



מכון ויצמן למדע

WEIZMANN INSTITUTE OF SCIENCE

ULTRA-HIGH FIELD NMR SYMPOSIUM

February 25-26, 2020

The David Lopatie Conference Centre
Weizmann Institute of Science

PROGRAM

TUESDAY
FEBRUARY 25

Chair: Michal Neeman

9:00 – 9:30

Gathering, Registration

9:30 – 9:40

Opening

Michal Neeman, Weizmann Institute of Science

9:40 – 10:20

Integrative Multidisciplinarity in the Natural Sciences

Angela Gronenborn, U. Pittsburgh

10:20 – 11:00

Integrative Structural Biology of RNPs: Telomerase and 7SK

Juli Feigon, UCLA

11:00 – 11:20

 **Coffee break**

Chair: Jordan Chill

11:20 – 12:00

Structure and Dynamics of SMAD Proteins

Maria Macias, IRB Barcelona

12:00 – 12:40

Un-structural Biology by NMR Spectroscopy

Roberta Pierattelli, CERM, U. Florence

12:40 – 13:40

 **Lunch break**

Chair: Assaf Tal

13:40 – 14:20

TBA

Rainer Kuemmerle, Bruker BioSpin

14:20 – 15:00

From MRI to NMR and Back: A Lesson from *in situ* Studies of Nanocrystals Formation

Amnon Bar-Shir, Weizmann Institute of Science

15:00 – 15:40

In-cell NMR at 1GHz (and beyond): Opportunities, Challenges & Obstacles

Phil Selenko, Weizmann Institute of Science

15:40 – 16:00

 **Coffee break**

Chair: Eva Meirovitch

16:00 – 16:40

Complex Dynamics and Dynamic Complexes: The Functional Role of Intrinsically Disordered Proteins in Biology

Martin Blackledge, IBS CEA

16:40 – 17:20

Chin-up Solution NMR: You Are Doing Alright!

Lewis Kay, U. Toronto

17:20 – 18:00

A Tour of the NMR Facilities

Supported by
The Chorafas Institute
for Scientific Exchange



ULTRA-HIGH FIELD NMR SYMPOSIUM

February 25-26, 2020

The David Lopatie Conference Centre
Weizmann Institute of Science

PROGRAM

WEDNESDAY
FEBRUARY 26

Session in honor of Shimon Vega

Chair: Amir Goldbourn

- | | |
|---------------|---|
| 9:00 – 9:25 | Gathering, Registration |
| 9:25 – 9:30 | Opening Amir Goldbourn, Tel-Aviv University |
| 9:30 – 9:45 | NMR at Weizmann - Early Days Shimon Vega, Weizmann Institute of Science |
| 9:45 – 10:25 | High Frequency DNP: Time Domain Methods and Applications to Amyloid Structure Robert Griffin, MIT |
| 10:25 – 11:00 | Endogenous DNP Approaches for Probing Functional Inorganic Materials Michal Leskes, Weizmann Institute of Science |
| 11:00 – 11:20 | Coffee break |

Session in honor of Shimon Vega

Chair: Ilia Kaminker

- | | |
|---------------|---|
| 11:20 – 12:00 | DNP Enhanced Solid-State NMR Spectroscopy at High Magnetic Field and fast MAS Anne Lesage, ENS-Lyon |
| 12:00 – 12:40 | In vivo Structural Biology Enabled by DNP MAS NMR Kendra Frederick, UT Southwestern |
| 12:40 – 13:40 | Lunch break |

Chair: Asher Schmidt

- | | |
|---------------|---|
| 13:40 – 14:15 | Intermolecular Transferred NOE Interactions in Small, Medium-sized and Large Protein Peptide Complexes Jacob Anglister, Weizmann Institute of Science |
| 14:15 – 14:55 | Dynamics of GPCR Signal Transmission and Allosteric Regulation Detected by NMR Stephan Grzesiek, U. Basel |
| 14:55 – 15:30 | TBA Rina Rosenzweig, Weizmann Institute of Science |
| 15:30 – 15:50 | Coffee break |

Chair: Daniella Goldfarb

- | | |
|---------------|--|
| 15:50 – 16:30 | Studies of Protein Folding, Unfolding, and Misfolding by Rapid Pressure-Jump NMR Ad Bax, NIDDK NIH |
| 16:30 – 17:10 | Dynamics in Protein Function from NMR Spin Relaxation: Theory, Experiments, and Applications Art Palmer, Columbia University |
| 17:10 – 17:50 | The Importance of Staying Hydrated Lucio Frydman, Weizmann Institute of Science |
| 17:50 | Concluding Remarks Daniella Goldfarb, Weizmann Institute of Science |