

1. Record Nr.	UNINA9910962338703321
Titolo	Phenotypic integration : studying the ecology and evolution of complex phenotypes / / edited by Massimo Pigliucci, Katherine Preston
Pubbl/distr/stampa	Oxford ; , : Oxford University Press, , 2023 2004
ISBN	0-19-770180-9 1-280-50314-9 0-19-534775-7 1-4337-0083-2
Descrizione fisica	1 online resource (460 p.)
Collana	Oxford scholarship online
Disciplina	576.53
Soggetti	Phenotype Evolutionary genetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 2004.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; Contributors; Introduction; 1. The Diversity of Complexity; Part I: Adaptation and Constraints; 2. Floral Integration, Modularity, and Accuracy: Distinguishing Complex Adaptations from Genetic Constraints; 3. Integration and Modularity in the Evolution of Sexual Ornaments: An Overlooked Perspective; 4. The Evolution of Allometry in Modular Organisms; 5. Phenotypic Integration as a Constraint and Adaptation; 6. Evolvability, Stabilizing Selection, and the Problem of Stasis; 7. Studying the Plasticity of Phenotypic Integration in a Model Organism 8. Integrating Phenotypic Plasticity When Death Is on the Line: Insights from Predator-Prey Systems 9. QTL Mapping: A First Step Toward an Understanding of Molecular Genetic Mechanisms Behind Phenotypic Complexity/Integration; 10. Integration, Modules, and Development: Molecules to Morphology to Evolution; 11. Studying Mutational Effects on G-Matrices; 12. The Macroevolution of Phenotypic Integration; 13. Form, Function, and Life History: Spatial and Temporal Dynamics of Integration; 14. Morphological Integration in Primate Evolution; 15. Phylogenetic Comparative Analysis of Multivariate Data

16. The Evolution of Genetic Architecture 17. Multivariate Phenotypic Evolution in Developmental Hyperspace; 18. The Relativism of Constraints on Phenotypic Evolution; 19. The Developmental Systems Perspective: Organism-Environment Systems as Units of Development and Evolution; Conclusion; Index; A; B; C; D; E; F; G; H; I; J; L; M; N; O; P; Q; R; S; T; U; V; W; Z

Sommario/riassunto

Collecting recent research on phenotype integration, this volume offers a cutting edge review of the subject, an area of increasing attention from evolutionary biologists, developmental biologists, geneticists, & organismal biologists.
