



Dear colleagues,

The International Scientific Board of the Chemistry towards Biology conference series and the Local Organizing Committee are pleased to announce

Chemistry Towards Biology - Instruct Conference

will be held on **September 11 – 14, 2022** in Bratislava

<https://www.instruct.sav.sk/index.html>

The conference will mainly cover topics - **structure of biomolecules, intermolecular interactions, experimental and theoretical methods in biomolecular research.**

The symposium will cover invited lectures, oral presentations selected from submitted abstracts, and poster sessions. Special attention is devoted to the active participation of young people at the symposium.

The early bird registration and abstract submission is May 31st, normal is June 30th. PhD students have special reduced fee.

The meeting venue is located in the central part of the city (Hotel Tatra), the ancient heart of the old town is a few steps from the venue.

We welcome you and hope that you will have a great time in Bratislava at Chemistry towards Biology 10 - Instruct meeting!

Miloš Hricovíni, Local organizing committee

Plenary speakers

Prof. Lucia Banci

University of Florence, Italy
Cellular Structural Biology: from protein structures to functional processes in a cellular context.

Prof. Kristina Djinovic Carugo

University of Vienna, Austria
Order from Disorder: Towards molecular architecture of the muscle Z-disk assembly.

Prof. Wiktor Kozminski

University of Warsaw, Poland
High dimensionality and high resolution NMR experiments.

Dr. Magdaléna Májeková

Slovak Academy of Sciences, Bratislava, Slovakia
Structural changes of SERCA protein after ligand binding.

Prof. Roberta Pierattelli

University of Florence, Italy
Un-structural biology by NMR spectroscopy.

Dr. Pavlína Řezáčová

Czech Academy of Sciences, Prague, Czech Republic
Structure-assisted design of enzyme inhibitors.

Prof. Harald Schwalbe

Instruct-ERIC, Oxford, UK

Prof. Grazyna Stochel

Jagiellonian University, Kraków, Poland
Light - controlled processes and materials from biomedical application perspectives. Mechanistic insight and development strategies.

Prof. Ray Owens

University of Oxford, UK
Structural and functional analysis of nanobodies to the Spike protein of SARS-CoV-2.

Invited speakers

Prof. Andrzej Bak

Silesian University in Katowice, Poland
Similarity-related assessment of the property profile in drug design.

Dr. Vladena Bauerová

Slovak Academy of Sciences, Bratislava, Slovakia
Structural insights into the N-terminal domain of human Ryanodine receptor 2 and its association with cardiac arrhythmias.

Dr. Eva Kutejová

Slovak Academy of Sciences, Bratislava, Slovakia
Lon protease - essential component of mitochondrial homeostasis.

Prof. Andras Perczel

Eötvös Loránd University, Budapest, Hungary
Proglucagon derived polymorphic amyloid 3D-structures and their formation kinetics.

Dr. Vladimír Pevala

Slovak Academy of Sciences, Bratislava, Slovakia
A new Slovak center for research and teaching activities in structural biology – Interreg V-A Slovakia – Austria project StruBioMol.

Prof. Janez Plavec

National Institute of Chemistry, Ljubljana, Slovenia
NMR structure and dynamic features of quadruplex DNA topologies.

Dr. Olga Malkina

Slovak Academy of Sciences, Bratislava, Slovakia
Beyond the Dirac Vector model: Why one-bond reduced spin-spin coupling can be negative.

Prof. Aneta Slodek

Silesian University in Katowice, Poland
Novel donor-acceptor systems (D-A) based on heteroaromatic and heterocyclic motifs: quinoline and phenothiazine as modern materials for application in optoelectronics and bioimaging.

Prof. Radek Marek

CEITEC, Brno, Czech Republic
Interpretation of NMR shifts in heavy-element

Prof. Tamás Martinek

University of Szeged, Hungary
Compounds. Degradation-free intracellular delivery of nanomolar protein cargoes with ganglioside specific recognition tags.

Prof. Pavel Štarha

Palacky University Olomouc, Czech Republic
Transition metal complexes for cancer therapy.

Prof. Ján Moncol

Slovak Technical University, Bratislava, Slovakia
Structure types of transition metal complexes as potential anticancer drugs.

Dr. Lubica Urbániková

Slovak Academy of Sciences, Bratislava, Slovakia
Bioinformatics analysis of family GH13 trehalose synthases with focus on a maltokinase-like domain.

Prof. Robert Musiol

Silesian University in Katowice, Poland
Stop having complex with terpyridines.

Dr. Zuzana Pakanová

Slovak Academy of Sciences, Bratislava, Slovakia
Mass spectrometry in glycoconjugate analysis.