



ICCST-XVI
hallesaale

**16th International Conference
on the Chemistry of
Selenium & Tellurium**

August 26 – 29, 2025 in Halle (Saale)

Program

[Tuesday](#)

[Wednesday](#)

Excursion

[Friday](#)

Program

Tuesday, August 26

9:30 Registration open (please bring your presentation stick!)

11:35 Light Lunch

Session 1 *Chair: Ludger Wessjohann*

12:15 Opening Ceremony

12:30 Plenary Lecture: **Robert J. Hondal** (*Univ. of Vermont, VT, USA*)
Oxidized ergothioneine as a substrate for thioredoxin reductase

13:15 Keynote Lecture: **Jacek Ścianowski** (*N. Copernicus Univ., Poland*)
Chiral selenides, diselenides and benzi-selenazones - syntheses, transformations and bioactivity

13:45 Short Talk+: **Thomas Wirth** (*Cardiff Univ., United Kingdom*)
Control in Electroorganoselenium Chemistry

14:00 Short Talks: **Guilherme F. Botelho** (*U Federal do Rio de Janeiro, Brazil*)
Tribromoisocyanuric acid-mediated telescoped synthesis of 2-amino-4-arylselenazoles and its activity against *Meloidogyne incognita*
Erki Enkvist (*Univ. of Tartu, Estonia*)
Microsecond-Lifetime Photoluminescent Probes Based on Selenium Containing Protein Kinase Inhibitors
Javier Mateos (*Univ. of Vienna, Austria*)
Dicationic Diselenides – Bench-Stable Sources of Se(III) Radicals
Koh Sugamata (*Univ. of Tsukuba & Rikkyō Univ., Japan*)
Selenium- and tellurium-centered 2-Heteroallenes

14:45 Tea break

Session 2 *Chair: Sangit Kumar*

15:15 Invited Talk: **Victor Mamane** (*CNRS & Univ. of Strasbourg, France*)
Chalcogen Bonding Involving Tellurium: Study in Solution and Catalysis

15:45 Short Talks: **Laura Orian** (*Università degli Studi di Padova, Italy*)
Toward a rational design of ROS scavengers: does chalcogen matter?
Markus S. Seidl (*Univ. of Regensburg, Germany*)
Atypical S_N1 Reactions at Carbon Enabled by σ-Bond Quantum Poling
Magdalena Obieziurska-Fabisiak (*N. Copernicus Univ., Poland*)
Synthesis and bioactivity evaluation of *ortho*-substituted β-carbonyl phenyl selenides

16:30 Invited Talk: **Pavel Arsenyan** (*Latvian Inst. of Organic Synthesis, Latvia*)
Selenium in medicinal and material chemistry: a blessing and a curse

17:00 Invited Talk: **Vijay Pal Singh** (*Panjab University, India*)
Benzoselenazole Antioxidants with Potential Biological Applications against Oxidative Damage

17:30 Tea break

17:45 **Evening Lecture** ("A Musical Surprise")

Program

Wednesday, August 27

Session 3

Chair: Thomas Wirth

- 9:00 Plenary Lecture: **Anna Kipp** (*Friedrich-Schiller-Univ. Jena, Germany*)
 Nutritional intake and homeostatic regulation of selenium
- 9:45 Keynote Lecture: **Barbara Nawrot** (*CBMM Łódź, Poland*)
 2-Thio- and 2-Seleno-uridines – The Key Players of tRNA Transcriptomics
- 10:15 Short Talk+: **Vito Lippolis** (*Università degli Studi di Cagliari, Italy*)
 Concurrent Intermolecular Halogen and Chalcogen Bonds in Bis(Pyridine)-Substituted Tellurophene-Dihalogen Adducts: Structural Insights and Reactivity Trends

10:30 Tea break

Session 4

Chair: Fabian Mohr

- 11:00 Keynote Lecture: **Michio Iwaoka** (*Tokai Univ., Japan*)
 Chemical and Biological Applications of Selenocysteine-Containing Peptides
- 11:30 Invited Lecture: **Christopher Williams** (*Vanderbilt Univ., TN, USA*)
Context-Dependent Roles of Selenoprotein P in Intestinal Inflammation and Tumorigenesis
- 12:00 Short Talks: **Avinash Chaurasia** (*Banaras Hindu Univ., India*)
 Hg(II) and Pb(II) detoxification using s-triazine core-based N₃Se₃ type organoselenium moieties
- Wei Cao** (*Beijing Normal Univ., China*)
 Selenium-Modified Melanins and their Radiation Protecting Properties *In Vivo*
- Alessandro Rubbi** (*Università degli Studi di Padova, Italy*)
 Molecular Mechanisms of Poisoning: the Toxicity of Methyl Cadmium against (Seleno)Cysteine

12:30 Lunch

Session 5

Chair: Elżbieta Wojaczyńska

- 13:45 Plenary Lecture: **Claus Jacob** (*Saarland Univ., Germany*)
 From Organic Waste to Selenium Sulfide: A Bio-Based Synthetic Strategy
- 14:30 Keynote Lecture: **Huaping Xu** (*Tsinghua Univ., China*)
 Non-Carbon Main Chain Polytelluroxane
- 15:00 Short Talks: **Laura G. Sarbu** (*"Alexandru Ioan Cuza" Univ., Romania*)
 Selenium halide induced bridge formation in [2.2]paracyclophanes
- Luca Sancineto** (*Univ. of Perugia, Italy*)
 Electrophilic selenylation of electron rich aromatics, a DoE guided approach
- Shenghan Zhang** (*Tsinghua University, China*)
 Radiation Protection Polytelluroxane Material

15:30 Tea break

Session 6

Chair: Vito Lippolis

16:00 Short Talk+:

Hua Lu (*Peking University, China*)

High-Throughput and Machine Learning-Assisted Synthesis of Selenopolypeptides for Biomedicine

16:15 Short Talks:

Graciela Mahler (*Universidad de la República, Uruguay*)

Unveiling Selenosemicarbazones as Covalent Inhibitors of SARS-CoV-2

Main Proteases: Mechanistic Perspectives

Ryusei Hamano (*University of Tsukuba, Japan*)

Preparation of a Bulky Ferrocenyl Ligand Bearing a Selenium-coordinating Moiety and Its Application towards Isolable Organosilylenes

Chen-Wei Liu (*National Dong Hwa Univ., Taiwan*)

Atomically Precise Alloys Stabilized by Se-donor Ligands

17:00 Short Talks:

Lucian M. Birsa (*"Alexandru Ioan Cuza" Univ., Romania*)

A New Bridge in [2.2]Cyclophanes: The Addition of Se₂Cl₂ to Pseudo-Geminally Substituted Bispropargylic Alcohols

Chaowei He (*Tsinghua University, China*)

Controlling Branching Morphology in Dynamic Selenium Crystal via Stress Engineering

Svastik Jaiswal (*IISER Bhopal, India*)

Directing Group Strategy for the Isolation of Organoselenium(VI)

Benzoselenonates: Metal-Free Catalysts for Hydrogen Evolution Reaction

17:30 Keynote Lecture:

Vanessa do Nascimento (*Univ. Federal Fluminense, Brazil*)

Chalcogeno-Functionalization as a Tool: From Supramolecular Catalysts to Bioactive Compounds

18:00 **Evening Special** (*"A Historical Surprise"*)

Program

Friday, August 29

Session 7

Chair: Antonio L. Braga

- 9:00 Keynote Lecture: **Sangit Kumar** (*IISER Bhopal, India*)
Bidentate Ligand Derived Organochalcogens: Synthesis to Catalytic Applications
- 9:30 Keynote Lecture: **Francesca Marini** (*Univ. of Perugia, Italy*)
Electrophiles Containing Selenium at High Oxidation State: Insight into Reactivity and Biological Property
- 10:00 Invited Lecture: **Fabio De Moliner** (*The Univ. of Edinburgh, United Kingdom*)
Benzoselenadiazoles as tunable fluorophores and photosensitizers
- 10:30 Short Talk+: **Claudio Santi** (*Univ. of Perugia, Italy*)
Reimagining Selenium Role in Medicinal Chemistry: The Role of Se-S Bonds

10:45 Tea break

Session 8

Chair: Ludger Wessjohann

Laudator: Ignacio Vargas-Baca

- 11:15 Keynote Lecture: **Ignacio Vargas-Baca** (*McMaster Univ., Canada*)
From Obscurity to Mainstream: The Rise of Chalcogen Bonding
- 11:45 Best Short Talks Prize & Laudatio Wolfgang HH Günther Award
- 12:15 Award Lecture: **Tristram Chivers** (*Univ. of Calgary, Canada*)
- 12:45 Award Lecture: **Jens Beckmann** (*Bremen Univ., Germany*)
Selenium and Tellurium Centered Radical Cations
- 13:15 Closing Ceremony with Preview 17th ICCST
- 13:30 Goodbye Coffee & Snacks