



Professor Marek Karliner, Head of the Institute

פרופסור מרק קרלינר, ראש המכון

21 October 2015

MK- 2010

Dr. Raymond R. Sackler, Hon. KBE  
 One Stamford Forum  
 Stamford, Connecticut 06901-3431  
 U.S.A.

Dear Dr. Sackler,

I have the honor to serve as the new director of the Mortimer and Raymond Sackler Institute of Advanced Studies since March 2015, upon Prof. Joseph Klafter's appointment.

It gives me pleasure to send you the Mortimer and Raymond Sackler Institute of Advanced Studies Album for the Academic Year 2014/2015. We had the privilege to have the following Sackler Scholar\* and eight Sackler Lecturers:

Prof. Valerian Kagan	(Medicine) from the University of Pittsburgh
Prof. Gerald Mahan	(Physics) from Pennsylvania State University;
Prof. Anthony Perl	(Urban Studies Program) from Simon Fraser University, Vancouver
Prof. Sarah Spiegel	(Biochemistry and Molecular Biology) from Virginia Commonwealth University
Prof. Harvey Lodish	(Biology and Biological Engineering) from Massachusetts Institute of Technology;
Prof. Susan Margulies	(Bioengineering) from the University of Pennsylvania
Prof. Steven Fraade*	(History of Judaism) from Yale University
Prof. Federico Capasso	(Applied Physics) from Harvard University;
Prof. Alex Mesoudi	(Anthropology) from Durham University.

The Institute continues to provide a framework for hosting some of the most distinguished scholars of their fields. We are continuously looking for ways to expand this activity that distinguishes Tel Aviv University as an excellent academic institute of higher learning rather than merely a professional school.

Thank you very much for your continuing support. Best wishes for a healthy and happy New Year.

Sincerely,

Prof. Marek Karliner

Director, Mortimer and Raymond Sackler Institute of Advanced Studies

**Academic Year 2014 - 2015**

Professor VALERIAN KAGAN	November 3 – 11, 2014
Professor GERALD MAHAN	January 5 – 12, 2015
Professor ANTHONY PERL	February 10 – 19, 2015
Professor SARAH SPIEGEL	March 13 – 22, 2015
Professor HARVEY LODISH	March 15 – 26, 2015
Professor SUSAN MARGULIES	March 14 – 23, 2015
Professor STEVEN FRAADE	February 19 – April 29, 2015
Professor FEDERICO CAPASSO	June 1 - 12, 2015
Professor ALEX MESOUDI	April 22 – June 10, 2014

**PROFESSOR VALERIAN KAGAN**



Mortimer and Raymond Sackler  
Institute of Advanced Studies

TEL AVIV UNIVERSITY



אוניברסיטת תל-אביב

המכון ללימודים מתקדמים  
ע"ש מורטימר וריימונד סאקלר

**Professor Valerian E. Kagan**  
Departments of  
Environmental Health, Pharmacology  
Chemical Biology and Chemistry  
University of Pittsburgh  
Pittsburgh, Pennsylvania, USA

פרופסור ולריאן כאגאן  
המחלקות לבריאות הסביבה,  
לפרמקולוגיה, ביולוגיה כימית וכימיה,  
אוניברסיטת פיטסבורג  
פיטסבורג, פנסילבניה, ארה"ב

Lecture

הרצאה

### "OXIDATIVE STRESS AND DAMAGE VS OXIDATIVE SIGNALING BY CARDIOLIPINS"

The lecture will be held on Tuesday,  
4 November 2014, at 13:00, in room 100,  
Sackler School of Medicine building,  
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום שלישי, 4 בנובמבר  
2014, בשעה 13:00, בחדר מס' 100,  
בבניין לרפואה ע"ש סאקלר,  
אוניברסיטת תל-אביב, רמת-אביב

*Light refreshments will be served  
at 12:45 before the lecture*

כיבוד קל יוגש לפני ההרצאה  
בשעה 12:45

Lecture

הרצאה

### "CAN OXIDATIVE STRESS BIODEGRADE NANOPARTICLES?"

The lecture will be held on Thursday,  
6 November 2014, at 13:00, in room 100,  
Sackler School of Medicine building,  
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום חמישי, 6 בנובמבר  
2014, בשעה 13:00, בחדר מס' 100,  
בבניין לרפואה ע"ש סאקלר,  
אוניברסיטת תל-אביב, רמת-אביב

*Light refreshments will be served  
at 12:45 before the lecture*

כיבוד קל יוגש לפני ההרצאה  
בשעה 12:45





Prof. Valerian Kagan at one of his lectures



October 22nd 2015

**Visit of Professor Valerian Kagan  
Sackler Lecturer, 2-11.11.2014**

*A report Submitted by Prof. Dov Lichtenberg  
Department of Physiology and Pharmacology*

Prof. Valerian Kagan of the Department of Environmental and Occupational Health, University of Pittsburgh and Sackler Lecturer of the Mortimer and Raymond Sackler Institute of Advanced Studies for 2014-2015 arrived at Tel Aviv University on the 2nd of November and stayed until the 11th. His visit was dedicated to intensive meetings with researchers and students of both the Faculty of Medicine and the Faculty of Life Sciences, who study Biochemistry, Biophysics, Cell Biology and Pharmacology. Dr Kagan made major contributions to the understanding of the pathogenesis of oxidative-damage related diseases and of programmed cell death.

He is the founder of two new fields of research (i) "Oxidative Lipidomics", which made a breakthrough contribution to the understanding of the specific mechanisms responsible for oxidation-induced cell damage, hence to the discovery, development and effective implementation of antioxidant preventive and therapeutic strategies. (ii) The new field denoted nanotoxicology.

During the course of his visit, Prof. Kagan presented two lectures in which he described these two fields: "Oxidative Stress And Damage Vs Oxidative Signaling By Cardiolipins" given on November 4th 2014 and "Can Oxidative Stress Biodegrade Nanoparticles?" held on November 6th 2014. The two (brilliant!) lectures attracted different groups of researchers: cell biologists and biochemists in the lecture on oxidative stress, pharmacologists in the nanotoxicity lecture.

Professors Daniel Chananshvili, Rafi Korenstein, Ronit Satchi Fainaro and I had interesting discussions and plan future collaborations with Prof Kagan. Prof Azem of the Faculty of Life Science had deep discussions with Prof Kagan on issues of common interest. All of us are grateful to the Sackler Institute for supporting Professor Kagan's fellowship in Tel Aviv.

It was a very interesting and enjoyable visit for both our faculty and students and Prof Kagan himself, who wrote: "*I enjoyed enormously my visit and stay with you - thank you so much for the hospitality, great arrangements and meetings with excellent people. That was also very educational for me*". We share this feeling and thank the Sackler Institute for making the visit possible

Yours respectfully,

Dov Lichtenberg, PhD,  
Department of Physiology and Pharmacology



**PROFESSOR GERALD MAHAN**

*Mortimer and Raymond Sackler  
Institute of Advanced Studies*

TEL AVIV UNIVERSITY



אוניברסיטת תל-אביב

המכון ללימודים מתקדמים  
ע"ש מורטימר וריימונד סאקלר

**Professor Gerald Mahan  
Department of Physics  
Pennsylvania State University  
Pennsylvania, USA**

**פרופסור ג'רלד מאהאן  
המחלקה לפיזיקה  
אוניברסיטת פנסילבניה  
פנסילבניה, ארה"ב**

*Chemical Physics Seminar*

סמינר בפיסיקה כימית

### "RECENT ADVANCES IN THERMOELECTRICS"

The seminar will be held on Thursday,  
8 January 2015, at 16:10, in Room 315,  
Multidisciplinary Research Building,  
Tel-Aviv University, Ramat-Aviv

הסמינר יתקיים ביום חמישי, 8 בינואר  
2015, בשעה 16:10, בחדר מס' 315, בבניין  
הרב תכליתי להנדסה ומדעים מדויקים,  
אוניברסיטת תל-אביב, רמת-אביב

*Light refreshments will be served  
at 16:00 before the lecture*

כיבוד קל יוגש לפני ההרצאה  
בשעה 16:00

*Physics Colloquium*

קולוקוויום בפיזיקה

### "NANOSCALE THERMAL TRANSPORT"

The colloquium will be held on Sunday,  
11 January 2015, at 16:00, in Melamed  
Hall (6), Shenkar Physics Building,  
Tel Aviv University, Ramat Aviv.

הקולוקוויום יתקיים ביום ראשון,  
11 בינואר 2015, בשעה 16:00,  
באולם מלמד (6), בניין שנקר לפיזיקה,  
אוניברסיטת תל אביב, רמת אביב.

*Light refreshments will be served  
at 15:45 before the lecture*

כיבוד קל יוגש לפני ההרצאה  
בשעה 15:45



Prof. Abraham Nitzan and Prof. Gerald Mahan



Prof. Gerald Mahan at one of his lectures





**Professor Abraham Nitzan**  
School of Chemistry  
The Raymond and Beverly Sackler  
Faculty of Exact Sciences

פרופסור אברהם ניצן  
בית הספר לכימיה  
הפקולטה למדעים מדויקים  
ע"ש ריימונד ובברלי סאקלר

July 6, 2015

## Report on the visit of Professor Gerald Mahan, Sackler lecturer 2015.

Professor Gerald Mahan was a Sackler Lecturer during 5 – 12 January 2015, hosted by the School of Chemistry and the Faculty of Exact Sciences. Prof. is a Distinguished Professor of Physics at Pennsylvania State University. Previously he was a professor at the University of Tennessee, Indiana University, and the University of Oregon. He was also a senior scientist at Oak Ridge National Laboratory, and an employee at the corporate research center of the General Electric Company. His physics education was at Harvard (BA) and the University of California at Berkeley (PhD). He has over 250 research publications in refereed journals and has published numerous books, including Many-Particle Physics (Plenum, 2000, 3rd ed.), Quantum Mechanics in a Nutshell (Princeton, 2008), and Condensed Matter in a Nutshell (Princeton, 2010). He is a fellow of the American Physical Society, a member of the U.S. National Academy of Science, of the American Academy of Arts and Science, and of the Royal Society of Arts and Science in Gothenburg, Sweden. His present research interests include thermoelectrics, nanoscale thermal transport, and surface polaritons.

Professor Mahan gave three lectures during his visit:

Informal Seminar: Tuesday January 6 16:00

### **Theory of image potentials and surface modes**

Recent calculations on image potentials in a variety of materials were presented. Conventional wisdom, which is wrong, states that image potentials are caused by the polarization of surface modes. Arguments were presented for the idea that electron-electron interactions in metals gives the wrong sign of the image potential. Layered materials have no surface modes but do have image potentials. A new surface mode in polar insulators was predicted.

Chemical Physics Seminar, Thursday, 8 January 2015, at 16:00,



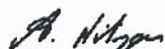
### **Recent Advances in Thermoelectrics**

Recent experimental advances for improving the efficiency of thermoelectric devices were discussed: mainly for power generation. One example is the use of nanoinclusions to reduce thermal conductivity. Prof. Mahan also discussed some of his recent calculations on the theory of thermoelectrics, including the first comprehensive theory of phonon-drag in insulators. He also discussed his theory of the Seebeck coefficient at low temperatures.

Physics Colloquium Sunday, 11 January 2015, at 16:00

### **Nanoscale thermal transport**

Theory and experiment of heat flow at nanoscale dimensions were discussed. What is the best heat conductor? is BAs better than diamond? What is the worst heat conductor? Prof. Mahan also discussed thermal boundary (Kapitza) resistance, and our theories of it: (i) between a metal and an insulator, and (ii) between a liquid and a solid.



Abraham Nitzan  
Professor of Chemistry

**PROFESSOR ANTHONY PERL**



*Mortimer and Raymond Sackler  
Institute of Advanced Studies*

TEL AVIV UNIVERSITY

**Professor Anthony Perl  
Urban Studies Program  
Simon Fraser University  
Vancouver  
British Columbia, Canada**



אוניברסיטת תל-אביב

המכון ללימודים מתקדמים  
ע"ש מורטימר וריימונד סאקלר

**פרופסור אנתוני פרל  
התכנית ללימודים עירוניים  
אוניברסיטת סימון פרייזר  
ונקובר  
קולומביה הבריטית, קנדה**

*Lecture  
in the framework of an evening study  
A Year to the Transportation Research Unit*

*הרצאה  
במסגרת ערב עיון  
שנה לפתיחת היחידה למחקר תחבורה*

## **"HOW TRANSPORT REVOLUTIONS COULD FACILITATE THE TRANSITION TO POST-CARBON MOBILITIES"**

The lecture will be held on Tuesday,  
12 February 2015, at 17:30,  
in room 115, Yad-Avner building,  
10 Zelig street, Afeka,  
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום חמישי,  
12 בפברואר 2015, בשעה 17:30,  
בחדר מס' 115, בבניין יד-אבנר,  
רח' זליג 10, אפקה,  
אוניברסיטת תל-אביב, רמת-אביב

*Lecture in the framework of the TAU  
Academic Forum for Sustainability Science*

*הרצאה במסגרת פגישת הפורום האקדמי  
לחקר מדע הקיימות באוניברסיטת תל אביב*

## **"BUILDING RESILIENCE INTO TRANSPORT DEVELOPMENT: LEARNING HOW TO BALANCE PASSAGE WITH PLACE IN URBAN TRANSPORTATION"**

The lecture will be held on Tuesday,  
17 February 2015, at 10:00,  
in room 104, Yad-Avner building,  
10 Zelig street, Afeka,  
Tel-Aviv University, Ramat-Aviv.

ההרצאה תתקיים ביום שלישי,  
17 בפברואר 2015, בשעה 10:00,  
בחדר מס' 104, בבניין יד-אבנר,  
רח' זליג 10, אפקה,  
אוניברסיטת תל-אביב, רמת-אביב.





Prof. Anthony Perl at his lecture





21 August 2015

Visit of Professor Anthony Perl  
Urban Studies Program, Simon Fraser University  
Vancouver, British Columbia, Canada

**Mortimer and Raymond Sackler IAS Lecturer 2014/5, Tel Aviv University,  
8- 21 February 2015**

Report by Dr. Moshe Givoni, Transport Research Unit, Department of  
Geography and the Human Environment, Tel Aviv University

Professor Perl's visit to Tel Aviv University, his first visit to Israel, started actually in Haifa, in a meeting we attended at the Israeli Railways, who were interested in Prof. Perl's expertise in rail transport. The visit continued with a keynote lecture at the Israeli Regional Science Association conference, which was held at the Technion. The rest of the visit was spent at Tel Aviv University. On Thursday 12 February, Dr. Perl gave the keynote lecture at the 1<sup>st</sup> anniversary of the Transport Research Unit. The lecture, titled, **How Transport Revolutions could facilitate the transition to post-carbon mobilities**, attracted a large audience, largely transport researchers, students, policy makers and practitioners. Later on in the visit, on Tuesday 17 February, Prof. Perl gave a lecture in a workshop organized by the Tel Aviv University "Sustainability Forum" on **Building Resilience Into Transport Development: Learning How to Balance Passage with Place in Urban Transportation**, which was held at the Department Geography and the Human Environment. In addition, special meetings were organized with students of the Transport Research Unit, and with several of the lecturers at the Department. A special meeting was also held with the Head of the department and several other leading researchers to learn from Prof. Perl experience with establishing an Urban Studies research center and program, this was to advise on the establishment of a similar center at Tel Aviv University (now established and named "City Center").

Parallel to the above, and importantly, most of the time of Prof. Perl's visit to Israel was devoted to advancing our research work on Transport Infrastructure. This has now matured into a well-developed new framework for considering transport infrastructure especially when it reached its half-life. A presentation of the new framework, titled, **To Renew, Repurpose, Reconfigure or Remove? The 4R framework for enhancing the long term value of transport infrastructure**, is planned for next year's World Conference on Transport Research in China (July 2016) and before that in the Israeli Geographical association conference in Jerusalem (December 2015).





The visit has been a great success in many respects, for example in raising the profile of the young Transport Research Unit, but mainly in terms of the ability to progress the research collaboration and to establish the foundation for a new way to consider Transport Infrastructure, that will surely have an impact in academia and in transport planning. Prof. Perl and I continue to work closely together, and are sure this collaboration will continue also to other areas of transport and policy research.

I would like to thank the Sackler Institute for supporting Professor Perl's visit to Tel Aviv University. It was most rewarding for everyone concerned.

Sincerely yours

Moshe Givoni

Senior Lecturer  
Head, Transport Research Unit,  
Department of Geography and the Human  
Environment, Tel-Aviv University,  
P.O.B 39040, Ramat Aviv,  
Tel Aviv 69978  
Israel  
Email: givonim@post.tau.ac.il

Visiting Research Associate  
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School of Geography and the Environment  
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Email: moshe.givoni@ouce.ox.ac.uk



**PROFESSOR SARAH SPIEGEL**





**Professor Sarah Spiegel**  
**Chair, Department of Biochemistry**  
**& Molecular Biology**  
**Virginia Commonwealth University**  
**School of Medicine**  
**Richmond, Virginia, USA**

**פרופסור שרה שפיגל**  
**ראש, המחלקה לביוכימיה**  
**ולביולוגיה מולקולרית**  
**ביה"ס לרפואה של**  
**אוניברסיטת וירג'יניה**  
**ריצ'מונד, וירג'יניה, ארה"ב**

*Lecture*

*הרצאה*

**"SPHINGOSINE-1-PHOSPHATE, FROM INSIPID LIPID TO KEY  
REGULATOR OF LYMPHOCYTE TRAFFICKING AND THE LINK  
BETWEEN INFLAMMATION AND CANCER"**

The lecture will be held on Sunday,  
15 March 2015, at 14:15, in room 100,  
Sackler Faculty of Medicine building,  
Tel-Aviv University, Ramat-Aviv

*Light refreshments will be served  
at 14:00 before the lecture*

ההרצאה תתקיים ביום ראשון, 15 במרץ  
2015, בשעה 14:15, בחדר מס' 100,  
בבניין הפקולטה לרפואה ע"ש סאקלר,  
אוניברסיטת תל-אביב, רמת-אביב

*כיבוד קל יוגש לפני ההרצאה  
בשעה 14:00*

*Lecture*

*הרצאה*

**"NOVEL ACTIONS OF SPHINGOSINE-1-PHOSPHATE AND THE MULTIPLE  
SCLEROSIS PRODRUG FTY720/FINGOLIMOD:  
IMPLICATIONS FOR EXTINCTION  
OF FEARFUL MEMORIES AND CANCER? "**

The lecture will be held on Wednesday,  
18 March 2015, at 14:15,  
in room 105, Sherman building,  
Tel-Aviv University, Ramat-Aviv

*Light refreshments will be served  
at 14:00 before the lecture*

ההרצאה תתקיים ביום רביעי,  
18 במרץ 2015, בשעה 14:15,  
בחדר מס' 105, בבניין שרמן,  
אוניברסיטת תל-אביב, רמת-אביב

*כיבוד קל יוגש לפני ההרצאה  
בשעה 14:00*





Prof. Sarah Spiegel at one of her lectures





Dr. Tsaffrir Zor

ד"ר צפריר צור

**To:** The Sackler Institute of Advanced Studies

28/05/2015

**Subject:** Summary of Prof. Sarah Spiegel's visit as a Sackler Lecturer

Dear Prof. Karliner,

I would like to express in this letter my gratitude for supporting and organizing the visit of Prof. Sarah Spiegel from the school of medicine at Virginia Commonwealth University as a Sackler Lecturer during March 13-21.

Prof. Spiegel is a world leader in the field of bioactive sphingolipids, in particular in relation to their roles in inflammation and in cancer.

The life sciences and medicine faculties at our university have greatly benefited from Prof. Spiegel's visit. Prof. Spiegel gave two different lectures, one in each faculty, attended by approximately 100 people. Personal meetings were held with nine faculty members. The lectures and meetings have helped to advance the research in our university. As obvious examples I will note that following these meetings, Prof. Spiegel has initiated collaboration with my lab, and to the best of my knowledge – also with at least two additional labs.

I met again with Prof. Spiegel just a couple of weeks ago in a conference in Turkey, and she told me again how fruitful was her lectureship at Tel-Aviv University.

Sincerely yours,

A handwritten signature in blue ink, appearing to read 'Tsaffrir Zor'.

Dr. Tsaffrir Zor

**PROFESSOR HARVEY LODISH**



Mortimer and Raymond Sackler  
Institute of Advanced Studies

TEL-AVIV UNIVERSITY



אוניברסיטת תל-אביב

המכון ללימודים מתקדמים  
ע"ש מורטימר וריימונד סאקלר

Professor Harvey F. Lodish  
Member, Whitehead Institute  
for Biomedical Research  
Prof. of Biology & Biological Engineering  
MIT, Cambridge, MA, USA

פרופסור הרזוי לודיש  
חבר במכון וויטהד למחקר ביו-רפואי  
פרופסור לביולוגיה ולהנדסה ביולוגית  
MIT  
קמברידג', מסצ'וסטס, ארה"ב

Lecture

הרצאה

**"SELF-RENEWAL OF HUMAN HEMATOPOIETIC  
PROGENITOR CELLS: DEVELOPMENT OF NOVEL THERAPIES  
ERYTHROPOIETIN - RESISTANT ANEMIAS"**

The lecture will be held on Sunday,  
22 March 2015, at 12:15, in room 201,  
Sackler Faculty of Medicine building,  
Tel-Aviv University, Ramat-Aviv

*Light refreshments will be served  
at 12:00 before the lecture*

ההרצאה תתקיים ביום ראשון, 22 במרץ  
2015, בשעה 12:15, בחדר מס' 201,  
בבניין הפקולטה לרפואה ע"ש סאקלר,  
אוניברסיטת תל-אביב, רמת-אביב

כיבוד קל יוגש לפני ההרצאה  
בשעה 12:00

Lecture in the framework of Mini-Symposium

הרצאה במסגרת מיני-סימפוזיון

MIT-Peking in TAU: "Development and signaling, from plants to mammals"

**"LINEAGE- SPECIFIC LONG NON-CODING RNAs THAT  
REGULATE DEVELOPMENT OF ERYTHROCYTES AND ADIPOCYTES  
(AND PROBABLY EVERY TISSUE)"**

The lecture will be held on Monday,  
23 March 2015, at 11:30, in room 201,  
Sackler Faculty of Medicine building,  
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום שני, 23 במרץ  
2015, בשעה 11:30, בחדר מס' 201,  
בבניין הפקולטה לרפואה ע"ש סאקלר,  
אוניברסיטת תל-אביב, רמת-אביב

Lecture

הרצאה

followed by informal meeting with students

ולאחריה מפגש בלתי פורמלי עם סטודנטים

**"DISRUPTIVE TECHNOLOGIES, DEVELOPING DRUGS,  
AND BUILDING COMPANIES TO TREAT DISEASE"**

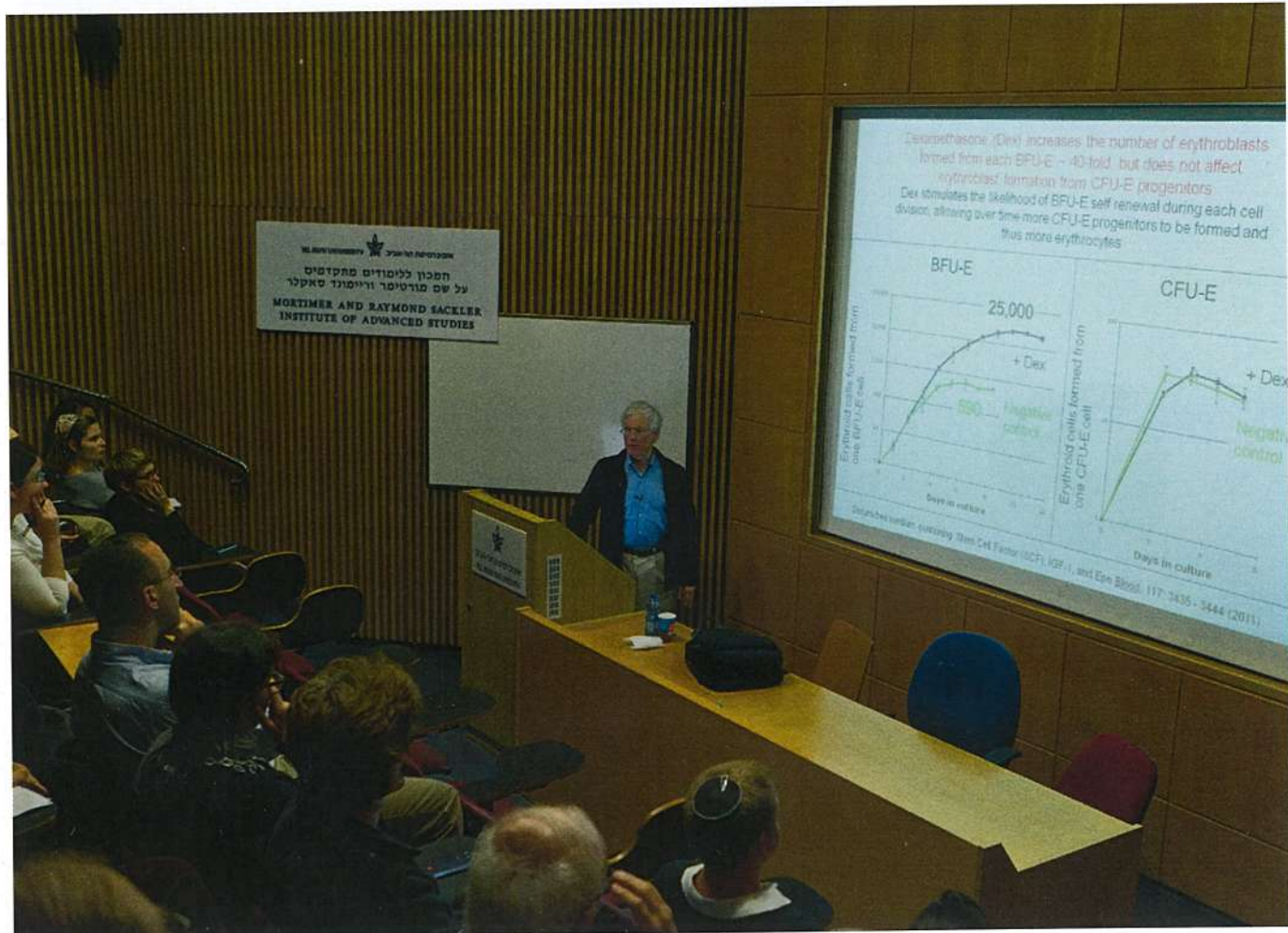
The lecture will be held on Tuesday,  
24 March 2015, at 12:15, in room 201,  
Sackler Faculty of Medicine building,  
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום שלישי, 24 במרץ  
2015, בשעה 12:15, בחדר מס' 201,  
בבניין הפקולטה לרפואה ע"ש סאקלר,  
אוניברסיטת תל-אביב, רמת-אביב

*Light refreshments will be served  
at 12:00 before the lecture*

כיבוד קל יוגש לפני ההרצאה  
בשעה 12:00









Prof. Drorit Neumann (Ph.D.)  
 Department of Cell and Developmental Biology  
 Tel 03-640-7256; Fax: 03-640-7432  
 Email: Histo6@nost.tau.ac.il

June 1, 2015

Report: Visit of Prof. Harvey Lodish at Tel Aviv University

The visit of Prof. Harvey Lodish at Tel Aviv University was a special privilege of hosting a leading scientist in the field of molecular and cellular biology.

Prof. Lodish is a founding member of the Whitehead Institute. He is the lead author of the widely used textbook *Molecular Cell Biology*; the book has been translated into ten languages and the seventh edition appeared in April 2012. He is a Member of the National Academy of Sciences, a Fellow of the American Association for the Advancement of Science, the American Academy of Arts and Sciences, the American Academy of Microbiology, and an Associate (Foreign) Member of the European Molecular Biology Organization. Prof. Lodish is Chair of the Scientific Advisory Board of the Massachusetts Life Sciences Center, the group charged with oversight of the state's 10- year \$1 billion investment in the life sciences. Dr. Lodish was a founder and scientific advisory board member of Genzyme, Arris, Millennium and Allogyne.

Having identified and characterized numerous surface membrane proteins that play a role in blood development, cell signaling, glucose transport, and lipid metabolism, there has been a wide interest in his lectures and the wish to have a chance to meet him for specific discussions. His visit was thus planned to achieve these goals.

Visit details

Due to his vast knowledge and research experience in an extensive range of topics, he lectured and met with researchers and students of both the Faculty of Medicine and the Faculty of Life Sciences, engaged in different areas of cell biology.

Lectures

During the course of his visit, Prof. Lodish gave three lectures.

- March 22<sup>nd</sup> - the first lecture: "**Self- Renewal of Human Hemtopoietic Progenitor Cells: Development of Novel Therapies Erythropoietin - Resistant Anemias**"
- March 23<sup>rd</sup> - the second lecture, in frame of a mini-symposium: MIT-Peking at TAU: "Development and Signaling, from Plants to Mammals"

Title of lecture: "**Lineage- specific long non-coding RNAs that regulate development of erythrocytes and adipocytes (and probably every tissue)**"

- March 24<sup>th</sup> - the title of the lecture: "**Disruptive Technologies, Developing Drugs, and Building Companies to Treat Disease**"

The lecture was followed by an informal meeting with students which lasted more than 2 hours!



Prof. Drorit Neumann (Ph.D.)  
Department of Cell and Developmental Biology  
Tel 03-640-7256; Fax: 03-640-7432  
Email: Histo6@nost.tau.ac.il

*All lectures were highly attended, received excellent feedback, and the meeting with the students was extremely inspiring.*

Meeting with scientists at the university

Researchers from the Faculties of Medicine and Life sciences (see below) also had personal meetings with Prof. Lodish - which were very productive.

**Faculty of Medicine:**

Prof. Drorit Neumann  
Dr. Koret Hirschberg  
Dr. Yankel Gabel  
Dr. Yechiel Elkabetz  
Prof. Hagit Eldar-Finkelman  
Profs. Nurit and Mati Shaklai  
Prof. Ehud Grossman  
Dr. Chen Luxenburg  
Prof. Dafna Benayahu

**From the Faculty of Life Sciences:**

Prof. Danny Chaimovitz  
Prof. Yoav Henis  
Prof. Gerardo Lederkremer  
Prof. Marcello Ehrlich

Other meetings

On Wednesday March 25<sup>th</sup>, Prof. Lodish met with Prof. Michael Hayden – from TEVA.

He then gave a talk at Bar-Ilan University, followed by an informal meeting with students.

In summary, the visit of Prof. Lodish, an internationally recognized leader scientist, was truly effective. It had a profound impact and contribution, from the scientific and biotechnology points of view. It was extremely successful for the faculty and memorable for the graduate students who were thrilled to meet Prof. Lodish in person and hear his perspectives on science, scientific careers and translational research.

Sincerely,



Drorit Neumann Ph.D.



**PROFESSOR SUSAN MARGULIES**



*Mortimer and Raymond Sackler  
Institute of Advanced Studies*

TEL AVIV UNIVERSITY



אוניברסיטת תל-אביב

המכון ללימודים מתקדמים  
ע"ש מורטימר וריימונד סאקלר

**Professor Susan Margulies, Ph.D.  
George H. Stephenson Professor  
of Bioengineering  
University of Pennsylvania  
Philadelphia, PA, USA**

**פרופסור סוזן מרגוליס  
פרופסור לביו-הנדסה  
ע"ש ג'ורג' סטפנסון  
אוניברסיטת פנסילבניה  
פילדלפיה, פנסילבניה, ארה"ב**

*Seminar*

סמינר

**"WHEN STRETCH HAPPENS:  
MITIGATING VENTILATOR INDUCED LUNG INJURY"**

The lecture will be held on Sunday,  
15 March 2015, at 10:15, in room 426,  
Sackler School of Medicine building,  
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום ראשון, 15 במרץ  
2015, בשעה 10:15, בחדר מס' 426,  
בבניין ביה"ס לרפואה ע"ש סאקלר,  
אוניברסיטת תל-אביב, רמת-אביב

*Light refreshments will be served  
at 10:00 before the lecture*

כיבוד קל יוגש לפני ההרצאה  
בשעה 10:00

*Seminar*

סמינר

**"A LARGE ANIMAL MODEL  
OF PEDIATRIC TRAUMATIC BRAIN INJURY"**

The lecture will be held on Sunday,  
15 March 2015, at 14:30, in room 315,  
Multidisciplinary Research Building,  
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום ראשון, 15 במרץ  
2015, בשעה 14:30, בחדר מס' 315, בבניין  
הרב תחומי למחקר בהנדסה ומדעים,  
אוניברסיטת תל-אביב, רמת-אביב

*Light refreshments will be served  
at 14:15 before the lecture*

כיבוד קל יוגש לפני ההרצאה  
בשעה 14:15





Prof. Susan Margulies at one of her lectures





May 29, 2015

Report regarding the visit of  
**Prof. Susan S. Margulies**  
 George H. Stephenson Term Professor in Bioengineering

Dr. Margulies is the George H. Stephenson Professor in Bioengineering, in the School of Engineering and Applied Science at the University of Pennsylvania, with over 30 years of experience in the area of traumatic brain injury research, and over 25 years in pulmonary biomechanics. Dr. Margulies is an international leader in biomechanics of head injury in infants and toddlers, integrating mechanical properties, animal studies, instrumented dolls, patient data, and computational models to identify injury mechanisms that are unique to children. Her recent studies have expanded to include innovative metrics of cognition and memory to assess injury progression and recovery in a large animal model, and preclinical trials testing novel therapies to improve outcomes after brain injury in children. Dr. Margulies received her BSE in Mechanical and Aerospace Engineering at Princeton University and her PhD in Bioengineering at the University of Pennsylvania. She has served or is on the editorial boards of the Journal of Physiology, the Journal of Biomechanical Engineering, the Journal of Biomechanics, American Journal of Physiology-Lung Cell and Molecular, and the Journal of Neurotrauma; she has served on grant review panels for NSF, NIH, and CDC, and has chaired the NIH RIBT study section. Dr. Margulies is a Fellow of the American Society of Mechanical Engineers, Biomedical Engineering Society, and American Institute for Medical and Biological Engineering. With funding from NIH, NSF, CDC, and the Department of Transportation, she has published over 125 peer-reviewed papers, and has trained 25 post-doctoral clinicians, engineers, and scientists, 19 graduate students, and dozens of undergraduates in her laboratory. Trainees from the Margulies lab span a range of career paths, including, engineering consulting, non-research positions in the FDA, research in industry and academia, and start-up companies.

Prof. Susan Margulies visited my laboratory at the Department of Biomedical Engineering in the Faculty of Engineering of Tel Aviv University in the week of March 15<sup>th</sup> 2015. During her visit, Prof. Margulies gave two well-attended, excellent lectures, the first one took place in the Sackler Faculty of Medicine, and was hosted by the Department of Cell and Developmental Biology, on the topic "*When Stretch Happens: Mitigating Ventilator Induced Lung Injury*". The second talk was hosted by my own department, the Department of Biomedical Engineering at the Iby and Aladar Fleischman Faculty of Engineering, and was entitled: "*A Large Animal Model of Pediatric Traumatic Brain Injury*". In addition, Prof. Margulies met with several faculty members at Tel Aviv University, and have advised several of my graduate students in regard to their research projects. We further discussed research plans and opportunities for submission of grant applications together.

The support of the Mortimer and Raymond Sackler Institute of Advanced Studies in hosting Prof. Margulies is greatly appreciated; her visit was extremely successful in all aspects, and enjoyable, and the audience in her two talks, as well as my graduate students, have certainly learned a lot.

Yours sincerely,

Amit Gefen, PhD

Professor in Biomedical Engineering



**PROFESSOR STEVEN FRAADE**



*Mortimer and Raymond Sackler  
Institute of Advanced Studies*

The Cymbalista Jewish Heritage Center

TEL-AVIV UNIVERSITY

המכון ללימודים מתקדמים  
ע"ש מורטימר וריימונד סאקלר

המרכז למורשת היהדות ע"ש צימבליסטה



אוניברסיטת תל-אביב

**Professor Steven Fraade  
Professor of the History of Judaism  
Department of Religious Studies  
Chair, Program in Judaic Studies  
Yale University  
New Haven, CT, U.S.A.**

**פרופסור סטיבן פראד  
פרופסור להיסטוריה של היהדות  
המחלקה למדע הדתות  
ראש התכנית ללימודי היהדות  
אוניברסיטת ייל  
ניו הייבן, ארה"ב**

*Lecture*

*הרצאה*

**"The Torah Inscribed/Transcribed in Seventy Languages"**

The lecture will be held on Wednesday,  
25 March 2015, at 18:00, at  
The Cymbalista Jewish Heritage Center,  
Tel-Aviv University, Ramat-Aviv.

ההרצאה תתקיים ביום רביעי, ה' בניסן  
תשע"ה, 25 במרץ 2015, בשעה 18:00,  
במרכז למורשת היהדות ע"ש צימבליסטה,  
אוניברסיטת תל-אביב, רמת-אביב.

*Light refreshments will be served  
at 17:45 before the lecture*

*כיבוד קל יוגש לפני ההרצאה  
בשעה 17:45*

*Seminar*

*סמינר*

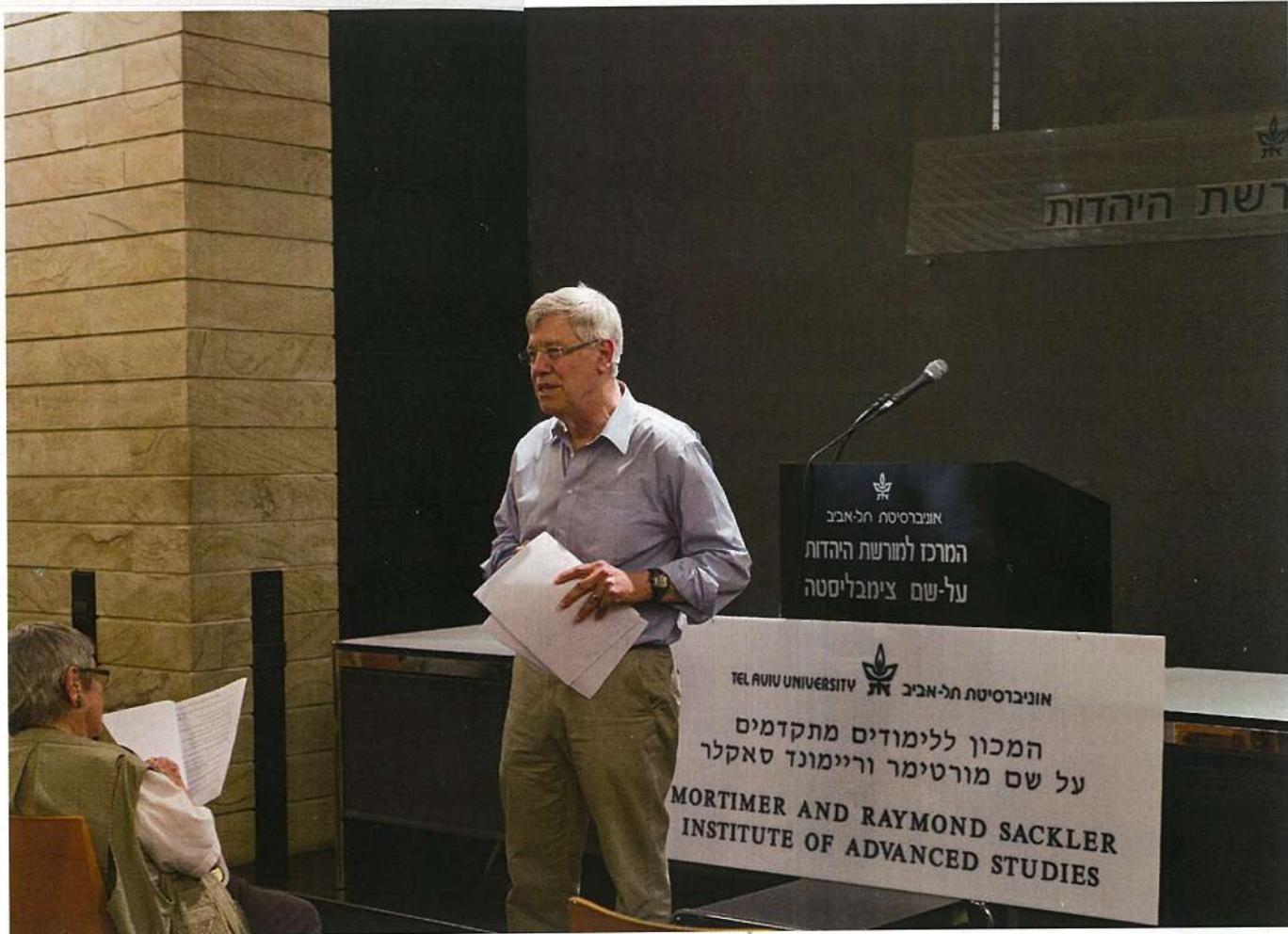
**" 'If a Case is Too Baffling for You to Decide...' (Deuteronomy 17: 8-13):  
Between Constraining and Expanding Judicial Autonomy in  
the Temple Scroll and Early Rabbinic Scriptural Interpretation"**

The lecture will be held on Tuesday,  
21 April 2015, at 18:00, in room 206,  
the Talmud Library, Rosenberg Building,  
Tel-Aviv University, Ramat-Aviv

הסמינר יתקיים ביום שלישי, 21 באפריל  
2015, בשעה 18:00, בחדר מס' 206  
הספרייה לתלמוד, בבניין רוזנברג,  
אוניברסיטת תל-אביב, רמת-אביב



Prof. Steven Fraade at one of his lectures



Prof. Ishay Rosen-Zvi attending one of Prof. Steven Fraade's lectures



# אוניברסיטת תל-אביב @ TEL AVIV UNIVERSITY

THE LESTER AND SALLY ENTIN FACULTY OF HUMANITIES  
DEPARTMENT OF HEBREW CULTURE STUDIES  
Hebrew language, Semitic Linguistics, Bible, Talmud and  
ancient  
Jewish Literature, Kabbalah and Hasidism, Jewish Philosophy

הפקולטה למדעי הרוח ע"ש לסטר וסאלי אנטין  
החוג ללימודי התרבות העברית  
הלשון העברית, בלשנות שמית, מקרא, תלמוד  
וטפרות העת העתיקה, קבלה וחסידות, פילוסופיה יהודית

August 12, 2015

## A Report on Prof Fraade's fellowship at the Sackler Institute for Advanced Studies, 2015

Prof. Steven Fraade's stay at TAU as a fellow at the Mortimer and Raymond Sackler Institute of Advanced Studies, following an invitation by Prof. Meira Polliack and Prof. Vered Noam, was a huge success. Prof. Fraade gave two formal presentations: the first was a public lecture at the Cymbalista Jewish Heritage Center on March 25<sup>th</sup> named "The Torah Inscribed in Seventy Languages." The second was a seminar for Graduate Students held on April 21<sup>st</sup> on the topic "Between Constraining and Expanding Judicial Autonomy in the Temple Scroll and Early Rabbinic Scriptural Interpretation." 25 Graduate students from TAU as well as from other universities participated and there was a lively discussion on issues of textual analysis as well as methodology. The Students' responses were of enthusiasm and excitement.

Prof. Fraade attended daily his office at the Rozenberg Building where he met, officially and unofficially, with both students and faculty. Many faculty members of the Hebrew Culture Studies Department, including the two undersigned as well as Prof. Polliack and others, met him for regular working meetings. He also attended habitually the scholars' seminar held in the Bible Section and led by Dr. Noam Mizrahi.

We are grateful to the Mortimer and Raymond Sackler Institute of Advanced Studies for the hospitality and hope to bring many more leading scholars in our field to TAU campus, for the benefit of both students and scholars.

Sincerely Yours,

Prof. Vered Noam and Prof. Ishay Rosen-Zvi



## Ronit Nevo

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**From:** Fraade, Steven <steven.fraade@yale.edu>  
**Sent:** 23:21 2015 מאי 20 יום רביעי  
**To:** Prof. Marek Karliner  
**Cc:** Ronit Nevo; Ruth Tytunovich  
**Subject:** Thank you again

Dear Prof. Karliner,

Now that I've had a chance to settle back into Yale and New Haven, I would like to thank you and the Sackler Institute at Tel Aviv University for a most enjoyable and productive period of fellowship from February through April of this year. The conditions and facilities, both on campus and off, were outstanding. In particular, the assistance that I received from Ms. Ronit Nevo of the Institute and from Ms. Ruti Tytunovick of the Department for the Study of Hebrew Culture was superb. They were always ready to respond to my needs and to assist with my *klita*. My interactions with both faculty and students, in both formal and informal settings, provided me with great pleasure and stimulation. And, last but not least, I greatly enjoyed getting to know you a bit over lunch, for which I am most appreciative.

I hope to be able to return at some point and in some capacity to Tel Aviv University. But in the mean time, my fond memories of the ten weeks that I spent there most recently will remind me of a very special time for years to come.

Needless to say, if I can be of any service to the Sackler Institute (as an informal ambassador of sorts), please do not hesitate to let me know.

Best wishes,

Steven

PS: I will be spending the month of June at the Israel Institute for Advanced Studies at the Hebrew University in Jerusalem, so my having finally gotten settled in New Haven will not last for long.

---

Steven D. Fraade  
Mark Taper Professor of the History of Judaism  
Department of Religious Studies  
Chair, Program in Judaic Studies  
Yale University

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<http://pantheon.yale.edu/~frasted>

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**PROFESSOR FEDERICO CAPASSO**



*Mortimer and Raymond Sackler  
Institute of Advanced Studies*

TEL AVIV UNIVERSITY

המכון ללימודים מתקדמים  
ע"ש מורטימר וריימונד סאקלר



אוניברסיטת תל-אביב

**Professor Federico Capasso**  
**R. L. W. Prof. of Applied Physics**  
**School of Engineering**  
**and Applied Sciences**  
**Harvard University**  
**Cambridge, MA, USA**

פרופסור פדריקו קאפאסו  
פרופ' לפיסיקה יישומית  
ביה"ס להנדסה ולמדעים יישומיים  
אוניברסיטת הרווארד  
קיימברידג', מסצ'וסטס, ארה"ב

*Lecture*

הרצאה

**"PHYSICS AND APPLICATIONS OF METASURFACES  
FOR WAVEFRONT AND WAVEGUIDING CONTROL"**

The lecture will be held on Monday,  
18 May 2015, at 11:00, in Room 011,  
Classroom Building,  
Faculty of Engineering  
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום שני,  
18 במאי 2015, בשעה 11:00,  
בחדר 011, בניין כיתות,  
הפקולטה להנדסה,  
אוניברסיטת תל-אביב, רמת-אביב

*Lecture*

הרצאה

**"THE SCIENCE AND TECHNOLOGY OF QUANTUM CASCADE  
LASERS: FROM QUANTUM ENGINEERING  
TO THE INTERNET OF EVERYTHING"**

The lecture will be held on Wednesday,  
20 May 2015, at 11:00, in Room 011,  
Classroom Building,  
Faculty of Engineering  
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום רביעי,  
20 במאי 2015, בשעה 11:00,  
בחדר 011, בניין כיתות,  
הפקולטה להנדסה,  
אוניברסיטת תל-אביב, רמת-אביב

*Light refreshments will be served  
at 10:30 before each lecture*

כיבוד קל יוגש לפני כל ההרצאה  
בשעה 10:30





Prof. Federico Capasso at one of his lectures



June 4, 2015

Ms. Ronit Nevo,

The Mortimer and Raymond Sackler Institute of Advanced Studies

**Prof. Federico Capasso – Scientific Report**

Prof. Federico Capasso, the R. L. W. Professor of Applied Physics at the School of Engineering and Applied Sciences, Harvard University (USA), visited Israel from May 17 till May 22, 2015. During this visit he gave 2 lectures in the framework of the Sackler Institute. On May 18, he gave a talk on:

PHYSICS AND APPLICATIONS OF METASURFACES FOR WAVEFRONT AND WAVEGUIDING CONTROL.

And on May 20 he gave a talk on:

THE SCIENCE AND TECHNOLOGY OF QUANTUM CASCADE LASERS: FROM QUANTUM ENGINEERING TO THE INTERNET OF EVERYTHING.

Both talks raised a lot of interest and were attended by many faculty members and graduate students from Tel-Aviv University, as well as by several guests. We estimate that approximately 70 people attended each talk.

In addition to that, Prof. Capasso had an intensive series of meetings and lab visits in Tel-Aviv University. He met with me and with Prof. Koby Scheuer, Dr. Tal Ellenbogen and Dr. Pavel Ginzburg from the School of Electrical Engineering and with Dr. Haim Suchowski from the School of Physics. Prof. Capasso also had fruitful discussions with Prof. Avraham Katzir (Physics, TAU) and Dr. Ehud Galun (Mafat, Ministry of Defense) on a joint project related to the application of quantum cascade lasers and silver halide fibers for infrared spectroscopy and sensing. We are expecting some future collaborations following this visit. Specifically, Dr. Suchowski was already invited to deliver a talk in Prof. Capasso's group this summer.

Yours Sincerely,



Prof. Ady Arie, Head

School of Electrical Engineering



**PROFESSOR ALEX MESOUDI**



Mortimer and Raymond Sackler  
Institute of Advanced Studies

Unit of Culture Research

TEL AVIV UNIVERSITY



המכון ללימודים מתקדמים  
ע"ש מורטימר וריימונד סאקלר

היחידה למחקר התרבות

אוניברסיטת תל-אביב

**Alex Mesoudi**  
**Reader in Anthropology**  
**Department of Anthropology**  
**Centre for the Coevolution**  
**of Biology and Culture**  
**Durham University**  
**Durham, UK**

**אלכס מסעודי**  
**פרופסור לאנתרופולוגיה**  
**המחלקה לאנתרופולוגיה**  
**המרכז לאבולוציה משותפת של**  
**הביולוגיה והתרבות**  
**אוניברסיטת דראם**  
**דראם, בריטניה**

*Lecture followed by round Table*

הרצאה ולאחריה דיון

**"TOWARDS A SCIENCE OF CULTURE  
WITHIN A DARWINIAN EVOLUTIONARY FRAMEWORK"**

The lecture will be held on Tuesday,  
2 June 2015, at 16:00, in Hall 01,  
Rosenberg Building,  
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום שלישי,  
2 ביוני 2015, בשעה 16:00,  
באולם 01, בניין רוזנברג,  
אוניברסיטת תל-אביב, רמת-אביב

***Round Table:***

*Moderator: Itamar Even-Zohar;  
Amotz Zahavi, Eva Jablonka,  
Arie Altman, Arnon Lotem*

**דיון:**  
**יו"ר: איתמר אבן זהר;**  
**אמוץ זהבי, חוה יבלונקה,**  
**אריה אלטמן וארנון לוטם**

*Light refreshments will be served  
at 15:45 before the lecture*

**כיבוד קל יוגש לפני ההרצאה**  
**בשעה 15:45**





Prof. Alex Mesoudi at his lecture



Tel Aviv University  
Faculty of Humanities  
Shirley and Leslie Porter School of  
Cultural Studies  
Unit of Culture Research  
Professor Itamar Even-Zohar



אוניברסיטת תל-אביב  
הפקולטה למדעי הרוח  
בית הספר למדעי התרבות  
ע"ש שירלי ולזלי פורטר  
היחידה למחקר התרבות  
פרופ' איתמר אבן-זהר

#### Report On Prof. Alex Mesoudi's Visit

July 1<sup>st</sup>, 2015

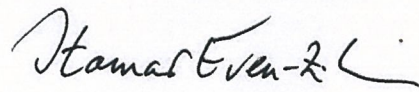
Alex Mesoudi, one of the leading researchers in cultural evolution, a cutting-edge area of research that combines biology, anthropology, psychology, and more to create a new science of culture, stayed in Israel between June 1 and 12th as a guest of the Sackler Institute of Advanced Studies and the Unit of Culture Research. He gave a talk under the title "Towards a Science of Culture within a Darwinian Evolutionary Framework" at a colloquium organized on June 2 by the Unit, dedicated to new advancements in cultural evolution from the point of view of various disciplines. His talk was commented by several prominent Tel Aviv University scholars: Amotz Zahavi and Arnon Lotem from the Zoology Department, Eva Jablonka from the Cohen Institute for the history of science and ideas, Arie Altman from the Hebrew University faculty of agriculture, currently also faculty member at the Unit of Culture Research at Tel Aviv. The colloquium was chaired by Itamar Even-Zohar, Alex Mesoudi's main host from the Unit of Culture Research. The colloquium was attended by some 90 faculty and advanced students from various departments. It was fully recorded and can be accessed on YouTube ([https://www.youtube.com/playlist?list=PLNiWLB\\_wsOg5B\\_iZycE-PInpEbAq7sB6D](https://www.youtube.com/playlist?list=PLNiWLB_wsOg5B_iZycE-PInpEbAq7sB6D)).

The colloquium was followed by a series of meetings and talks with faculty and students. On June 4, Prof. Mesoudi met with the Cohen Institute group led by Eva Jablonka and Snait Gissis; on June 8 he gave another talk at the Advanced Seminar in Culture Research With Dr. Yifat Gutman & Students; on June 9 he went with Prof. Arie Altman to Jerusalem where he met with five members of the Anthropology Department at the Hebrew University. On June 11 he participated in The TAU PhD Student Study Group on Emotion Research (Interdisciplinary Workshop on Emotions), organized by Mr. Rotem Leshem, a PhD student at the Unit of Culture Research, where he had the chance of meeting with students and other faculty, most notably with Prof. Christian von Scheve from the Free University of Berlin.

In addition to these public meetings and talks, since this was Prof. Mesoudi's first visit to Israel we considered it our obligation to show him a bit around. He went together with Itamar Even-Zohar on one day tours to the Golan Heights, Caesarea and the Negev, and with Arie Altman to Jerusalem. This has made it possible to carry out extensive discussions on the various possible advancement options for the science of culture and future cooperation.



Summing up, Mesoudi's visit has been most fruitful scientifically, and certainly has also contributed to making Tel Aviv University a potential place of meeting for the avant-garde group of cultural evolution. Prof. Mesoudi will be moving to the University of Exeter's Human Biological and Cultural Evolution Group during the month of July. We truly hope that this will enhance our contacts. Prof. Mesoudi has distinctly expressed his interest in returning to Tel Aviv.



Itamar Even-Zohar, PhD  
Emeritus professor, Semiotics and Culture Research (active; volunteering)  
Studies Advisor, Unit of Culture Research  
Coordinator, The Culture Research Lab