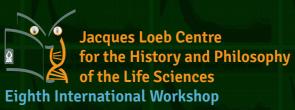
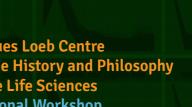
The Jacques Loeb Centre for the History and Philosophy of the Life Sciences was inaugurated in March 2008. It supports advanced research covering topics related to the life sciences. The Centre pursues a broad range of investigations into the history and philosophy of modern research. It organizes national and international conferences aimed at an interdisciplinary exchange between scientists and commentators on science, such as historians and philosophers of science. The proceedings of its annual international workshops have been published as special editions of leading scientific and historical journals.

The Centre offers post-doctoral and graduate fellowships or positions for exchange students and other qualified individuals in the history and philosophy of the modern life sciences.

Particular attention is given to historical and philosophical research in the following areas:

- Developmental genetics, genomics, molecular cell biology, and neurobiology.
- Physico-chemical research into the structure and function of proteins.
- Phylogeny and evolutionary biology.
- Collaboration in the life sciences between Israel and Germany.
- Molecular understanding of disease processes, such as cancer.
- Ethical and legal implications of recent research on genes and genomes.







November 30 – December 2, 2015

Edgar de Picciotto Family National Institute for Biotechnology in the Negev Building (Bldg. 41) **BGU Marcus Family Campus**





For further information and updates, please visit: http://bit.ly/17D000L or contact: jloebcentre@post.bgu.ac.il

אוניברסיטת בן-גוריון בנגב

Ben-Gurion University of the Negev

Abstracts can be viewed at http://bit.ly/1XeWlLx







Monday, November 30

9:15-10:15 a.m.

Registration and Refreshments

10:15–10:45 a.m. Greetings:

Prof. Jiwchar Ganor, Dean, Faculty of Natural Sciences, Ben-Gurion University of the Negev

Prof. Jerry Eichler, Chairman, Department of Life Sciences, Ben-Gurion University of the Negev

Prof. Ute Deichmann, Director, Jacques Loeb Centre for the History and Philosophy of the Life Sciences, Ben-Gurion University of the Negev

10:45 a.m. – 1:00 p.m.

I. Genomic Causality in

Development

Long-Range Regulation During
Development and Evolution: Back to
Preformation?

Denis Duboule, University of Geneva, Switzerland

Quantitative Biology of Developmental Abnormalities

Stas Shvartsman, Princeton University, U.S.A.

Functional Characterization of Gene Regulatory Elements of Epilepsy-Associated Genes

Ramon Birnbaum, Ben-Gurion University of the Negev, Israel

1:00-2:00 p.m. Lunch Break

2:00-3:00 p.m.

II. Cells and Genomes – Synthesis and Function (I)

Building a Minimal Bacterial Cell by Global Design and Synthesis John Glass, Craig Venter Institute, U.S.A.

3:00-3:30 p.m. Coffee Break



3:30-5:45 p.m. Cells and Genomes – Synthesis and Function (II)

Intrinsic and Collective Cellular Function: Lessons from Single Cell Transcriptional Analysis and Epigenomics

Amos Tanay, Weizmann Institute, Israel

3D Genome Regulation in Cell Differentiation and Response to Hormones

Ofir Hakim, Bar-Ilan University, Israel

The Complexity of Mitochondrial DNA Regulation: Modulating the Once and Future Endosymbiont

Dan Mishmar, Ben-Gurion University of the Negev, Israel

6:00-8:30 p.m.
Reception, Musical Interlude, and Dinner
(for invited speakers and guests)

Tuesday, December 1

9:15-11:00 a.m.

III. Session in Memory of Eric Davidson

Speakers:

Ellen Rothenberg
Douglas Erwin
Michel Morange
Ute Deichmann
Smadar Ben-Tabou de Leon

11:00–11:30 a.m. Coffee Break

11:30 a.m. – 1:00 p.m.

IV. The Regulatory Genome and Evolution (I)

The Construction of Evolutionary Opportunity through Gene Regulation

Douglas Erwin, Smithsonian National Museum of Natural History, U.S.A.

Paleo-epigenetics: Reconstructing Gene Regulation in Archaic Humans Liran Carmel, The Hebrew University of Jerusalem, Israel

1:00-2:00 p.m. Lunch Break 2:00-3:30 p.m.

The Regulatory Genome and Evolution (II)

A Trade-off Between Constraints on Embryo Geometry and Regulatory Genome Evolution

Patrick Lemaire, Centre de Recherche de Biochimie Macromoléculaire, France

Genomic Spaces of the Possible and the Origins of Adaptations

Andreas Wagner University of

Andreas Wagner, University of Zurich, Switzerland

3:30-4:00 p.m. Coffee Break

4:00-5:30 p.m.
V. Ethics and Genomics

Ethical and Political Findings of Whole-Genome Sequencing Anna Zielinska, Ben-Gurion University of the Negev, Israel

Human Germ Line Editing: A Historical Perspective

Michel Morange, École Normale Supérieure, France 7:15 p.m.

Dinner and Evening Lecture (for invited speakers and guests)

Wednesday, December 2

9:15-11:15 a.m.

VI. Genome Annotation

The Role of Genome Annotation

Howard Cedar, The Hebrew

University of Jerusalem, Israel

Marking Developmental History on the Genome in Immune Cells

Ellen Rothenberg, California Institute of Technology, U.S.A.

11:15-11.45 a.m. Coffee Break

11:45 a.m. - 12:30 p.m.

Immunogenetics and Immune History
of Previous Infections

Tomer Hertz, Ben-Gurion University of the Negev, Israel

12:30-1:00 p.m.

VII. Roundtable Discussion

Chair: Michel Morange

1:00 p.m. Lunch (for invited speakers and guests)