

1. Record Nr.	UNINA9910964711303321
Titolo	Adaptation and complex design / / John C. Avise and Francisco J. Ayala, editors
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, c2007
ISBN	9786611110079 9781281110077 1281110078 9780309667869 0309667860
Edizione	[1st ed.]
Descrizione fisica	1 online resource (379 p.)
Collana	In the light of evolution ; ; v. 1
Altri autori (Persone)	AviseJohn C AyalaFrancisco J <1934-2023.> (Francisco Jose)
Disciplina	576.8
Soggetti	Evolution (Biology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Vol. 1 based on a colloquium of the National Academy of Sciences, held December 1-2, 2006, in Irvine, California.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	pt. 1. Introduction essay -- pt. 2. Epistemological approaches to biocomplexity assessment -- pt. 3. From individual ontogeny to symbiosis : a hierarchy of complexity -- pt. 4. Case studies : dissecting complex phenotypes -- pt. 5. Concluding essay.
Sommario/riassunto	In December 2006, the National Academy of Sciences sponsored a colloquium (featured as part of the Arthur M. Sackler Colloquia series) on "Adaptation and Complex Design" to synthesize recent empirical findings and conceptual approaches toward understanding the evolutionary origins and maintenance of complex adaptations. Darwin's elucidation of natural selection as a creative natural force was a monumental achievement in the history of science, but a century and a half later some religious believers still contend that biotic complexity registers conscious supernatural design. In this book, modern scientific perspectives are presented on the evolutionary origin and maintenance of complex phenotypes including various behaviors, anatomies, and physiologies. After an introduction by the editors and an opening historical and conceptual essay by Francisco Ayala, this book includes

14 papers presented by distinguished evolutionists at the colloquium. The papers are organized into sections covering epistemological approaches to the study of biocomplexity, a hierarchy of topics on biological complexity ranging from ontogeny to symbiosis, and case studies explaining how complex phenotypes are being dissected in terms of genetics and development.
