P41 Anna Omazic - Occurrence of *Borrelia* spp. in ixodid ticks collected in northern Sweden from cats and dogs (Sweden)

P42 Nellie Carlströmer Berthén - The AxBioTick study – investigating the local gene expression and immune response in human skin bitten by *Borrelia*-infected and non-infected ticks (The Åland Islands)

P45 Anna Moniuszko-Malinowska - Usefulness of lipidomic studies in Lyme disease and Human Granulocytic Anaplasmosis (Polan)

P44 Robert E. Rollins - Unprecedented genetic diversity of Lyme borreliosis spirochetes suggests further importance of PFam54 paralogs for host adaptation (Germany)

14:40: Session 4 (Posters 45-56): Tick biology, ecology and interplay with pathogenic microorganisms

Chair: Lene Jung Kjær, Denmark

Nina Król, Germany

P45 Henna Mäkelä - Knowledge, attitudes, and practices towards tick-borne diseases in context of changing climate in Finland, 2020 (Finland)

P46 Sipari, Saana - Identifying breeding hosts of *Ixodes ricinus* ticks using stable isotope analysis of their larvae (Finland)

P47 Katerina Kybicova - Ticks and tick-borne pathogens in natural forest areas in Czech Republic (Czech Republic)

P48 Eva Richtrová - Ticks and tick-borne pathogens in urban areas in Czech Republic (Czech Republic)

P49 Thérèse Janzén - Ticks - public health risks in urban green spaces (Sweden)

P50 Patrik Dinnetz - Human behavior and exposure to ticks and tick-borne pathogens in recreational green spaces in the Baltic Sea region (Sweden)

P51 Mats Van Gestel - Translating recent insights in tick and pathogen ecology into a forest management framework (Belgium)

P52 Tosca Vanroy - Preference of *Ixodes ricinus* nymphs for stress hormones and *Borrelia burgdorferi* in mouse and bird blood: in vitro experiments (Belgium)

P53 Bram Catfolis - Integrating Structural Equation Modeling to Unravel the Relationship between Avian Body Condition and Tick Infestation in Great Tits *Parus major* (Belgium)

P54 Per Moestrup Jensen - Can frequencies of internet searches for ticks and tick-borne diseases serve as early warning for perturbations in the transmission of tick-borne infections? (Denmark)

P55 Ann-Sofie Steensgaard - Variation of *Ixodes ricinus* infection and microbiotic composition across gradients of anthropogenically impacted environments and macro-climatic zones (Denmark)

P56 Lucy Gilbert - Environmental risk factors for *Anaplasma* in Scotland (UK)