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| 1. Record Nr.           | UNINA9910476831503321  |
| Titolo                  | Phenotypic plasticity & evolution : causes, consequences, controversies<br>// edited by David W. Pfennig ; foreword by Mary Jane West-Eberhard   |
| Pubbl/distr/stampa      | CRC Press<br>Boca Raton, FL : , : CRC Press, , 2021<br>©2021   |
| Descrizione fisica      | 1 online resource (xxxi, 404 pages) : digital file(s)  |
| Collana                 | Evolutionary cell biology  |
| Disciplina              | 576.53   |
| Soggetti                | Phenotypic plasticity<br>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 --<br>Section II. Causes of plasticity: from genes to ecology -- Section III.<br>Consequences of plasticity: adaptation, origination, diversification --<br>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.

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