Cardiovascular and Cardiorespiratory Interactions – From Physiological Mechanisms to Clinical Applications
Jessenius Faculty of Medicine, Comenius University (Martin, Slovakia), November 2–4, 2026
Project Visegrad Grant No. 22620137

Cardiovascular Network: Physiological Background, Data Sets and Future Perspectives

Michal Javorka[1],
joint work with Barbora Czippelová[2], Jana Čerňanová Krohová[2],
Zuzana Turianiková[2]

[1] *Department of Physiology, Jessenius Faculty of Medicine in Martin, Comenius University of Bratislava, Slovakia*
[2] *Biomedical Center Martin, Jessenius Faculty of Medicine in Martin, Comenius University of Bratislava, Slovakia*

This presentation outlines the complex interconnections in cardiovascular control network and possibilities to record its nodes behavior by non-invasive approach. Limitations of data interpretation and necessity to use causal bi-, tri- and multivariate data analysis approaches based on physiological background are stressed. Information on existing datasets recorded in our laboratory will be also provided.