



אוניברסיטת תל-אביב

TEL AVIV UNIVERSITY



2012

פרס בינלאומי בביופיזיקה
ע"ש ריימונד ובברלי סאקלר

12 בדצמבר, 2012

2012

The Raymond and Beverly Sackler
International Prize in Biophysics

December 12, 2012

אודיטוריום זאבי, בית התפוצות
קמפוס אוניברסיטת תל-אביב

Zeevi Auditorium, Beit Hatfutsot
Tel Aviv University Campus

takes pleasure in inviting you to

The Raymond & Beverly Sackler International Prize in Biophysics

The Sackler Biophysics Symposium on: *Physical Principles of Biological Systems*

Tel Aviv University, Wednesday, December 12, 2012

- 09:30–09:40 **Sam Safran**
Weizmann Institute of Science
Opening and introductory remarks
- 09:40–10:10 **Zhong-can Ou-Yang**
ITP, Chinese Academy of Sciences, Beijing
Elastic theory of fluid membranes of Helfrich model and its application in other soft matters
- 10:10–10:40 **Avinoam Ben-Shaul**
Hebrew University of Jerusalem
Energy, entropy and bending elasticity of DNA packaging in viral capsids
- 10:40–11:10 **Yuval Ebenstein**
Tel Aviv University
An experimental toolbox for single molecule studies of genomic variation
- 11:10–11:30 Coffee break
- 11:30–12:00 **Haim Diamant**
Tel Aviv University
In-plane dynamics of heterogeneous membranes

- 12:00–12:30 **Adrian Parsegian**
University of Massachusetts, Amherst
Solvent entropic drive in viral infectivity
- 12:30–13:00 **Frank Jülicher**
Max Plank Institute, Dresden
Active processes in cells and tissues
- 13:00–14:30 Lunch
- 14:30–15:00 **Prize Ceremony**
Awarding the Sackler Biophysics Prize for 2012 to:
Carlos J. Bustamante
University of California, Berkeley
Wolfgang Helfrich
Freie Universität, Berlin
Opening of Ceremony
David Andelman
School of Physics & Astronomy
Tel Aviv University
Joseph Klafter
President, Tel Aviv University
Introduction of the Laureates
Michael Kozlov
Faculty of Medicine, Tel Aviv University
Michael Urbakh
School of Chemistry, Tel Aviv University
- 15:00–15:50 **Wolfgang Helfrich**
Freie Universität, Berlin
How to get from physics to biophysics?
- 15:50–16:40 **Carlos Bustamante**
University of California, Berkeley
Division of labor and coordination among the subunits of a viral ring ATPase