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Titolo	Phenotypic plasticity & evolution : causes, consequences, controversies / / edited by David W. Pfennig ; foreword by Mary Jane West-Eberhard
Pubbl/distr/stampa	CRC Press Boca Raton, FL : , : CRC Press, , 2021 ©2021
Descrizione fisica	1 online resource (xxxi, 404 pages) : digital file(s)
Collana	Evolutionary cell biology
Disciplina	576.53
Soggetti	Phenotypic plasticity Evolution (Biology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Section I. Plasticity and evolution: concepts, contexts, questions -- Section II. Causes of plasticity: from genes to ecology -- Section III. Consequences of plasticity: adaptation, origination, diversification -- Section IV. Plasticity and evolution: controversies and consensus
Sommario/riassunto	Phenotypic plasticity – the ability of an individual organism to alter its features in direct response to a change in its environment – is ubiquitous. Understanding how and why this phenomenon exists is crucial because it unites all levels of biological inquiry. This book brings together researchers who approach plasticity from diverse perspectives to explore new ideas and recent findings about the causes and consequences of plasticity. Contributors also discuss such controversial topics as how plasticity shapes ecological and evolutionary processes; whether specific plastic responses can be passed to offspring; and whether plasticity has left an important imprint on the history of life. Importantly, each chapter highlights key questions for future research. Drawing on numerous studies of plasticity in natural populations of plants and animals, this book aims to foster greater appreciation for this important, but frequently misunderstood phenomenon. Key Features Written in an accessible style with numerous illustrations, including many in color Reviews the

history of the study of plasticity, including Darwin's views. Most chapters conclude with recommendations for future research.
