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Titolo	Genesis [[electronic resource]] : the evolution of biology // Jan Sapp
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Descrizione fisica	1 online resource (385 p.)
Disciplina	570
Soggetti	Biology - History Evolution (Biology) - History Genetics - History
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 (p. 273-345).
Nota di contenuto	Contents; PART I: EVOLUTION AND MORPHOLOGY; 1. Evolution and Revolution; Two Worldviews; Revolution to Evolution; Lamarckian Myths; Simple to Complex; Disconnecting the Unity of Life; The Cuvier-Geoffroy Debate; 2. The Origin; When Making Other Plans; Darwin's Bible; The Beagle Voyage; Natural Selection and Natural Theology; Wallace's Manuscript; Concepts of The Origin; 3. Darwin's Champions; Man's Place in Nature; Natural Theology and Agnosticism; Archetype and Idealism; Ontogeny and Phylogeny; Materialism for Mysticism; 4. Darwinism and Sociopolitical Thought; Laissez-faire Social Darwinism Exported War and Racism; Darwinism on the Left; Was Darwin a Social Darwinist?; Social Theory in Evolution; The Division of Labor; Darwin and Malthus; 5. Mutualism; Anarchism; Between Individuals; Between Species; Roots in Natural Theology; 6. Dissent from Darwin; Is the Earth Old Enough?; Blending Inheritance; What Is a Species?; Speciation and Isolation; Is Everything Adapted?; Holes in the Record; Neo-Lamarckism; Orthogenesis; Saltationism; PART II: THE CELL IN DEVELOPMENT AND HEREDITY; 7. The Myth of the Cell Theory;

An Historical Paradox; Cells from Cells

More than Meets the Eye; Vitalism, Materialism, and Spontaneous Generation; 8. The Body Politic; The Cell State; The Dawn of Protistology; A Cell Is Not a Cell; What's in a Word; Organisms within Organisms; Weismannism; 9. Evolving Embryology; Technical Virtuosity; The Organism as a Whole; Epigenesis and Preformation; 10. The Egg; The Body Plan in the Egg; Maternal Inheritance; Cellular Differentiation; Cytoplasmic Evolution; PART III: GENETICS AND THE CLASSICAL SYNTHESIS; 11. Mendel Palimpsest; Mendel's Laws; Neglect and Rediscovery; Making a Discoverer; Why Multiple Meanings? Geneticists versus Statisticians; Mendel Made Darwinian; Is the Scientific Paper Fiction?; 12. Emerging Genetics; The Field of Heredity; Genotype and Phenotype; Disciplinary Design; Biology out of Balance; Are Genes Real?; 13. Darwinian Renaissance; Merging Mendelism; The Importance of Sex; Population Genetics; Random Drift and Nonadaptive Change; The Species Problem; Microevolution as Macroevolution; Lessons of Synthesis; 14. Genes, Germs, and Enzymes; The Garrod Tale; Physiology and Genetics; Early Gene-Enzyme Associations; The One-Gene: One-Enzyme Hypothesis; Domesticating Microbes The Chosen Few; The Rockefeller Foundation; 15. Genetic Heresy and the Cold War; Non-Darwinian Development; Plasmon to Plasmagenes; The Inheritance of Acquired Characteristics; University Politics; Morgan's Smile; PART IV: MOLECULAR BIOLOGY AND ORGANISMIC COMPLEXITY; 16. Conceiving a Master Molecule; DNA or Protein?; Transformation and Transduction; Chromatography; X-Ray Crystallography; Digital DNA; Transcription and Translation; Turning Genes On and Off; Classical Doctrines of Molecular Biology; 17. Beyond the Genome; Complexity and the Human Genome; A Genetic Plan?; Confronting Old Dogmas Cell Architecture and Spatial Information

Sommario/riassunto

What is evolution? What is a gene? How did these concepts originate and how did they develop? This book is a short history ranging from Lamarck and Darwin to DNA and the Human Genome Project, exploring the conceptual oppositions, techniques institutional conditions and controversies that have shaped the development of biology.

2. Record Nr.	UNINA9910145206403321
Titolo	International journal of educational development
Pubbl/distr/stampa	[Oxford] ; ; [New York], : [Pergamon], 1981-
ISSN	1873-4871
Soggetti	Education Education - Periodiques Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Title from contents screen (ScienceDirect, viewed Mar. 16, 2007). Some issues also have distinctive titles.
Sommario/riassunto	"It is the purpose of the International Journal of educational development to bring these developments to the attention of professionals in the field of education, with particular focus upon issues and problems of concern to those in the Third World. Concrete information, of interest to planners, practitioners and researchers, is presented in the form of articles, case studies and research reports."