

1. Record Nr.	UNINA9910461064603321
Titolo	Transformations of Lamarckism [[electronic resource]] : from subtle fluids to molecular biology / / edited by Snait B. Gissis and Eva Jablonka ; with illustrations by Anna Zeligowski
Pubbl/distr/stampa	Cambridge, Mass., : MIT Press, c2011
ISBN	1-283-14811-0 9786613148117 0-262-29564-4
Descrizione fisica	1 online resource (474 p.)
Collana	Vienna series in theoretical biology
Altri autori (Persone)	GissisSnait <1945-> JablonkaEva ZeligowskiAnna
Disciplina	576.8/27
Soggetti	Evolution (Biology) - History Natural selection Adaptation (Biology) Evolutionary genetics Evolution (Biology) - Philosophy - History Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Lamarck, Darwin, and the contemporary debate about levels of selection / Gabriel Motzkin -- Jean-Baptiste Lamarck : from myth to history / Pietro Corsi -- Lamarckian problematics in historical perspective / Snait B. Gissis -- Lamarck, Cuvier, and Darwin on animal behavior and acquired characters / Richard W. Burkhardt Jr. -- The golden age of Lamarckism, 1866-1926 / Sander Gliboff -- Germinal selection : a Weismannian solution to Lamarckian problematics / Charlotte Weissman -- The notions of plasticity and heredity among French neo-Lamarckians (1880-1940) : from complementarity to incompatibility / Laurent Loison -- Lamarckism and Lysenkoism revisited / Nils Roll-Hansen -- Lamarckism and the constitution of sociology / Snait B. Gissis -- The exclusion of soft ("Lamarckian")

inheritance from the modern synthesis / Snait B. Gissis and Eva Jablonka -- Attitudes to soft inheritance in Great Britain, 1930s-1970s / Marion J. Lamb -- The decline of soft inheritance / Scott Gilbert -- Why did the modern synthesis give short shrift to "soft inheritance"? / Adam Wilkins -- The modern synthesis : discussion -- Lamarckian problematics in biology / Eva Jablonka -- Lamarck's dangerous idea / Stuart A. Newman and Ramray Bhat -- Behavior, stress, and evolution in light of the Novosibirsk selection experiments / Arkady L. Markel and Lyudmila N. Trut -- The role of cellular plasticity in the evolution of regulatory novelty / Erez Braun and Lior David -- Evolutionary implications of individual plasticity / Sonia E. Sultan -- Epigenetic variability in a predator-prey system / Sivan Pearl, Amos Oppenheim, and Nathalie Q. Balaban -- Cellular epigenetic inheritance in the twenty-first century / Eva Jablonka -- An evolutionary role for RNA-mediated epigenetic variation? / Minoo Rassoulzadegan -- Maternal and transgenerational influences on human health / Peter D. Gluckman, Mark A. Hanson, and Tatjana Buklijas -- Plants : individuals or epigenetic cell populations? / Marcello Buiatti -- Instantaneous genetic and epigenetic alterations in the wheat genome caused by allopolyploidization / Moshe Feldman and Avraham A. Levy -- Lamarckian leaps in the microbial world / Jan Sapp -- Symbionts as an epigenetic source of heritable variation / Scott F. Gilbert -- Lamarckian problematics in the philosophy of biology / Snait B. Gissis and Eva Jablonka -- Mind the gaps : why are niche construction models so rarely used? / Ayelet Shayit and James Griesemer -- Our plastic nature / Paul Griffiths -- The relative significance of epigenetic inheritance in evolution : some philosophical considerations / James Griesemer -- The metastable genome : a Lamarckian organ in a Darwinian world? / Ehud Lamm -- Self-organization, self-assembly, and the inherent activity of matter / Evelyn F. Keller -- Ramifications and future directions / Snait B. Gissis and Eva Jablonka -- Lamarck on the nervous system : past insights and future perspectives / Simona Ginsburg -- Lamarck's "Pouvoir de la nature" demystified : a thermodynamic foundation to Lamarck's concept of progressive evolution / Francis Dov Por -- Prokaryotic epigenetic inheritance and its role in evolutionary genetics / Luisa Hirschbein -- Evolution as progressing complexity / Raphael Falk -- Epigenetics and the "new biology" : enlisting in the assault on reductionism / Alfred I. Tauber -- Epigenetic inheritance : where does the field stand today? : what do we still need to know? / Adam Wilkins -- Final discussion -- Appendix A. Mandelstam's poem "Lamarck" -- Appendix B. Mechanisms of cell heredity.

Sommario/riassunto

This title shows the advantages of a Lamarckian perspective on evolution. Indeed the development-oriented approach it presents is becoming central to current evolutionary studies.