



**Scientific Meeting**  
**VII. LABUDA'S DAYS**  
**June 16 – 19, 2025**

**16 June 2025**

**16.00 – 18.00**

*REGISTRATION*

**18.00**

*WELCOME DRINK, DINNER*

**20.00 – 22.30**

*STARGAZING AT THE ASTRONOMICAL INSTITUTE*

**17 June 2025**

**8.00 – 9.00**

*REGISTRATION*

**9.00 – 9.15**

*CONFERENCE OPENING*

M. Kazimírová

MILAN LABUDA

**TICKS AND TICK-BORNE PATHOGENS (VECTORS, RESERVOIRS)**  
**CHAIRMAN: FRANZ RUBEL, ALGIMANTAS PAULAUSKAS**

**9.15 – 9.50**

***PLENARY LECTURE***

L. Chitimia-Dobler

**EVOLUTION OF TICKS AS REFLECTED BY AMBER ARTEFACTS**

**9.50 – 10.40**

***LECTURES***

O. Kahl, D. Kämmer, H. Dautel

FIELD INVESTIGATIONS ON THE DEVELOPMENTAL DIAPAUSE OF ENGORGED LARVAL AND NYMPHAL *IXODES RICINUS*: COMPARING NEW AND OLD FINDINGS

F. Rubel

EXPERIENCES FROM SEVEN YEARS OF TICK-BORNE ENCEPHALITIS INCIDENCE FORECASTS IN CENTRAL EUROPE

B. Baumannová

PIPETS SARPETTE M.

**10.40 – 11.10**

*COFFEE BREAK*

**11.10 – 12.00**

***LECTURES***

S. Purgatová\*, B. Mangová, M. Chvostáč, D. Selyemová, Y. M. Didyk, M. Kazimírová, A. Šujanová, P. Rajska, V. Rusňáková Tarageľová

SEASONAL ACTIVITY OF TWO EPIDEMIOLOGICALLY IMPORTANT TICKS IN SLOVAKIA, *IXODES RICINUS* AND *DERMACENTOR RETICULATUS* AND THEIR INFECTION WITH TICK-BORNE AGENTS

J. Radzijeuskaja, J. Snegiriovaitė, I. Lipatova, M. Razgūnaitė, S. Bernotas, A. Paulauskas

TICK-BORNE PATHOGENS IN DIVERSE URBAN HABITATS OF CENTRAL LITHUANIA: ASSESSING RISK OF TICK-BORNE DISEASES IN POPULAR RECREATIONAL AREAS

H. Pavelková, E. Bártová, J. Kejnovská, L. Plecháčková, M. Budíková

MONITORING OF *RICKETTSIA* SPP. IN TICKS IN TWO ZOOS IN THE CZECH REPUBLIC

**12.00 - 13.30**

*LUNCH*

**TICKS AND TICK-BORNE PATHOGENS (VECTORS, RESERVOIRS, FOCI)**

**CHAIRMAN: OLAF KAHL, LIDIA CHITIMIA-DOBLER**

**13.30 – 14.05**

***PLENARY LECTURE***

G. Dobler

PAVLOVSKY'S NATURAL FOCUS THEORY REVISITED

**14.05 – 15.30**

***LECTURES***

A. Paulauskas, D. Mardosaitė-Busaitienė, I. Lipatova, E. Kaminskienė, M. Razgūnaitė, M. Stanko, J. Radzijeuskaja

VECTORS AND RESERVOIRS OF *RICKETTSIA* SPP. IN BALTIC REGION

D. Mardosaitė-Busaitienė, A. Paulauskas, M. Sirodenko, A. Stankevičius, J. Radzijeuskaja  
TICK-BORNE ENCEPHALITIS VIRUS IN RODENTS AND TICKS FROM ENDEMIC  
REGIONS OF LITHUANIA

M. Stanko, D. Antolová, L. Mošanský, A. Csanády

CURRENT STATE OF KNOWLEDGE ON THE EPIDEMIOLOGICAL SIGNIFICANCE  
OF THE MOUND-BUILDING MOUSE (*MUS SPICILEGUS*, RODENTIA) IN SLOVAKIA  
– OVERVIEW OF RESULTS

A. Dvořáková\*, J. Černý, K. Kybicová

TICKBORNE OR NOT? EXPLORING THE ROLE OF TICKS IN NEGLECTED  
ZOOTIC BACTERIAL TRANSMISSION

B. Pavlíková, N. Pipová, E. McElroy, I. deBuron, V. Connors, V. Majláthová, I. Majláth  
VECTOR-BORNE BLOOD PATHOGENS IN REPTILES FROM SOUTH CAROLINA,  
USA

**15.30 – 16.00**

*COFFEE BREAK*

**NOVEL TECHNOLOGIES TOWARDS TICKS AND TICK-BORNE PATHOGENS  
MONITORING**

**CHAIRMAN: VERONIKA RUSŇÁKOVÁ TARAGEL'OVÁ, EVA RICHTROVÁ**

**16.00 – 16.40**

***LECTURES***

K. Kybicová, E. Richtrová, J. Navrátil, V. Hönig, J. Kamiš, M. Kulma, P. Švec, P. Kukuliač,  
Z. Vacek, J. Cukor, T. Václavík, J. Bartoška

„KLÍŠŤAPKA“: A MOBILE APPLICATION FOR PREDICTING TICK ACTIVITY,  
INFECTION RISK AND TICK REPORTING BY THE PUBLIC

E. Gatiaľ, Z. Balogh, D. Selyemová, M. Derdáková, S. Purgatová, P. Rajska, V. Rusňáková  
Taragel'ová

INFOTICK APP - MOBILE APPLICATION FOR TICKS MONITORING

**16.40 – 18.00**

***POSTERS P1 – P19***

**CHAIRMAN: KATEŘINA KYBICOVÁ, LENKA MINICHOVÁ**

**18.00**

*DINNER*

18 June 2025

**TICKS AND TICK-BORNE PATHOGENS (IMMUNOLOGY, DIAGNOSIS)**

CHAIRMAN: **GABRIELE MARGOS, PETR KOPÁČEK**

**9.00 – 10.10**

**LECTURES**

M. Zimmermann, G. Margos, Ch. Hartberger, R. Lienhard, A. J. Henningsson, M. Lager, M. Markowicz, A.-M. Schötta, A. Sing, B. Jaulhac, P.-Eric Lindgren, A. P. van Dam, J. W.R. Hovius, V. Fingerle

THE PCR TARGETING THE LARGE SUBUNIT OF PHAGE TERMINASE (TERL) IS NOT SUITABLE FOR *BORRELIA* DIAGNOSTICS IN EUROPE

P. Kopáček, T. Kozelková, V. Urbanová, R. Šíma, J. Perner, D. Sojka

GAPS AND CHALLENGES IN RESEARCH ON THE PHYSIOLOGY OF THE TICK MIDGUT

E. Buchová\*, I. Daubnerová, V. Klöcklerová, M. Medla, L. Roller, D. Žitňan

IDENTIFICATION AND CHARACTERIZATION OF NEUROPEPTIDES AND THEIR RECEPTORS IN THE TICK *IXODES RICINUS*

P. Bartíková, I. Štibrániová, J. Džubara, M. Novotová, M. Labudová

ARE STRUCTURAL CELLS OF THE HUMAN SKIN KEY PLAYERS IN THE FIRST PHASE OF TICK-BORNE ENCEPHALITIS VIRUS INFECTION?

**10.10 – 10.30**

*COFFEE BREAK*

**10.30 – 12.00**

*POSTERS P20 – P37*

CHAIRMAN: **IVETA ŠTIBRÁNIOVÁ, KATARÍNA LOZIAKOVÁ PEŇAZZIOVÁ**

**12.00 - 13.00**

*LUNCH*

**13.00**

**SOCIAL PROGRAMME AND FLAGGING AND FIELD APPLICATION OF INFOTICK APP  
RED MONASTERY**

(PARTICIPANTS SHOULD BRING THEIR OWN DRAGGING AND FLAGGING EQUIPMENT)

**19 June 2025**

**OTHER ZOONOSES (DIAGNOSIS, OCCURRENCE, EPIDEMIOLOGY, CONTROL)  
+ VARIA**

**CHAIRMAN: OLIVIER SPARAGANO, VOJTECH BOLDIŠ, MIKULÁŠ OROS**

**8.45 – 9.20**

**PLENARY LECTURE**

B. Song, N. Buchon, P. Butaye, O. Sparagano

**INTRINSIC POPULATIONS OF MICROBIOME AND THEIR ADAPTATION THROUGH  
MOSQUITO LIFE CYCLES**

**9.20 – 10.25**

**LECTURES**

M. Kazimírová, L. Voutilainen, M. Ličková, B. Mangová, M. Chvostáč, Yu. Didyk, S. Fumačová Havlíková, V. Rusňáková Taragel'ová, D. Selyemová, O. Zhovnerchuk, M. Stanko, H. Henttonen

**SEROSURVEYS OF SMALL RODENTS FOR ZOONOTIC VIRUSES IN SLOVAKIA  
WITH EMPHASIS ON TICK-BORNE ENCEPHALITIS VIRUS**

S. Braun, A. Kočíšová

**OPHIDASCARIASIS IN FROGS - A VETERINARY PERSPECTIVE**

L. Ihnacik\*, I. Papajová, J. Šmigová, P. Blišťan

**HUNT FOR PARASITES: A MULTI-CRITERIA APPROACH TO IDENTIFYING RISK  
FACTORS AND HIGH RISK AREAS FOR ENDOPARASITES TRANSMISSION**

V. Boldiš, F. Ondriska, M. Bastlová, J. Steinhübel, Ľ. Kováč

VARIABILITY OF GROWTH CHARACTERISTICS DURING CULTIVATION OF THE SEXUALLY TRANSMITTED PARASITE *TRICHOMONAS VAGINALIS*; OCCURRENCE OF TRICHOMONOSIS IN SLOVAKIA

**10.25 – 10.55**

*COFFEE BREAK*

**10.55 – 11.50**

*LECTURES*

P. Hockicková\*, A. Kaiglová, S. Kucharíková

NEMATODE *CAENORHABDITIS ELEGANS* AS A MODEL ORGANISM IN THE COMPARATIVE STUDY OF BISPHENOL A AND BISPHENOL S EFFECTS

D. Kaňuk\*, D. Antolová, D. Valentová, K. Strišková

*TOXOPLASMA GONDII* IN DOMESTIC RUMINANTS IN SLOVAKIA – SEROEPIDEMIOLOGICAL STUDY

D. Barčák, C. Kibet, M. Orosová, M. Lisnerová, R. Kuchta, M. Oros

THE OCCURRENCE OF AVIAN SCHISTOSOMES IN SLOVAKIA AND THE CZECH REPUBLIC DETECTED BY ENVIRONMENTAL DNA METABARCODING

**11.50 – 12.00**

*STUDENT PRESENTATION AWARD and CONCLUDING SESSION*

**12.00 – 13.30**

*LUNCH*

## POSTERS

1. B. Peťko, O. Kuchta, B. Hajdová, Z. Cellengová, V. Majláthová, I. Majláth

*DERMACENTOR RETICULATUS* IN SLOVAKIA IN SPACE AND TIME AT THE BEGINNING OF THE MILLENNIUM

2. L. Minichová, O. Benada

BENEATH THE TICK'S CUTICLE: A MICROSCOPIC EXPEDITION USING SEM

3. E. Kozlíková, E. Bártová, H. Pavelková, J. Kejnovská, A. Žákovská

DETECTION OF SIX TICK-BORNE PATHOGENS IN RODENTS CAUGHT NEAR TO MUNICIPAL WASTE LANDFILL

4. L. Fourcade\*, E. Špitalská

*RICKETTSIA* SPP. PREVALENCE IN *IXODES RICINUS* AND *DERMACENTOR RETICULATUS* TICKS FROM SLOVAKIA AND NEIGHBOURING COUNTRIES SINCE 2000: A META-ANALYSIS

5. D. Selyemová, S. Purgatová, K. Berecová, V. Rusňáková Taragel'ová

SYMPATRIC OCCURRENCE OF *IXODES RICINUS* AND *DERMACENTOR* SPP. TICKS IN SOUTHERN SLOVAKIA AND THE POTENTIAL RISK TO HUMAN AND ANIMAL HEALTH

6. V. Rusňáková Taragel'ová, S. Purgatová, B. Mangová, M. Chvostáč, D. Selyemová, Y. M. Didyk, A. Šujanová, O. Zhovnerchuk, M. Kazimírová, P. Rajská, E. Gatíal, Z. Balogh, Z. Špitalský, M. Derdáková

SEASONAL ACTIVITY OF *IXODES RICINUS* AND CITIZEN SCIENCE IN TICK RESEARCH IN SLOVAKIA (INFOTICK)

7. A. Žákovská, E. Bártová, N. Slezáčková, P. Schánilec, M. Budíková

SEROPREVALENCE AND RISK FACTORS FOR ZOONOTIC PATHOGENS *TOXOPLASMA GONDII*, *BORRELIA BURGDORFERI* SENSU LATO, *COXIELLA BURNETII*, AND *FRANCISELLA TULARENSIS* IN OWNED DOMESTIC CATS IN THE CZECH REPUBLIC



8. P. Petroušková, A. Pelegrinová, J. Lazár, M. Drážovská, M. Prokeš, Ľ. Korytár, M. Kostičák, J. Lipinský, A. Ondřejková

PRELIMINARY DETECTION OF CANINE PARVOVIRUS IN RED FOXES (*VULPES VULPES*) IN SLOVAKIA

9. E. Kaminskienė, J. Radzijeuskaja, M. Stanko, A. Paulauskas

*BARTONELLA* AND *RICKETTSIA* PATHOGENS IN LAELAPID MITES (ACARI: MESOSTIGMATA) OF SMALL RODENTS IN LITHUANIA

10. D. Mardosaitė-Busaitienė, J. Snegeriovaitė, E. Kaminskienė, A. Paulauskas, L. Balčiauskas, J. Radzijeuskaja

DIVERSITY OF *BORRELIA* SPECIES IN RODENTS AND THEIR IXODID TICKS IN LITHUANIA

11. E. Richtrová, K. Kybicová, J. Navrátil, V. Hönig, J. Kamiš, M. Kulma, Z. Vacek

TICK ABUNDANCE AND TICK-BORNE PATHOGENS PREVALENCE IN DIFFERENT ECOSYSTEMS IN THE CZECH REPUBLIC

12. A. Schreiberová, Z. Cellengová, B. Hajdová, N. Spešová

EVIDENCE OF ZOONOTIC *BABESIA* SPP. IN TICKS COLLECTED FROM COMPANION ANIMALS IN EASTERN SLOVAKIA

13. Z. Cellengová\*, B. Hajdová, A. Schreiberová, A. Kočišová, B. Peťko

ZOONOTIC *BABESIA* SPECIES AS A NEGLECTED TICK-BORNE PATHOGEN IN *IXODES RICINUS* FROM AN URBAN AREA OF NORTHERN SLOVAKIA: FIRST MOLECULAR DETECTION IN THE CITY OF ŽILINA

14. B. Mangová, D. Selyemová, M. Chvostáč, M. Derdáková, Y. Didyk, M. Kazimírová, V. Rusňáková Taragel'ová

BIOFARM AS A POTENTIAL MONITORING AREA FOR THE OCCURRENCE OF TICK-BORNE PATHOGENS IN THE ENVIRONMENT

15. Š. Skičková\*, M. Bañas, L. Abuin-Denis

GEOGRAPHIC VARIATION IN THE MICROBIOME OF *VARROA DESTRUCTOR* IN THE NEIGHBOURING COUNTRIES SLOVAKIA AND CZECHIA

16. K. M. Švirlochová\*, B. Víchová, M. Stanko, V. Blažeková, L. Vargová, M. Tkoč, J. Oboňa, D. Zubriková

TABANIDAE: A NEGLECTED RESEARCH SUBJECT IN SLOVAKIA

17. D. Kaňuk\*, D. Antolová, P. Komorová, Z. Hurníková, M. Miterpáková, M. Stanko

SMALL MAMMALS AS RESERVOIR HOSTS OF *TOXOCARA* SPP. – PRELIMINARY RESULTS

18. S. Braun, A. Kočišová

*DIPLODISCUS MEHRAI*, AN INTESTINAL TREMATOD IN PET FROGS

19. E. Špitalská, P. Bartíková, L. Minichová, Ľ. Škultéty

EVALUATING THE ROLE OF *DERMACENTOR* TICKS IN THE CIRCULATION OF *RICKETTSIA HELVETICA*

20. A. Rashydov\*, V. Sarabeev, O. Lisitsyna, O. Grebens Desdevises, M. Oros

MOLECULAR CHARACTERISATION OF *CEPHALOTREMA ELASTICUM* (PLATYHELMINTHES: DIGENEA) WITH NOTES ON ITS DEFINITIVE HOST

21. M. Liptáková\*, K. Račka, M. Drážovská, V. Petrilla, J. Mojžišová Vaščinec, G. Štrkolcová, A. Schreiberová, S. Mbindyo, T. Abuom, A. Mainga, P. Otiende, G. Gitau, A. Kinyua, V. Masawe, I. Akhulunya, J. Mande

OCCURRENCE OF GASTROINTESTINAL PARASITES IN RUMINANTS: A PRELIMINARY STUDY FROM KAJIADO COUNTY, KENYA

22. Y. Syrota, M. Miterpáková, Z. Hurníková, P. Komorová, M. Stanko

FIRST RECORD OF THE CRYPTIC TAPEWORM SPECIES *HYDATIGERA KAMIYAI* (CESTODA: TAENIIDAE) IN SLOVAKIA

23. K. Račka, E. Bártová, K. Sedlák

GENETIC STRUCTURE OF *TOXOPLASMA GONDII* FROM PALLAS'S CATS (*OTOCOLOBUS MANUL*) IN 5 ZOO'S IN THE CZECH REPUBLIC

24. K. Račka, M. Liptáková, V. Petrilla, M. Dražovská, J. Mojžišová Vaščinec, G. Štrkolcová, S. Mbindyo, T. Abuom, A. Mainga, P. Otiende, G. Gitau, A. Kinyua, V. Masawe, I. Akhulunya, J. Mande

SEROLOGICAL SURVEY ON *TOXOPLASMA GONDII* IN RUMINANTS FROM KAJIADO COUNTY, KENYA.

25. A. Schreiberová, M. Liptáková, G. Štrkolcová

PRELIMINARY STUDY ON *GIARDIA DUODENALIS* AND *CRYPTOSPORIDIUM* SPP. AS ZOONOTIC PATHOGENS IN DOMESTIC DOGS

26. M. Komáromyová, D. Barčák, A. Alexovič Matiašová, T. Kuzmina, D. Petrič, K. Čobanová, Z. Váradyová, M. Várady

CHICORY PASTURE AND ZINC NANOPARTICLES AND THEIR EFFECT ON ABOMASAL PARASITE *HAEMONCHUS CONTORTUS* IN LAMBS

27. M. Oros, M. Soldánová, D. Barčák, P. Kundid, C. Kibet, R. Kuchta, M. Orosová, T. Scholz

OCCURRENCE OF THE TREMATODE *METAGONIMUS ROMANICUS* IN THE DANUBE RIVER

28. D. Barčák, M. Orosová, M. Oros

NEW SPOT OF CERCARIAL DERMATITIS IN SLOVAKIA CONFIRMED BY ENVIRONMENTAL DNA METABARCODING

29. P. Schusterová, K. Loziaková Peňazziová, Z. Pačanská, S. Pivka, T. Csank<sup>1</sup>

DIFFERENTIAL NEUROTROPISM AND INNATE IMMUNE ACTIVATION BY KEMEROVO AND TRIBEČ TICK-BORNE ORBIVIRUSES IN HUMAN ASTROCYTES

30. J. Džubara\*, I. Štibrániová, P. Bartíková, M. Kazimírová, K. Lopušná  
IMMUNE RESPONSE OF HUMAN KERATINOCYTES TREATED WITH *IXODES RICINUS* TICK SALIVARY GLAND EXTRACT INFECTED WITH TICK-BORNE ENCEPHALITIS VIRUS
31. J. Džubara\*, F.S. Molnárová, I. Štibrániová, M. Labudová, M. Kazimírová, P. Bartíková  
EVALUATION OF TWO EXPERIMENTAL METHODS OF INFECTION OF ADULT TICKS WITH TICK-BORNE ENCEPHALITIS VIRUS
32. E. Sošková\*, A. Žákovská  
CORRELATION BETWEEN ELEVATED PRO-INFLAMMATORY TNF- $\alpha$  LEVELS AND SPECIFIC ANTIBODIES IN PATIENTS WITH LYME DISEASE
33. S. Kaliukanov\*, F. Csicsay, K. Palkovičová, Ľ. Škultéty, M. Quevedo-Diaz  
DEVELOPMENT OF A NOVEL SANDWICH ELISA TEST FOR THE DETECTION OF ANTIBODIES AGAINST *RICKETTSIA*
34. F. Csicsay, M. Quevedo Diaz, S. Kaliukanov, M. Janík, Ľ. Škultéty  
COMPARATIVE ANALYSIS OF LIPID A STRUCTURES IN PATHOGENIC *RICKETTSIA*
35. Y. Y. Peresh\*, Z. Špitalský, M. Shaalan, Ľ. Škultéty, E. Špitalská  
NANOPARTICLE-BASED STRATEGIES FOR COMBATING RICKETTSIAL INFECTIONS: AN ALTERNATIVE TO ANTIBIOTICS
36. K. Palkovičová, Z. Špitalský, Ľ. Škultéty, E. Špitalská  
PHOTODYNAMIC INACTIVATION OF *COXIELLA BURNETII*
37. Z. Špitalský, M. Shaalan, E. Špitalská, M. Kováčová  
ANTIBACTERIAL HYDROGELS FOR PLASTERS

## **PRESENTATION/POSTERS**

### Language

The official language of the conference is English/Slovak/Czech.

### Speaker Information

PowerPoint presentations with slides in the 16:9 aspect ratio in .pptx format must be prepared in English. Oral presentations are scheduled for 15 minutes. Speakers are requested to upload their PowerPoint presentations (via USB stick) in the lecture room during the coffee break before the start of their respective session.

### Poster Presentations

Posters must be prepared in English. Posters numbered 1–19 are to be mounted on the designated panels on Tuesday, 17 June 2025, between 08:00 and 18:00. Posters numbered 20–37 should be mounted on Wednesday, 18 June 2025, within the same time frame (08:00–18:00)

### Poster Discussions

During the poster session, presenting authors (students) will be invited by the session chair to deliver a brief oral presentation of their study and the results displayed on the poster, within a time frame of 5 to 10 minutes. All other authors are expected to be present for informal discussion. The order of poster presentations is provided in the official programme.

\* STUDENT

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