

1. Record Nr.	UNINA9910956259503321
Titolo	Comparative developmental physiology : contributions, tools, and trends / edited by Stephen J. Warburton [and others]
Pubbl/distr/stampa	New York : , : Oxford University Press, , 2023
ISBN	0-19-029067-6 0-19-770059-4 1-280-84089-7 9786610840892 0-19-803769-4 1-4294-0281-4
Edizione	[First edition.]
Descrizione fisica	1 online resource (236 pages)
Collana	Oxford scholarship online
Disciplina	571.8/1
Soggetti	Human growth Developmental biology Growth and Development - physiology Physiology, Comparative Evolution
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Formerly CIP. Previously issued in print: 2006.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; Contributors; Introduction; 1. Pulmonary Surfactant, Cell Culture, and Tissue Regeneration as Models for Understanding the Evolution of Developmental Physiology; 2. In Vivo and Functional Imaging in Developmental Physiology; 3. Models for Embryonic Respiration; 4. Physiology, Development, Genetics, and the Evolution of Phenotypic Plasticity: Studies with Butterfly Eyespots; 5. The Role of Developmental Plasticity in Comparative Physiology: Mechanism and Process; 6. The Physiological Basis for Metabolic Scaling in Animals: A Developing Perspective 7. Developmental Costs and the Partitioning of Metabolic Energy 8. Temperature-Induced Developmental Plasticity in Ectotherms; 9. Developmental Physiology: Its Importance for Environmental

Conservation and Biomedical Research; 10. Practical Applications Derived from Basic Developmental Studies; 11. Sciomics: Community/Model Organism-Based and Individualistic Research Strategies for Comparative Animal Developmental Physiology; 12. Complexity Change during Physiological Development; 13. A Physiological Approach to Heterochrony; Index

Sommario/riassunto

Presenting assessments of work in the field of developmental physiology - from experimental, theoretical, and molecular perspectives - this text examines the future directions this key area will take.