

TENTATIVE PROGRAM (details may change)



The 25th School in Life Science on Signal Transduction November 4-8, 2018

Venue: Institute for Advanced Studies, Givat Ram, Jerusalem

Sunday, November 4

9.30-10.15 Registration

Session 1:

10.15-10.45 Opening session and greetings

10.45-12.15 **Tony Hunter** (Salk Institute): TBD

12.15-13.15 **Adi Kimchi** (Weizmann Institute): The protein interaction map of programmed cell death: from basic principles to a therapeutic vision

13.15-14.00 *Lunch break*

Session 2

14.00-15.00 **David Engelberg** (Hebrew University): Intrinsically active Erk1 is an oncoprotein while intrinsically active p38alpha is an inflammation-causing protein

15.00-16.00 **Tsaffrir Zor** (Tel Aviv University): A journey along the cAMP pathway

16.00-16.30 *Coffee break*

16.30-17.30 **Galia Blum** (Hebrew University): Cathepsin activity-based probes for macrophage research and cancer imaging

17.30- Networking event + opening reception

Monday, November 5

Session 1:

9.30-11.00 **Robert Lefkowitz** (Duke University): TBD

11.00-11.30 *Coffee break*

11.30-12.30 **Alex Levitzki** (Hebrew University): TBD

12.30-13.30 *Lunch break*

Session 2:

13.30-15.00 **Charles Zuker** (Columbia University): TBD

15.00-16.00 **Baruch Minke** (Hebrew University): The First Human Patient with a Loss of Function Mutation in TRPV1: Implications on the Role of TRPV1 in Inflammatory Pain

16.00-16.30 *Coffee break*

Session 3:

- 16.30-17.30 **Dan Cassel** (Technion): The discovery of the G protein switch mechanism
17.30-18.30 **Roger Kornberg** (Stanford University): Discovery of the Molecular Basis of Signal Transduction by Zvi Selinger
18.30-19.30 Reception
19.30-21.30 **Zvi Selinger memorial evening** (short informal talks by former students and colleagues)

Tuesday, November 6**Session 1:**

- 9.30-10.15 **Brian Kobilka** (Stanford University): Challenges in determining structures of GPCRs by crystallography and cryo-electron microscopy
10.15-11.00 **Brian Kobilka** (Stanford University): Structural insights into the dynamic process of G protein coupled receptor activation
11.00-11.30 *Coffee break*
11.30-12.30 **Maya Schuldiner** (Weizmann Institute): Systematic approaches to uncovering novel protein

Poster session:

- 12.30-13.15 *Lunch break + posters*
13.15-14.45 **Poster presentations**

Session 2:

- 14.45-15.45 **Masha Niv** (Hebrew University): How do GPCR taste receptors recognize their chemically diverse ligands?
15.45-16.00 *Coffee break*
16.00-19.00 Israel Museum guided tour
19.00- Dinner at Modern Restaurant (Israel Museum)

Wednesday, November 7**Session 1:**

- 9.30-11.00 **Michael Hall** (University of Basel): TBD
11.00-11.30 *Coffee break*
11.30-12.30 **Hermona Soreq** (Hebrew University): Non-coding RNA regulators of Cholinergic Signalling in Anxiety and Metabolic-associated Risks
12.30-13.30 *Lunch break*

Session 2:

- 13.30-15.00 **Joseph Schlessinger** (Yale University): TBD
15.00-16.00 **Mickey Kosloff** (University of Haifa): Deciphering G protein-RGS interaction specificity at the family level
16.00-16.30 *Coffee break*

Session 3:

- 16.30-17.30 **Natalie Elia** (Ben Gurion University): Applying high resolution microscopy for structure-function studies of the ESCRT membrane fission cellular machine
- 17.30-18.30 **Naama Barkai** (Weizmann Institute): TBD
- 19.00- Dinner - TBD

Thursday, November 8

Session 1:

- 9.00-10.00 **Benny Shilo** (Weizmann Institute): Buffering morphogen gradients during development
- 10.00-11.00 **Meytal Landau** (Technion): Functional Amyloid Fibrils
- 11.00-11.30 *Coffee break*
- 11.30-12.30 **Naomi Habib** (Hebrew University): The Cellular and Molecular Landscape of Alzheimer's Disease
- 12.30- Packed lunch + Guided tour in Jerusalem