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Titolo	Transformations of Lamarckism : From Subtle Fluids to Molecular Biology / / edited by Snait B. Gissis and Eva Jablonka ; with illustrations by Anna Zeligowski
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Collana	Vienna series in theoretical biology
Altri autori (Persone)	GissisSnait <1945-> JablonkaEva
Disciplina	576.8/27
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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.
