



VICTOR ROTHSCHILD MEMORIAL SYMPOSIA

THE INSTITUTE FOR ADVANCED STUDIES
AT
THE HEBREW UNIVERSITY

The 17th Jerusalem Fall School in Life Sciences Nuclear Organization and Dynamics

September 13 – 17, 2009

Directors: **Roger Kornberg** (Stanford University)
Yosef Gruenbaum (The Hebrew University)

PROGRAM

Sunday September 13

- | | |
|---|---|
| 08:30 – 09:45 | Registration and hanging the posters |
| 09:45 – 10:00 | Greetings by Roger Kornberg |
| 10:00 – 11:15 | Opening lecture - Liz Blackburn (UC San Francisco)
<i>Telomeres and telomerase</i> |
| A) Structural aspects of the nucleus | |
| 11:15 – 11:30 | Coffee break |
| 11:30 – 12:45 | Ohad Medalia (Ben-Gurion University)
<i>Structural analysis of the nuclear envelope revealed by cryo-electron tomography</i> |
| 12:45 – 14:30 | Lunch at the Belgium House |

- 14:30 – 15:45 Andy Belmont (University of Illinois)
Interphase and Mitotic Chromosome Structure
- 15:45 – 16:00 Coffee Break
- 16:00 – 18:00 Poster session I
- 18:00 – 20:00 School reception

Monday September 14

B) Chromatin organization

- 09:00 – 10:15 Liz Blackburn (UC San Francisco)
Telomere maintenance and the significance of assessing it
- 10:15 – 10:45 Coffee Break
- 10:45 – 12:00 Susan Gasser (The Friedrich Miescher Institute for Biomedical Research)
Anchored telomeres: effects on gene silencing and recombination
- 12:00 – 13:15 Yosef Gruenbaum
The nuclear lamina in health and disease
- 13:15 – 14:45 Lunch at the Belgium House
- 14:45 – 16:00 Eran Meshorer (The Hebrew University)
Chromatin plasticity in embryonic stem cells
- 16:00 – 16:30 Coffee Break
- 16:30 – 17:45 Thomas Jenuwein (MPI, Freiburg)
Epigenetic control by histone lysine methylation

Dinner for Speakers

Tuesday September 15

C) The periphery of the nucleus

- 09:00 – 10:15 Yosef Gruenbaum
LINC complexes in somatic and meiotic cells

10:15 – 10:45	Coffee Break
10:45 – 12:00	Katherine Wilson (Johns Hopkins School of Medicine) <i>Signal integration at the nuclear envelope</i>
12:00 – 13:15	Susan Gasser <i>Gene position through development in C elegans</i>
13:15 – 14:45	Lunch at the Belgium House

D) Nuclear dynamics

14:45 – 16:00	John Sedat (UC San Francisco) <i>New ways to think about chromosome and nuclear dynamics</i>
16:00 – 16:30	Coffee Break
16:30 – 17:45	Yaron Shav-Tal (Bar-Ilan University) <i>The dynamics of mRNA transcription, transport and export in the nucleus of living cells</i>

Dinner for Speakers

Wednesday September 16

E) Structural aspects of nuclear activities

09:00 – 10:15	Ueli Aebi (University of Basel) <i>From nuclear pore complex structure to nucleocytoplasmic transport - towards a bottom-up approach</i>
10:15 – 10:45	Coffee Break
10:45 – 12:00	Motti Choder (Technion, Israel Institute of Technology) <i>Gene expression is a circular process</i>
12:00 – 13:15	Howard Cedar (The Hebrew University) <i>DNA Replication - it's all in the timing</i>
13:15 – 14:45	Lunch at the Belgium House
14:45 – 16:00	Ruth Sperling (The Hebrew University)

pre-mRNA splicing - a network of interactions in an RNP machine.

16:00 – 16:30

Coffee Break

16:30 – 18:30

Poster session II

Dinner for Speakers

Thursday September 17

E) Nuclear activities II

09:00 – 10:15

Andy Belmont

Large-scale chromatin structure and dynamics of transcriptionally active loci

10:15 – 10:45

Coffee Break

10:45 – 12:00

Roger Kornberg

Chromatin Structure and Transcription

12:00 – 18:00 Tour of Jerusalem including lunch

19:00 Farewell dinner