

1. Record Nr.	UNINA9910783691803321
Titolo	Phenotypic integration : studying the ecology and evolution of complex phenotype / / edited by Massimo Katherine, Pigliucci Preston
Pubbl/distr/stampa	New York, New York : , : Oxford University Press, , 2004 ©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.)
Disciplina	576.53
Soggetti	Phenotype Evolutionary genetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters 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

The interface of evolution and development has attracted the attention of evolutionary and developmental biologists, geneticists, and organismal biologists. Pigliucci (ecology, evolutionary biology, University of Tennessee) and Preston (botany, Stanford University) bring together work by experts in the field of phenotype integration, shedding light