

1. Record Nr.	UNINA9910967886803321
Autore	Wade Michael John <1949->
Titolo	Adaptation in Metapopulations : How Interaction Changes Evolution // Michael J. Wade
Pubbl/distr/stampa	Chicago : , : University of Chicago Press, , [2016] ©2016
ISBN	9780226129877 022612987X
Descrizione fisica	1 online resource (269 p.)
Collana	Interspecific Interactions
Disciplina	578.4
Soggetti	Adaptation (Biology) Population biology Ecology
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 and index.
Nota di contenuto	Frontmatter -- Contents -- 1 Introduction -- 2 What Is Group Selection? -- 3 Group Selection in the 1970s -- 4 Career Beginnings and Science after the Thesis -- 5 Experimental Studies of Population Heritability -- 6 Population Ecology and Population Heritability -- 7 The Evolution of Sociality -- 8 Calibrating the Laboratory to Nature -- 9 Experimental Studies of Wright's Shifting Balance Theory -- 10 Beyond the Shifting Balancing Theory -- Acknowledgments -- Reference List -- Index
Sommario/riassunto	All organisms live in clusters, but such fractured local populations, or demes, nonetheless maintain connectivity with one another by some amount of gene flow between them. Most such metapopulations occur naturally, like clusters of amphibians in vernal ponds or baboon troops spread across the African veldt. Others have been created as human activities fragment natural landscapes, as in stands of trees separated by roads. As landscape change has accelerated, understanding how these metapopulations function-and specifically how they adapt-has become crucial to ecology and to our very understanding of evolution itself. With Adaptation in Metapopulations, Michael J. Wade explores a key component of this new understanding of evolution: interaction.

Synthesizing decades of work in the lab and in the field in a book both empirically grounded and underpinned by a strong conceptual framework, Wade looks at the role of interaction across scales from gene selection to selection at the level of individuals, kin, and groups. In so doing, he integrates molecular and organismal biology to reveal the true complexities of evolutionary dynamics from genes to metapopulations.
