Record Nr. UNINA9910451230703321 Autore Thomson Keith Stewart Titolo Morphogenesis and evolution / / Keith Stewart Thomson New York, New York;; Oxford, [England]:,: Oxford University Press,, Pubbl/distr/stampa 1988 ©1988 **ISBN** 0-19-756005-9 1-280-44962-4 9786610449620 0-19-536427-9 Descrizione fisica 1 online resource (163 p.) Collana Oxford scholarship online Disciplina 574.1/7 Soggetti Morphogenesis Developmental biology **Evolution (Biology)** Electronic books. Lingua di pubblicazione Inglese Materiale a stampa **Formato** Livello bibliografico Monografia Previously issued in print: 1988. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Contents; 1. Introduction; 2. Theory, Reduction, and Hierarchy; 3. Development: Pattern and Process; 4. Early Pattern Formation; 5. Example: Early Pattern Formation in Amphibia; 6. Later Pattern Formation: Morphogenesis; 7. Some General Properties of Morphogenetic Systems; 8. Patterns of Evolution; 9. Morphogenesis and **Evolution: References: Index** Sommario/riassunto Today, developmental and evolutionary biologists are focusing renewed attention on the developmental process, specifically those genetic and cellular factors which influence variation in individual body shape or metabolism. They are attempting to understand better how evolutionary trends and patterns within individuals might be limited and controlled. In this important work, the author reviews the classical literature on embryology, morphogenesis and palaeontology, and presents recent genetic and molecular studies on development. The result is a unique perspective on a set of problems of fundamental importance to developmental and evolutionary biologists.