

1. Record Nr.	UNINA9910785518203321
Autore	Pfennig David W (David William), <1955->
Titolo	Evolution's wedge : competition and the origins of diversity // David W. Pfennig, Karin S. Pfennig
Pubbl/distr/stampa	Berkeley : , : University of California Press, , [2012]
ISBN	1-283-58414-X 0-520-95404-1
Descrizione fisica	1 online resource (319 pages)
Collana	Organisms and environments ; ; no. 12
Classificazione	WH 3000
Disciplina	577.8/3
Soggetti	Divergence (Biology) Competition (Biology) Animal diversity
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	Front matter -- Contents -- Preface -- 1. Discovery of a Unifying Principle -- 2. Why Character Displacement Occurs -- 3. When Character Displacement Occurs -- 4. How Character Displacement Unfolds -- 5. Diversity and Novelty Within Species -- 6. Ecological Consequences -- 7. Sexual Selection -- 8. Speciation -- 9. Macroevolution -- 10. Major Themes and Unsolved Problems -- References -- Index
Sommario/riassunto	Evolutionary biology has long sought to explain how new traits and new species arise. Darwin maintained that competition is key to understanding this biodiversity and held that selection acting to minimize competition causes competitors to become increasingly different, thereby promoting new traits and new species. Despite Darwin's emphasis, competition's role in diversification remains controversial and largely underappreciated. In their synthetic and provocative book, evolutionary ecologists David and Karin Pfennig explore competition's role in generating and maintaining biodiversity. The authors discuss how selection can lessen resource competition or costly reproductive interactions by promoting trait evolution through a process known as character displacement. They further describe character displacement's underlying genetic and developmental

mechanisms. The authors then consider character displacement's myriad downstream effects, ranging from shaping ecological communities to promoting new traits and new species and even fueling large-scale evolutionary trends. Drawing on numerous studies from natural populations, and written for a broad audience, Evolution's Wedge seeks to inspire future research into character displacement's many implications for ecology and evolution.

2. Record Nr.	UNINA9910346689003321
Autore	Casamassimi Amelia
Titolo	Transcriptional Regulation : : Molecules, involved Mechanisms and Misregulation / / Amelia Casamassimi, Alfredo Ciccodicola
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2019 Basel, Switzerland : , : MDPI, , 2019
ISBN	9783039212668 3039212664
Descrizione fisica	1 electronic resource (356 p.)
Soggetti	Biology, life sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Transcriptional regulation is a critical biological process involved in the response of a cell, a tissue or an organism to a variety of intra- and extra-cellular signals. Besides, it controls the establishment and maintenance of cell identity throughout developmental and differentiation programs. This highly complex and dynamic process is orchestrated by a huge number of molecules and protein networks and occurs through multiple temporal and functional steps. Of note, many human disorders are characterized by misregulation of global transcription since most of the signaling pathways ultimately target components of transcription machinery. This book includes a selection of papers that illustrate recent advances in our understanding of

transcriptional regulation and focuses on many important topics, from cis-regulatory elements to transcription factors, chromatin regulators and non-coding RNAs, other than several transcriptome studies and computational analyses.
