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Autore	Rocha Maria J
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""Conclusions""; ""References""; ""6. Hormonally Derived Sex Pheromones in Fish""; ""Introduction""; ""Order Cypriniformes""; ""Order Salmoniformes""; ""Order Perciformes""; ""Hormonal Regulation of Hormonal Pheromone Functions""; ""Hormonal Pheromones and the Issue of Species Specificity""; ""References""; ""7. Reproductive Physiology in Viviparous Teleosts""; ""Introduction""; ""Poeciliidae"" ""Zoarcidae"" ""Scorpaenidae""; ""Conclusion""; ""References""; ""8. Mating Systems in Fishes""; ""Introduction""; ""Defining Mating Systems""; ""Monogamy""; ""Polygamy""; ""Mating System Determinants""; ""References""; ""9. Reproductive Strategies of Fish""; ""Release of Offspring""; ""Oviparity""; ""Viviparity""; ""Spawning Types""; ""Special Breeders""; ""Gonochorism and Sex Change""; ""References""; ""10. Energetic Trade-offs in Reproduction: Cost-Benefit Considerations and Plasticity""; ""Introduction""; ""Allocation of Energy Resources in Reproduction"" ""Male and Female Allocation Patterns"" ""When to Reproduce?""; ""Reproductive Energy Compartments""; ""Conclusion""; ""References""; ""11. The Influence of Reproductive Behaviour on the Social Organization of Shoaling Fish""; ""Overview""; ""The Costs and Benefits of Group Living""; ""Indirect Effects of Reproduction on Social Organization""; ""Direct Effects of Reproduction on Social Organization""; ""Ecological and Evolutionary Implications""; ""References""; ""12. Parental Care and Predation Risk in Fish"" ""Defend, Desert or Devour""; ""Introduction""; ""Predation Risk of Parent"" ""Adaptations in Parent Behaviour to Avoid being Eaten""

Sommario/riassunto

"With the decline in world fish stocks, our knowledge of fish reproduction has become fundamental. Reproduction is an essential commitment to future generation. It is also a continuous development process throughout ontogeny, requiring energetic, ecological, physiological, anatomical, biochemical and endocrinological adaptations. The first chapters highlight important issues affecting fish normal ways of reproductive development; details would focus on species living in opposite environments, such as tropical and polar fishes; far related, as teleosts and cartilaginous fishes; and finally, fish having different reproductive strategies. Thereafter, since many fishes live in detrimental environments, mainly induced by the continuous input of xenobiotic substances into waterways, the authors found it highly pertinent to include this topic. Herein, the authors fix their attention on the factors and mechanisms that may well affect reproduction-related hormonal systems as also on known consequences for fish living i"--Provided by publisher.
