

Functions and pathological dysfunctions of RNA and proteins

ICS Symposium Honoring Wolf Prize Laureates
Chuan He, Jeffrey W. Kelly, and Hiroaki Suga

Wednesday, June 14, 2023

The David Lopatie Conference Centre, Weizmann Institute of Science



Speakers:



Hiroaki Suga



Ashraf Brik



Roderich Süßmuth



Chuan He



Moran Shalev Benami



Chunxiao Song



Jeffrey W. Kelly



Rina Rosenzweig



Ronald T. Raines



Emily P. Balskus



Xiaoguang Lei



Jeffrey W. Bode

8:30 Gathering
9:00 Opening session
Ehud Keinan, President, Israel Chemical Society

Session 1 | **Chair: Mira Amiram**
Ben-Gurion University of the Negev

9:20 **Hiroaki Suga**, University of Tokyo
Macrocyclic peptide therapeutics
9:50 **Ashraf Brik**, Technion
Novel approaches to Modulate Ubiquitin Signaling: Chemistry and Biology
10:15 **Roderich Süßmuth**, TU Berlin
Peptide natural products as sources for new drugs
10:40 ☐ Coffee break

Session 2 | **Chair: Noam Stern Ginossar**
Weizmann Institute of Science

11:00 **Chuan He**, University of Chicago
Reversible RNA methylation in gene expression regulation
11:30 **Moran Shalev Benami**, Weizmann Institute of Science
When the Heat Is On - Turn Up the Ac(4C) - A Near Atomic Resolution Glance into RNA Acetylation
11:55 **Chunxiao Song**, University of Oxford
Chemical biology tools in epigenetics to advance cancer detection and cancer biology

12:20 🍴 Lunch

Session 3 | **Chair: Meytal Landau**
Technion

13:20 **Jeffery W. Kelly**, The Scripps Research Institute
Pharmacological Adaptation of Proteostasis to Ameliorate Neurodegenerative Diseases
13:50 **Rina Rosenzweig**, Weizmann Institute of Science
Unraveling the mechanism driving human chaperone-mediated amyloid disaggregation
14:15 **Ronald T. Raines**, MIT
Lessons from Collagen
14:40 ☐ Coffee break

Session 4 | **Chair: Micha Fridman**
Tel-Aviv University

15:00 **Emily P. Balskus**, Harvard University
Deciphering the human microbiome with chemistry
15:25 **Xiaoguang Lei**, Peking University
Chronic Itch: from Mechanism to Drug Discovery
15:50 **Jeffrey W. Bode**, ETH Zurich
Atomically Tailored Proteins and their Applications
16:15 Concluding remarks

Organizing Committee:

- Ehud Keinan
- Rina Rosenzweig
- Noam Stern-Ginossar
- Milko van der Boom

Sponsors:

- Faculty of Chemistry
- Faculty of Biochemistry
- Faculty of Biology



Conference coordinator & accessibility issues:

Shimrit Cohen | shimritc@weizmann.ac.il

Registration



<https://tinyurl.com/z94u89xs>