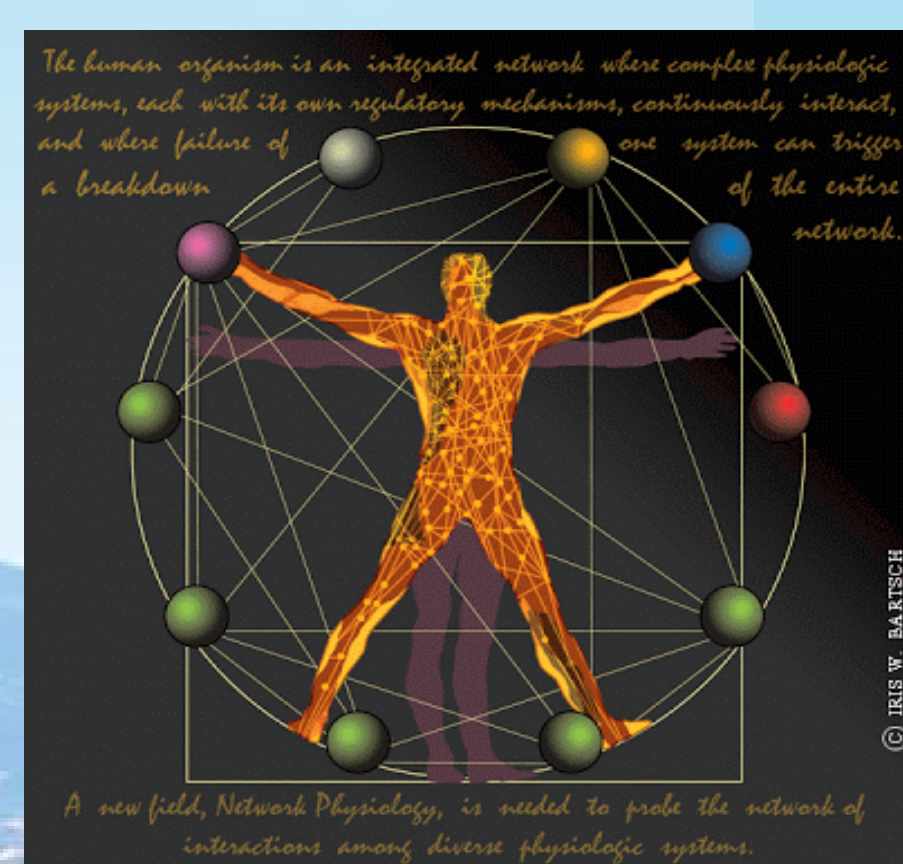




# Fourth International Summer Institute on Network Physiology (ISINP)

Lake Como School of Advanced Studies, 27 July–1 August 2025



website: [isinp.github.io/isinp-4](https://isinp.github.io/isinp-4)  
[isinp.lakecomoschool.org](https://isinp.lakecomoschool.org)

The focus of this summer institute is to integrate empirical and theoretical knowledge across disciplines with the aim to understand in different contexts ~ from extensive data analyses and modeling approaches to clinical practice ~ how diverse physiological systems and subsystems dynamically interact to produce health and disease. This will be an interactive event with lectures ranging from physics, applied mathematics and biomedical engineering to neuroscience, physiology and clinical medicine, covering a range of physiologic systems from the cellular to the organ level, and will discuss the challenges, current frontiers and future developments in the emerging field of *Network Physiology*. The institute will address a diverse audience of graduate students, postdocs, research scientists and faculty across a broad range of disciplines and fields, and will provide opportunities for the researchers to exchange new ideas and viewpoints, forge new collaborations and train the next generation of young scientists.

## Invited Speakers

**Krasimira Tsaneva-Atanasova**

University of Exeter, UK

**Natàlia Balagué**

University of Barcelona, Spain

**Ronny P. Bartsch**

Bar-Ilan University, Israel

**Paul Bogdan**

Viterbi School of Engineering,  
University of Southern California, USA

**Luca Faes**

University of Palermo, Italy

**Flavio H. Fenton**

Georgia Institute of Technology, USA

**Susanna Gordleeva**

Lobachevsky State University  
of Nizhny Novgorod, Russia

**Shlomo Havlin**

Bar-Ilan University, Israel

**James W. Holsapple**

Boston University School of Medicine  
Boston Medical Center, USA

**Plamen Ch. Ivanov**

Boston University, USA

**Viktor Jirsa**

CNRS, France  
Aix-Marseille University, France

**Yaron Ilan**

Hebrew University, Israel

**Joseph Loscalzo**

Brigham and Woman's Hospital  
Harvard Medical School, USA

**Alan Macy**

BIOPAC Systems, Inc, USA

**Rosario Mantegna**

Palermo University, Italy

**J. Randall Moorman**

University of Virginia, USA

**Ulrich Parlitz**

Max Planck Institute, Germany

**Sergi Garcia-Retortillo**

Wake Forest University, USA

**Rossella Rizzo**

University of Palermo, Italy

**Michael G. Rosenblum**

University of Potsdam, Germany

**Eckehard Schöll**

Berlin Institute of Technology,  
Bernstein Center for Computational  
Neuroscience, Germany

**Peter A. Tass**

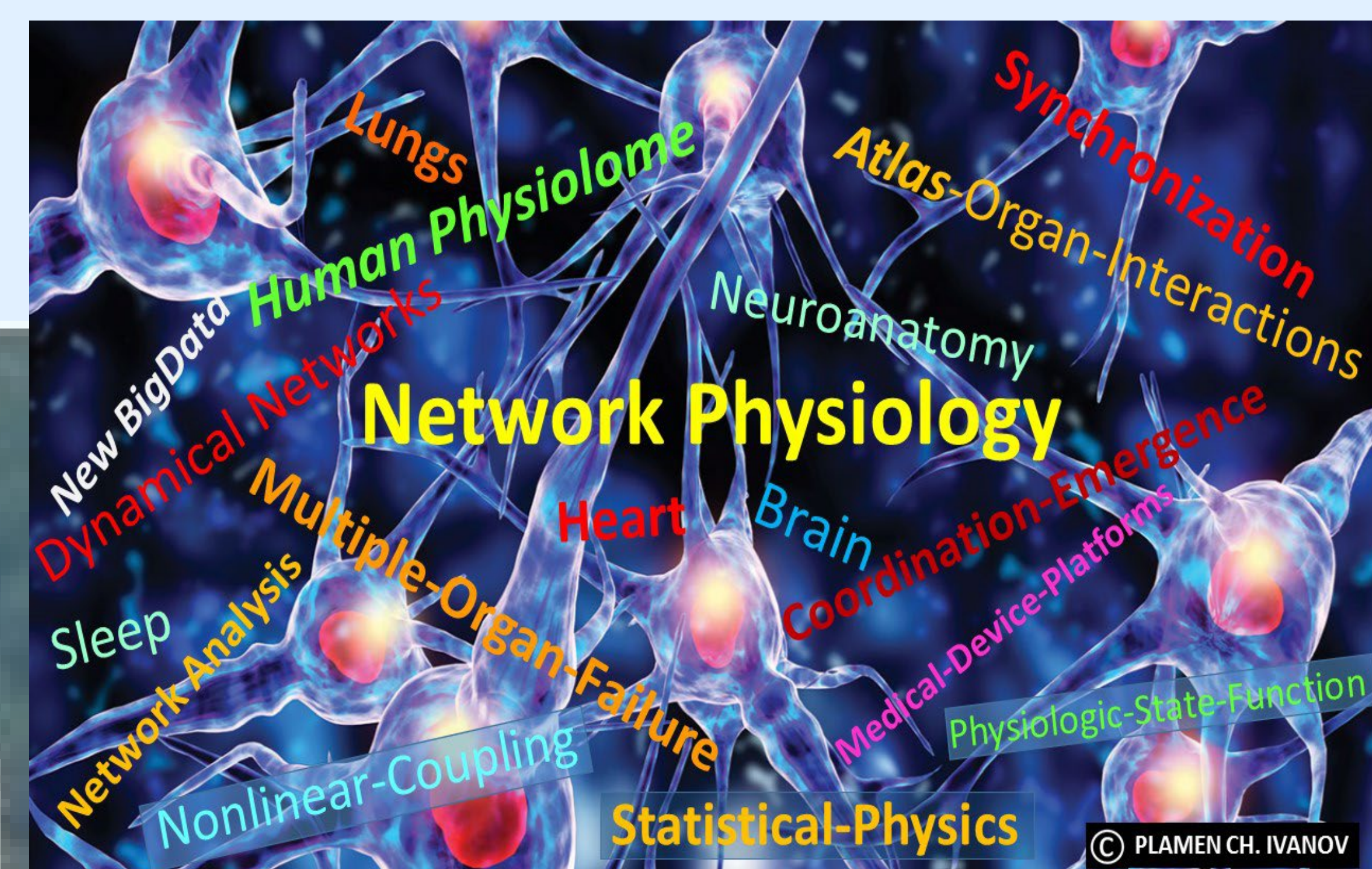
Stanford University School of Medicine, USA

**Robert J. Thomas**

Beth Israel Deaconess Medical Center,  
Harvard Medical School, USA

**Alexey Zaikin**

University of London, UK



## Institute Organizer and Director



**Plamen Ch. Ivanov**

Director, Keck Laboratory  
for Network Physiology  
Boston University, USA

## Contacts & Location



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**Fondazione  
Alessandro Volta**



Frontiers in **Network Physiology**