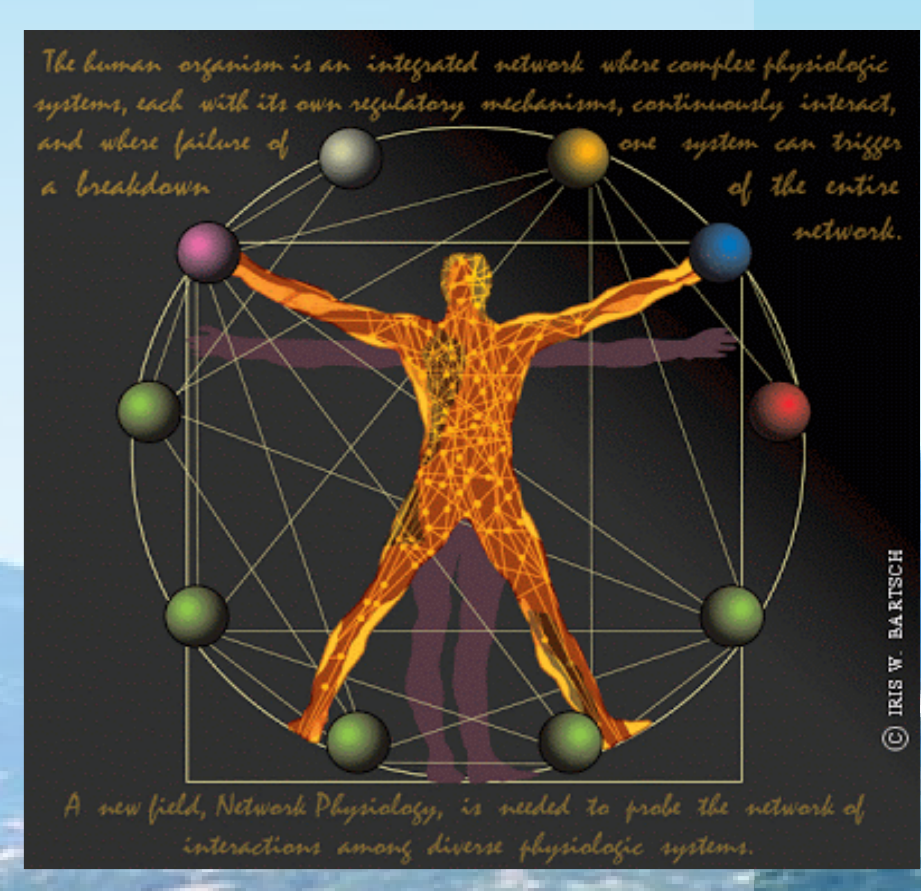




Fourth International Summer Institute on Network Physiology (ISINP)

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



website: isinp.github.io/isinp-4
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

Natalia 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

David S. Goldstein
National Institute of Neurological
Disorders and Stroke, USA

Susanna Gordileva
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

Yaron Ilan
Hebrew University, Israel
Hadassah Medical Center, Israel

Plamen Ch. Ivanov
Boston University, USA

Viktor Jirsa
CNRS, France
Aix-Marseille University, France

Boris P. Kovatchev
University of Virginia, USA

Jürgen Kurths
Humboldt University, Germany

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

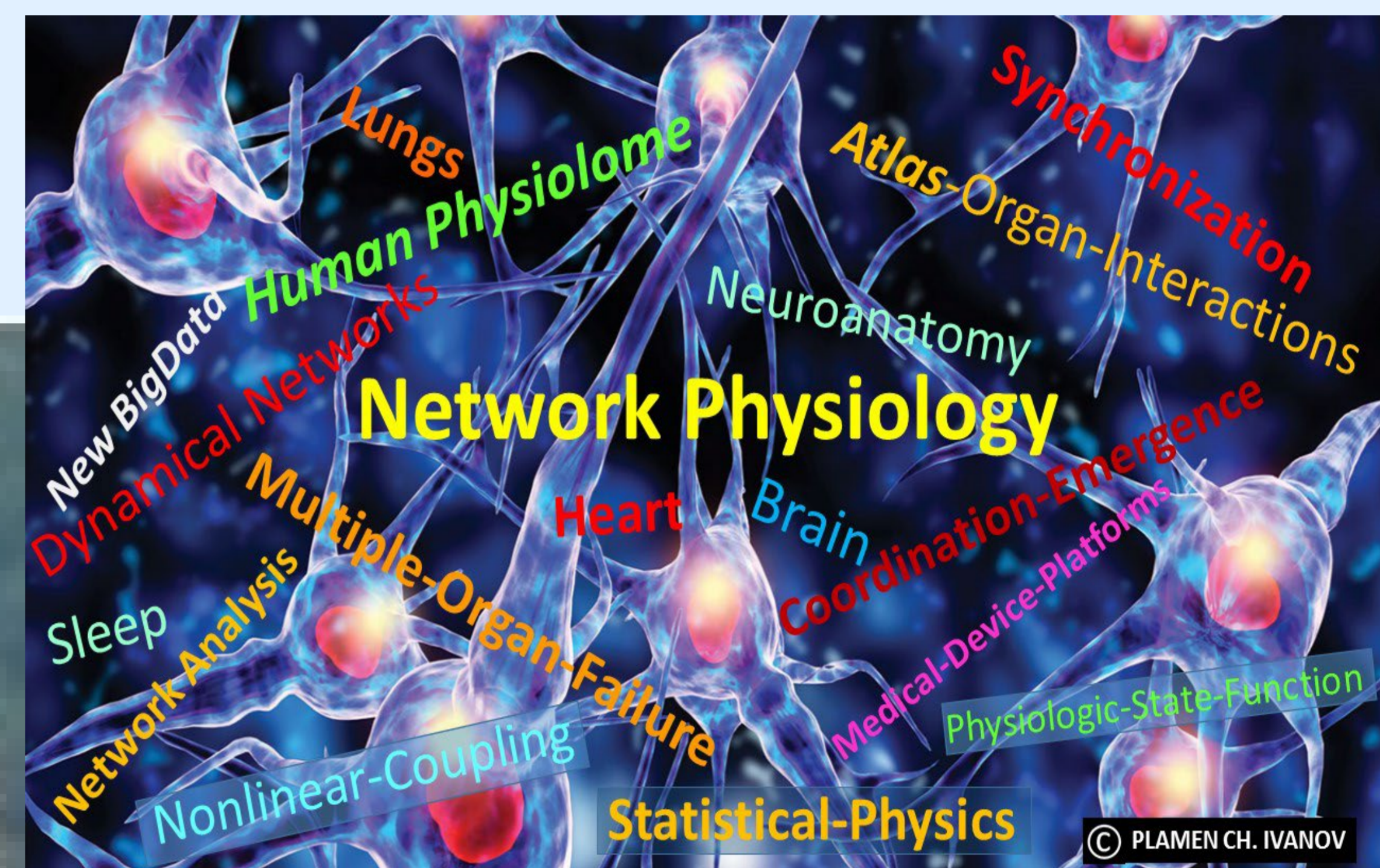
Eckehard Schöll
Berlin Institute of Technology,
Bernstein Center for Computational
Neuroscience, Germany

Peter A. Tass
Stanford University School of Medicine, USA

Robert J. Thomas
Beth Israel Deaconess Medical Center,
Harvard Medical School, USA

Bettina Weigelin
University of Tübingen, Germany

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**



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Frontiers in Network Physiology