

1. Record Nr.	UNINA9910132343303321
Titolo	Genotype-by-environment interactions and sexual selection // edited by John Hunt and David Hosken
Pubbl/distr/stampa	Oxford, England ; ; Chichester, England ; ; Hoboken, New Jersey : , : Wiley Blackwell, , 2014 ©2014
ISBN	1-118-91262-4 1-118-91259-4 1-118-91261-6
Descrizione fisica	1 online resource (373 p.)
Disciplina	591.56/2
Soggetti	Sexual selection in animals Genotype-environment interaction
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	Cover; Title Page; Copyright; Contents; List of Contributors; Preface; About the Companion Website; Part I Introduction and Theoretical Concepts; Chapter 1 Genotype-by-Environment Interactions and Sexual Selection: Female Choice in a Complex World; 1.1 Introduction; 1.2 Classical female choice; 1.3 The instability of ""good genes"" when male quality is a complex trait; 1.3.1 Additive effects of genes on genotypic value; 1.3.2 Genotype-by-environment interaction; 1.3.3 Gene-by-gene interaction; 1.3.4 Indirect genetic effects sensu quantitative genetics; 1.4 Discussion; Acknowledgments ReferencesChapter 2 GEIs when Information Transfer is Uncertain or Incomplete; 2.1 Introduction; 2.2 Lewontin's ""very annoying conclusions""; 2.3 Ignorance, uncertainty, and information; 2.4 Information and fitness; 2.5 Bayesian Statistical Decision Theory; 2.6 Discrimination and selection: the signal detection perspective; 2.7 Search, discrimination, and mate choice by female pied flycatchers; 2.8 Optimal search and the marginal value of additional information; 2.9 Biological signaling theory; 2.10 GEIs in condition, signals, and preferences; 2.11 Conclusions; References

Chapter 3 Local Adaptation and the Evolution of Female Choice 3.1 Introduction; 3.2 The Jekyll and Hyde nature of GEIs; 3.3 The model; 3.3.1 Overview; 3.3.2 Initialization phase; 3.3.3 Dispersal; 3.3.4 Determination of condition and viability selection; 3.3.5 Breeding; 3.3.6 Mutation; 3.4 Less local adaptation, more female choice!; 3.5 Can we generalize?; 3.6 GEIs often maintain costly choice in a suitably variable world; 3.7 Insights from the model; 3.8 Prospects for empirical work; 3.9 Prospects for theoretical work; 3.10 Conclusions; References

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Sommario/riassunto

Sexual selection is recognized as being responsible for some of the most extravagant morphologies and behaviors in the natural world, as well as a driver of some of the most rapid evolution. While Charles Darwin's theory is now a fundamental component of modern evolutionary biology, the impact of genotype-by-environment interactions on sexual selection has thus far received little attention. This book represents the first comprehensive analysis of the role genotype-by-environment interactions play in sexual selection and the potential implications that they have for the evolutionary process.
