



8:30-9:30 *Registration, Poster setting, Coffee break, Nano FCM & Explorer demo*

9:30-9:40 **Opening**

Jiri Zahradnik, *First Faculty of Medicine, Charles University in Prague*

CzeSEV President - Vendula Pospichalova, *Faculty of Science, Masaryk University*

9:40-10:20 **Keynote lecture: The Social Media of the Malaria Parasite**

Neta Regev-Rudzki, *Department of Biomolecular Sciences, Weizmann Institute of Science, Israel*

Chair: Andrea Galisova, *Institute for Clinical and Experimental Medicine*

10:20-10:30 **Short break**

10:30-12:05 **Session 1: Profiling of EVs**

Chairs: Gabriela Ambrozova, *Institute of Biophysics of the CAS*; Sarka Pokorna, *J. Heyrovsky Institute of Physical Chemistry of the CAS*

10:30-10:50 Extracellular Vesicles: What We Know, What We Don't, and Why It Matters
Vendula Pospichalova, Faculty of Science, Masaryk University

10:50-11:10 Bacterial Modulation of Macrophage-Derived EVs Enhances Pro-Inflammatory Signaling
Gabriela Ambrozova, Institute of Biophysics of the CAS

11:10-11:30 Extracellular Vesicle Lipid Organization Revealed by Novel and Established Biophysical Tools
Sarka Pokorna, J. Heyrovsky Institute of Physical Chemistry of the CAS

11:30-11:50 Profiling Extracellular and Surface Sphingolipids Can Provide Valuable Insights into the Metabolic and Clinical Status of Solid Cancers
Jirina Prochazkova, Faculty of Science, Masaryk University

11:50-12:05 Beckman Coulter Life Sciences, Gold partner

12:05-13:40 **Lunchbreak: Lunch with Poster session 1 (odd numbers) and networking, NanoFCM & Explorer demo**

13:40-15:10 **Session 2: EVs and technologies**

Chairs: Jan Pribyl, *CEITEC, Masaryk University*; Zuzana Vince Kazmerova, *Biomedical Research Center SAS*

13:40-14:00 NANOSPACER: Nanofluidic Chip Platform for Open-Source Sizing of Biomacromolecules, Nanoparticles, and Extracellular Vesicles in Solution (online)
Oliver Vanderpoorten, UiT, The Arctic University of Norway

14:00-14:15 Particle Metrix, Gold partner

14:15-14:35 Multimodal Nanoscale Characterization of Biological Samples Using Atomic Force Microscopy and Complementary Techniques
Jan Pribyl, CEITEC, Masaryk University

14:35-14:50 Accela, Gold partner

14:50-15:10 Specific MRI Tracking of Targeted Extracellular Vesicles
Andrea Galisova, Institute for Clinical and Experimental Medicine

15:10-16:10 **Coffee break with Poster session 2 (even numbers) and networking, NanoFCM & Explorer demo**



16:10-16:55 **General Assembly of CzeSEV** (Organizing Committee) & **SNEV networking** (Vojtech Sprincl, Institute of experimental medicine of the CAS) (in Czech)

16:55-17:10 *Short break*

17:10-18:00 **Session 3: EVs in cancer**

Chairs: Jan Balvan, *Faculty of Medicine, Masaryk University*; Helena Kupcova Skalnikova, *First Faculty of Medicine, Charles University*

17:10-17:30 Exosomal Galectins Signature in Blood of Glioblastoma Patients: Potential Non-invasive Markers for Diagnosis and Prognosis
Oksana Batkivska, CENAB, Jan Evangelista Purkyně University

17:30-17:40 ANAMET, Silver partner

17:40-18:00 Influence of Cancer-Associated Fibroblast-Derived Phosphatidylserine-Positive Extracellular Vesicles on Tumor Progression in Head and Neck Squamous Cell Carcinoma
Jan Balvan, Faculty of Medicine, Masaryk University

18:00-18:15 **Closing ceremony, poster award**
Organizing Committee

Gold Partners



Silver Partners



Bronze Partners

