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Descrizione fisica	1 online resource (558 pages) : illustrations
Collana	Advances in Experimental Medicine and Biology, , 2214-8019 ; ; 1200
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Soggetti	Animal culture Reproductive health Medicine - Research Biology - Research Animal Science Reproductive Medicine Biomedical Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Foreword: Tom Lovejoy -- Introduction: Reproductive Science as an Essential Component of Conservation Biology -- Section I: Survival and Adaptation of Species in a Changing Environment -- The Importance of Reproduction for the Conservation of Slow-Growing Animal Populations -- Reproductive Impact of Environmental Chemicals on Animals -- The Transgenerational Impact of Environmental Change -- Stress, Well-Being and Reproductive Success -- Physiological Thresholds in the Context of Marine Mammal Conservation -- The Role of Reproductive Sciences in the Preservation and Breeding of Commercial and Threatened Teleost Fishes -- Reproductive Microbiomes in Wild Animal Species -- A New Dimension in Conservation Biology -- Section II: Progress in Understanding, Assisting, or Suppressing Reproduction in Wild Species -- Update on Comparative Reproductive Biology of Elephants: Factors Affecting Reproduction, Health, and Welfare -- Comprehensive Breeding Techniques for the Giant Panda -- Marsupials:

Progress and Prospects -- Using the Koala (*Phascolarctos cinereus*) as a Case Study to Illustrate the Development of Artificial Breeding Technology in Marsupials: An Update -- Reproductive Science Methods for Wild, Fully-Marine Mammals: Current Approaches and Future Applications -- Amphibian Assisted Reproductive Technologies: Moving from Technology to Application -- Reproductive Science in Sharks and Rays -- Cryopreservation as a Tool for Reef Restoration: 2019 -- Fertility Control in Wildlife: Review of Current Status, Including Novel and Future Technologies -- From the Ivory Tower to Reality: Conclusions of the New Edition -- .

Sommario/riassunto

This second edition emphasizes the environmental impact on reproduction, with updated chapters throughout as well as complete new chapters on species such as sharks and rays. This is a wide-ranging book that will be of relevance to anyone involved in species conservation, and provides critical perspectives on the real utility of current and emerging reproductive sciences. Understanding reproductive biology is centrally important to the way many of the world's conservation problems should be tackled. Currently the extinction problem is huge, with up to 30% of the world's fauna being expected to disappear in the next 50 years. Nevertheless, it has been estimated that the global population of animals in zoos encompasses 12,000 – 15,000 species, and we anticipate that every effort will be made to preserve these species for as long as possible, minimizing inbreeding effects and providing the best welfare standards available. Even if the reproductive biology community cannot solve the global biodiversity crisis for all wild species, we should do our best to maintain important captive populations. Reproductive biology in this context is much more than the development of techniques for helping with too little or too much breeding. While some of the relevant techniques are useful for individual species that society might target for a variety of reasons, whether nationalistic, cultural or practical, technical developments have to be backed up by thorough biological understanding of the background behind the problems.
