Record Nr. UNINA9910808105303321 Autore Nosil Patrik Titolo Ecological speciation / / Patrik Nosil Oxford,: Oxford University Press, 2012 Pubbl/distr/stampa **ISBN** 0-19-162802-6 1-280-59456-X 9786613624390 0-19-162801-8 Edizione [1st ed.] Descrizione fisica 1 online resource (299 p.) Oxford series in ecology and evolution Collana Disciplina 576.86 Soggetti **Species Evolution (Biology)** Niche (Ecology) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Cover; Contents; Introduction; Abbreviations; Part I: Ecological speciation and its alternatives; 1 What is ecological speciation?; 1.1. The often-continuous nature of the speciation process; 1.2. Ecological speciation via divergent natural selection: 1.3. A brief history of the ecological speciation hypothesis; 1.4. Alternatives to ecological speciation; 1.5. Other roles for ecology in speciation: population persistence and niche conservatism; 1.6. Summary; 2 Predictions and tests of ecological speciation; 2.1. Comparative approaches (ERG); 2.2. Trait-based approaches ("magic traits") 2.3. Fitness-based approaches (selection = RI)2.4. Gene-flow-based approaches (isolation-by-adaptation); 2.5. Phylogenetic shifts method; 2.6. Inferring causality when testing for ecological speciation; 2.7. Tests and predictions of ecological speciation: conclusions and future directions; Part II: Components of ecological speciation; 3 A source of

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The origin of biological diversity, via the formation of new species, can be inextricably linked to adaptation to the ecological environment. Specifically, ecological processes are central to the formation of new species when barriers to gene flow (reproductive isolation) evolve between populations as a result of ecologically-based divergent natural selection. This process of 'ecological speciation' has seen a large body of particularly focused research in the last 10-15 years, anda review and synthesis of the theoretical and empirical literature is now timely. The book begins by clarifying wha

geographic approaches