Transformations of Lamarckism: 200 Years to the *Philosophie Zoologique*
Transformations of Lamarckism: 200 Years to the Philosophie Zoologique

The Twenty-Third Annual International Workshop on the History and Philosophy of Science

Sunday-Wednesday, June 7-10, 2009

Tel Aviv University and The Van Leer Jerusalem Institute
Greetings and opening lecture

Chair: Noah Efron (Bar-Ilan University)
Eva Jablonka and Snait Gissis (Tel Aviv University)
Ehud Gazit, Vice President for Development and Research, Tel Aviv University
Gabriel Motzkin, Director, The Van Leer Jerusalem Institute
A research programme for Lamarckism at the beginning of the 21st century

10:30–11:00 Coffee break

Historical Sessions I-V

Chair: David Wool (Tel Aviv University)
Pietro Corsi (Oxford University):
Early views of Lamarck, 1800-1830
Richard Burkhardt (University of Illinois):
Lamarck, Frédéric Cuvier, and Darwin on animal behavior and the inheritance of acquired characters

12:30–13:00 Coffee break

Chair: Ohad Nachtomy (Bar-Ilan University)
Sander Gliboff (Indiana University):
The golden age of Lamarckism, 1866–1926
Charlotte Weissman (Tel Aviv University):
Germinal selection: a Weismannian solution to Lamarckian problematics

14:30–15:30 Lunch break

Chair: Iris Fry (Technion, Institute for Technology)
Laurent Loison (University of Nantes):
The notions of plasticity and heredity among French Neo-Lamarckists (1879-1934), from complementarity to incompatibility
Snait Gissis (Tel Aviv University):
Lamarckism and the constitution of Sociology
Nils Roll-Hansen (University of Oslo):
Neo-Lamarckism as a factor in the Lysenko affair
Monday June 8, at Tel Aviv University

10:00–11:30

Chair: Oren Harman (Bar-Ilan University)
Elena Aronova (University of California, San Diego):
Is really the only good bug a dead bug? Entomology, acclimatization, and experimental Lamarckism in Russia
Arkady Markel (Novosibirsk State University):
Behavior, stress and evolution: (in light of selection experiments carried out in Novosibirsk) - A. L. Markel and L. N. Trut

11:30–12:00 Coffee break

12:00–13:45

Chair: Alfred Tauber (Boston University)
Adam Wilkins (Cambridge University)/ Scott Gilbert (Swathmore College):
The modern synthesis in the USA and the exclusion of soft inheritance
Marion J. Lamb (Independent Scholar, UK):
Attitudes to soft inheritance in Britain, 1930s-1970s

13:45–14:45 Lunch break

The Batsheva Workshop on the current status of soft inheritance in biology (sessions VI-XI)

14:45–16:15

Chair: Joseph Neumann (Tel Aviv University)
Sonia Sultan (Wesleyan University):
Evolutionary implications of individual plasticity
Scott Gilbert (Swathmore College):
Developmental symbiosis: co-development, variation, and natural selection

16:15–16:30 Coffee break

16:30–18:00

Chair: Nurit Kirsh (Ben-Gurion University of the Negev)
Jan Sapp (York University, Canada):
Thinking laterally on the tree of life
Eva Jablonka (Tel Aviv University):
Epigenetic inheritance since the 1990's: the challenge of soft inheritance

18:00–19:00

Anna Zeligowski, artist, guided tour of the art exhibition “Webs of Life”
Chair: Nadav Davidovitch (Ben-Gurion University of the Negev)
Minoo Rassoulzadegan (University of Nice):
RNA-mediated ‘flexible heredity’ of epigenetic variation: from a white-tipped tail to familial diseases

Peter Gluckman (University of Auckland):
Maternal and transgenerational epigenetic effects in human health

9:30–11:00

11:00–11:15 Coffee break

Chair: Raphael Falk (The Hebrew University of Jerusalem)
Konstantin Anokhin, Inna Shamakina (Institute of Normal Physiology, Moscow):
Lamarck’s perspective on evolution of adaptive behavior: agenda for future research

Eran Shifferman (Tel Aviv University):
The roads all taken: a system approach to the study of the evolution of quantity estimation in the animal kingdom

11:15–12:45

12:45–13:15 Coffee break

Chair: Joseph Heller (The Hebrew University of Jerusalem)
Moshe Feldman (Weizmann Institute):
Instantaneous genetic and epigenetic alterations in the wheat genome caused by polyploidization

Marcello Buiatti (University of Firenze):
Plants: individuals or epigenetic cell populations?

13:15–14:45

14:45–15:45 Lunch break

Chair: Luisa Hirschbein (Institut Curie UMR 168 CNRS)
Nathalie Balaban (The Hebrew University of Jerusalem):
Bacterial variability at the single cell level

Erez Braun (Technion, Institute for Technology):
Environmentally induced and stably inherited cellular adaptation to unforeseen challenge.

15:45–17:15
Wednesday June 10, at The Van Leer Jerusalem Institute

Theoretical - Philosophical Sessions XII-XIII

Chair: Yemima Ben-Menahem (The Hebrew University of Jerusalem)

Ohad Parnes (ZfL, Berlin and CEU, Budapest):
Between the innate and the acquired: the long and complicated liaison between immunology and Lamarckism

Ayelet Shavit (Tel-Hai College):
Mind the gaps: why niche construction processes are so rarely examined?

James Griesemer (University of California, Davis):
Heuristic reductionism and the relative significance of epigenetic inheritance in evolution

11:45–12:15 Coffee break

Chair: Leo Corry (Tel Aviv University)

Evelyn Fox Keller (MIT):
Self-organization, self-assembly, and the inherent activity of matter

Ehud Lamm (Tel Aviv University):
The meta-stable genome - a Lamarckian organ in a Darwinian world

Paul Griffiths (University of Sydney):
Can nature become plastic?

12:15–14:30 Lunch break

FUTURE PERSPECTIVES: Round Table and General Discussion

Chair: Everett Mendelsohn (Harvard University)

Summing up:

Raphael Falk (The Hebrew University of Jerusalem):
Evolution as progressing complexity

Dov Por (The Hebrew University of Jerusalem):
Lamarck’s ‘Force de la Nature’ demystified; a third view of evolution

Luisa Hirschbein (Institut Curie UMR 168 CNRS):
Prokaryotic epigenetic inheritance

Simona Ginsburg (Open University, Israel):
Lamarck on the nervous system: past insights and future perspectives

Adam Wilkins (Cambridge University):
The ‘inheritance of acquired traits’ in the light of 21st century genetic/molecular knowledge: a geneticist’s view

General Discussion
The workshop is accompanied by an Art Exhibition **Webs of Life** by the artist

**Anna Zeligowski**

who explores the expressions of evolution and development in everyday life and in science.

The Sourasky Library Hall, Tel Aviv University
June 4-24, 2009: Sunday-Thursday, 9:00-19:00, Friday 9:00-12:00

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**Venues:**

**Tel Aviv University**
Gilman Building, Hall 496
Tel. 03-6409198
www.tau.ac.il/humanities/cohn

**The Van Leer Jerusalem Institute**
43, Jabotinsky St., Jerusalem
Tel. 02-5605222
www.vanleer.org.il
Parking is not available at the Van Leer Jerusalem Institute.
Free parking on Chopin St., next to the Jerusalem Theatre.

**Admission is free**