1. Record Nr. UNINA9910821124203321

Autore	Karplus Ilan
Titolo	Symbiosis in fishes : the biology of interspecific partnerships / / Ilan Karplus
Pubbl/distr/stampa	Chichester, West Sussex : , : John Wiley & Sons, Inc., , 2014
ISBN	1-118-75976-1
Descrizione fisica	1 online resource (461 p.)
Disciplina	577.8/5
Soggetti	Symbiosis Aquatic animals Fishes Invertebrates
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 indexes.
Nota di contenuto	Symbiosis in FishesThe Biology of Interspecific Partnerships; Copyright; Contents; Preface ; Introduction ; One The Associations between Fishes and Luminescent Bacteria; Luminescent Bacteria; Symbiotic Luminescent Bacteria in Fish Light Organs; Flashlight Fishes; Taxonomy and Distribution; The Light Organs; The Eye and the Light Organ; Reproduction, Larval and Light Organ Development; The Photophobic Response; The Use of Light by Flashlight Fishes; School Formation; Territorial Defense; Sexual Signaling; Deep Sea Ceratioid Anglerfishes; Structure, Diversity and Distribution Reproductive StrategiesFacultative Sexual Parasitism; Light Organ Structure and Development: Light and the Mechanisms Controlling its Emission; The Use of Lures by Anglerfishes; Ponyfishes; Structure, Distribution and Taxonomy; The Light Organ System (LOS) and Diversity of the Generated Light Patterns; Sex-Specific Signaling; Inception of the Association between Luminescent Bacteria and Ponyfishes; Sexual Dimorphism of the LOS, Sex-Specific Signaling and the Role of Sexual Selection in the Evolution of Leiognathid Fishes; Specificity of the Partnerships between Luminescent Bacteria and Fishes Optimization of the Benefits to Fishes from their Association with BacteriaThe Evolution of the Partnerships between Fishes and Luminescent Bacteria; References; TWO The Associations between

Fishes and Sponges ; Sponges; Predator Deterrence by Sponges; Multiple Species Assemblages in Sponges; Obligatory Fish Symbionts and Adaptations for Living in Association with Sponges; Nutrition, Reproduction and Sponge Occupation by Obligatory Symbiotic Fishes; Partner Specificity and Sponge Sharing by Obligatory Symbiotic Fishes; Evolution of the Partnership Between Obligatory Fish Symbionts and Sponges
Sponges as Living Incubators of Fish EggsFacultative Partnerships Between Fishes and Sponges; References; THREEThe Associations between Fishes and Anthozoans ; Sea Anemones; The Stinging Cells and their Release Mechanism; Obligatory Associations with Sea Anemones of Fishes of the Genera Amphiprion and Premnas ; The Taxonomy, Distribution and Ecology of Host Sea Anemones and their Associated Fishes; The Protection of Anemone Fishes from Sea Anemones; Recognition, Attraction to and Selection of Sea Anemones by Anemone Fishes; Partner Specificity; Host Preference; Competitive Interactions
Stochastic ProcessesHabitat Preference; Geographical Overlap; Protection from Sea Anemones; Species Coexistence; Adaptations of Anemone Fishes for Living with Sea Anemones; Protandric Sex Reversal; Monogamy and Mate Recognition; Step-fathering; Social Control of Growth and the Tolerance ofNonbreeders by the Breeders; Fish Territoriality, Aggressionand the Sea Anemone; Limited Larval Dispersal and NatalRecruitment; Benefits and Costs to Anemone Fishes and Sea Anemones from being Associated and their Short-term Mutual Impacts; The Evolution of the Anemone Fish-Sea Anemone Partnership
The Facultative Associations Between Fishes and Sea Anemones

Sommario/riassunto

Symbiosis in Fishes provides comprehensive coverage of the biology of partnerships between fishes and invertebrates, ascending the phylogenetic scale, from luminescent bacteria, sponges and coelenterates to molluscs, crustaceans and echinoderms. Both facultative and obligatory partnerships are reviewed with emphasis on the behavioral, ecological and evolutionary aspects of fish symbiosis. Each of the eight chapters of this book focuses on a different group of partners. The structure, physiology and anti-predatory strategies of each group are described to provide the necessary backgro