

1. Record Nr.	UNINA9910781870703321
Titolo	Animal camouflage : mechanisms and function / / edited by Martin Stevens, Sami Merilaita [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	1-107-21529-3 1-139-12464-1 1-283-29849-X 1-139-12306-8 9786613298492 0-511-85205-3 1-139-11731-9 1-139-12797-7 1-139-11295-3 1-139-11514-6
Descrizione fisica	1 online resource (xii, 357 pages) : digital, PDF file(s)
Disciplina	591.47/2
Soggetti	Camouflage (Biology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Animal camouflage : function and mechanisms / Martin Stevens and Sami Merilaita -- 2. Crypsis through background matching / Sami Merilaita and Martin Stevens -- 3. The concealment of body parts through coincident disruptive coloration / Innes C. Cuthill and Aron Székely -- 4. The history, theory and evidence for a cryptic function of countershading / Hannah M. Rowland -- 5. Camouflage-breaking mathematical operators and countershading / Ariel Tankus and Yehezkel Yeshurun -- 6. Nature's artistry : revisiting Abbott H. Thayer's assertions about camouflage in art, war and nature / Roy R. Behrens -- 7. Camouflage behaviour and body orientation on backgrounds containing directional patterns / Richard J. Webster, Alison Callahan, Jean-Guy J. Godin and Thomas N. Sherratt -- 8. Camouflage and visual perception / Tom Troscianko, Christopher P. Benton, P. George Lovell,

David J. Tolhurst and Zygmunt Pizlo -- 9. Rapid adaptive camouflage in cephalopods / R.T. Hanlon, Chuan-Chin C. Chiao, Lydia M. Mathger, Kendra C. Buresch, Alexandra Barbosa, Justine J. Allen, Liese Siemann and Charles Chubb -- 10. What can camouflage tell us about non-human visual perception? : a case study of multiple cue use in the cuttlefish (*Sepia* spp.) / Sarah Zylinski and Daniel Osorio -- 11. Camouflage in marine fish / Justin Marshall and Sonke Johnsen -- 12. Camouflage in decorator crabs : integrating ecological, behavioural and evolutionary approaches / Kristin M. Hultgren and John J. Stachowicz -- 13. Camouflage in colour changing animals : trade-offs and constraints / Devi Stuart-Fox and Adnan Moussalli -- 14. The multiple disguises of spiders / Marc Thery, Teresita C. Insausti, Jeremy Defrize and Jerome Casas -- 15. Effects of animal camouflage on the evolution of live backgrounds / Kevin R. Abbott and Reuven Dukas -- 16. The functions of black and white colouration in mammals : review and synthesis / Tim Caro -- 17. Evidence for camouflage involving senses other than vision / Graeme D. Ruxton.

Sommario/riassunto

In the last decade, research on the previously dormant field of camouflage has advanced rapidly, with numerous studies challenging traditional concepts, investigating previously untested theories and incorporating a greater appreciation of the visual and cognitive systems of the observer. Using studies of both real animals and artificial systems, this book synthesises the current state of play in camouflage research and understanding. It introduces the different types of camouflage and how they work, including background matching, disruptive coloration and obliterative shading. It also demonstrates the methodologies used to study them and discusses how camouflage relates to other subjects, particularly with regard to what it can tell us about visual perception. The mixture of primary research and reviews shows students and researchers where the field currently stands and where exciting and important problems remain to be solved, illustrating how the study of camouflage is likely to progress in the future.
