

1. Record Nr.	UNINA9910790185303321
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Titolo	Embryos in deep time : the rock record of biological development // Marcelo R. Sanchez
Pubbl/distr/stampa	Berkeley, : University of California Press, c2012
ISBN	1-280-11673-0 9786613521026 0-520-95230-8
Descrizione fisica	1 online resource (272 pages)
Classificazione	WH 9200
Disciplina	560
Soggetti	Paleobiology Vertebrates, Fossil - Embryos Embryos Developmental genetics Ontogeny Developmental biology Evolution (Biology) Comparative embryology
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	Frontmatter -- Contents -- Acknowledgments -- Prologue -- 1. Fossils, Ontogeny, and Phylogeny -- 2. Evo-Devo, Plasticity, and Modules -- 3. Fossilized Vertebrate Ontogenies -- 4. Bones and Teeth under the Microscope -- 5. Proportions, Growth, and Taxonomy -- 6. Growth and Diversification Patterns -- 7. Fossils and Developmental Genetics -- 8. "Missing Links" and the Evolution of Development -- 9. Mammalian and Human Development -- 10. On Trilobites, Shells, and Bugs -- Epilogue: Is There a Moral to Developmental Paleontology? -- Notes -- Bibliography -- Index
Sommario/riassunto	How can we bring together the study of genes, embryos and fossils? Embryos in Deep Time is a critical synthesis of the study of individual development in fossils. It brings together an up-to-date review of concepts from comparative anatomy, ecology and developmental

genetics, and examples of different kinds of animals from diverse geological epochs and geographic areas. Can fossil embryos demonstrate evolutionary changes in reproductive modes? How have changes in ocean chemistry in the past affected the development of marine organisms? What can the microstructure of fossil bone and teeth reveal about maturation time, longevity and changes in growth phases? This book addresses these and other issues and documents with numerous examples and illustrations how fossils provide evidence not only of adult anatomy but also of the life history of individuals at different growth stages. The central topic of Biology today-the transformations occurring during the life of an organism and the mechanisms behind them-is addressed in an integrative manner for extinct animals.

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2. Record Nr.	UNICAMPANIAVAN0265694
Titolo	Applied Mathematical Ecology / edited by Simon A. Levin, Thomas G. Hallam and Louis J. Gross
Pubbl/distr/stampa	Berlin, : Springer, 1989
Descrizione fisica	xiv, 491 p. ; 24 cm
Soggetti	92-XX - Biology and other natural sciences [MSC 2020] 92D25 - Population dynamics (general) [MSC 2020] 92D40 - Ecology [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

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