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Advances in Marine Biology, 4, 91 – 300. Coelho , M.L. , 1985 . Review of the influence of oceanographic factors on cephalopod distribution and life cycles .

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Advances in Cephalopod Science: Biology, Ecology, Cultivation and Fisheries-volume 67 in the Advances in Marine Biology series-addresses major themes of growing research interest in the field of cephalopod research. The book is composed of four chapters incorporating the latest advances in biology, ecology, life cycles, cultivation, and fisheries of cephalopods. Each chapter is written by a team of internationally recognized authorities to reflect recent findings and understanding. The book represents a breakthrough contribution to the field of cephalopod science. Advances in Marine Biology was first published in 1963 under the founding editorship of Sir Frederick S. Russell, FRS. Now edited by Michael P. Lesser, with an internationally renowned editorial board, the serial publishes in-depth and up-to-date reviews on a wide range of topics that appeal to postgraduates and researchers in marine biology, fisheries science, ecology, zoology, and biological oceanography. Eclectic volumes in the series are supplemented by thematic volumes on such topics as the biology of calanoid copepods. Covers cephalopod culture Covers environmental effects on cephalopod population dynamics Covers biology, ecology and biodiversity of deep-sea cephalopods Covers life stage transitions in successful cephalopod life strategies

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*Cephalopod Culture* is the first compilation of research on the culture of cephalopods. It describes experiences of culturing different groups of cephalopods: nautiluses, sepioids (*Sepia officinalis*, *Sepia pharaonis*, *Sepiella inermis*, *Sepiella japonica* *Euprymna hyllebergi*, *Euprymna tasmanica*), squids (*Loligo vulgaris*, *Doryteuthis opalescens*, *Sepioteuthis lessoniana*) and octopods (*Amphioctopus aegina*, *Enteroctopus megalocyathus*, *Octopus maya*, *Octopus mimus*, *Octopus minor*, *Octopus vulgaris*, *Robsonella fontaniana*). It also includes the main conclusions which have been drawn from the research and the future challenges in this field. This makes this book not only an ideal introduction to cephalopod culture, but also a valuable resource for those already involved in this topic.

The last five years have been extremely challenging, but also very innovative for cephalopod science, and the outstanding tradition of biological contribution with cephalopod molluscs as key players in science and human activities and interests has continued. This Research Topic is one of several dedicated to cephalopod molluscs (e.g., Hanke and Osorio, 2018; Ponte et al., 2018) hosted by Frontiers over the last few years, not to

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mention other papers published separately. Highlighting of cephalopod science is important because it has much to offer not only the life science community, but also more broadly the public perception of science and its understanding and relationship with scientific endeavour and cephalopods as living organisms and part of our everyday life (at least for most of us). This contribution illustrates the key needs that need to be overcome by the cephalopod research community, i.e. rapid and effective mechanisms for exchange of knowledge and resources, sharing of laboratory protocols, videos, tissues, samples and data-sets, innovative approaches and initiatives in public engagement. The cuttlefish comic included is an excellent example of a type of media that can be used to expand scientific knowledge to the public and human relationship with live animals. There are strategic challenges in convincing globally distributed policy makers and funders of the relevance of cephalopods in scientific advances, and also in the regulatory aspects, since cephalopods are the only invertebrates whose use is regulated in Europe in a research context and this increases the need for integrated oversight and direction in terms of ethics and animal welfare (e.g., Jacquet et al., 2019a; 2019b; Ponte et al., 2019). This Research Topic also aligns with the interests of the cephalopod community in stimulating public interest in cephalopods extending to a broader audience that could include chefs and gourmets, and fishers and scientists aiming to develop sustainable food resources. “ CephInAction: Towards Future Challenges for Cephalopod Science ” Research Topic includes 14 papers from about 40 authors representing ten different countries, thus overlapping with the original parties that contributed to the COST FA1301 that, together with CephRes, promoted and supported this editorial initiative.

The aim of this volume is to gather and synthesise the research conducted on the biology (early life history stages, age and growth, maturation and fecundity), ecology (distribution, migrations, diet, predators and parasites) and fisheries (fishing areas, methods, landings, management and stock assessment) of the most



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economically important myopsid squids. This cephalopod group is typically associated with the seabed of the inshore coastal zone, usually resting or feeding to the bottom during day, and moving upwards during night-time. The use of substratum for the attachment of the spawned egg masses is a key aspect of the myopsids biology. The spawning behaviour is complex, and females commonly mate with multiple males over short time periods. The squid aggregations are targeted by a commercial handline jig fishery or caught as a by-catch of the commercial inshore demersal trawl fishery. Managing and forecasting myopsid fisheries in highly variable coastal environments constitutes a particular challenge because recruitment processes are mostly driven by the environment.

Advances in Marine Biology was first published in 1963. Now edited by A.J. Southward (Marine Biological Association, UK), P.A. Tyler (Southampton Oceanography Association, UK), C.M. Young (Harbor Branch Oceanographic Institution, USA) and L.A. Fuiman (University of Texas, USA), the serial publishes in-depth and up-to-date reviews on a wide range of topics which will appeal to postgraduates and researchers in marine biology, fisheries science, ecology, zoology, oceanography. Eclectic volumes in the series are supplemented by thematic volumes on such topics as The Biology of Calanoid Copepods. Includes over 55 tables of descriptive data Covers such topics as coral reefs, southern ocean cephalopods, seagrass and mangrove habitats, and much more 4 reviews authored by experts in their relevant fields of study

As with the previous volume, the aim of this book is to gather and synthesise the research conducted on the biology (early life history stages, age and growth, maturation and fecundity), ecology (distribution, migrations, diet, predators and parasites) and fisheries (fishing areas, methods, landings, management and stock assessment) of the most economically relevant oegopsid squids. This squid group dominates the

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pelagic, oceanic environment and large populations (namely of ommastrephids) are characteristic of the productive shelf-break oceanic boundary currents and up-welling systems, where they normally occupy epi- and mesopelagic depths. Little is known about the spawning and embryonic development of these pelagic squids. They spawn in the relatively inaccessible open sea and extrude the eggs in large gelatinous neutrally buoyant egg masses. Oegopsids play a key role on the vertical energy flow of oceanic ecosystems, acting as an important part of the biological pump from the surface to deeper waters. In fact, some species show a typical daily behaviour that involves vertical migrations from near-surface waters at night-time to mesopelagic depths above or within oxygen minimum zones during the daytime. In addition to the critical role both as prey and predator in the open ocean, some species are the target of some of the worlds largest invertebrate fisheries.

"Cephalopods are often misunderstood creatures. Three biologists set the record straight."—Science News  
Largely shell-less relatives of clams and snails, the marine mollusks in the class Cephalopoda—Greek for “ head-foot ” —are colorful creatures of many-armed dexterity, often inky self-defense, and highly evolved cognition. They are capable of learning, of retaining information—and of rapid decision-making to avoid predators and find prey. They have eyes and senses rivaling those of vertebrates like birds and fishes, they morph texture and body shape, and they change color faster than a chameleon. In short, they captivate us. From the long-armed mimic octopus—able to imitate the appearance of swimming flounders and soles—to the aptly named flamboyant cuttlefish, whose undulating waves of color rival the graphic displays of any LCD screen, there are more than seven hundred species of cephalopod. Featuring a selection of species profiles, Octopus, Squid, and Cuttlefish reveals the evolution, anatomy, life history, behaviors, and relationships of these spellbinding animals. Their existence proves that intelligence can develop in very different ways: not

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only are cephalopods unusually large-brained invertebrates, they also carry two-thirds of their neurons in their arms. A treasure trove of scientific fact and visual explanation, this worldwide illustrated guide to cephalopods offers a comprehensive review of these fascinating and mysterious underwater invertebrates—from the lone hunting of the octopus, to the social squid, and the prismatic skin signaling of the cuttlefish.

Focusing on comparative cognition in cephalopods, this book illuminates the wide range of mental function in this often overlooked group.

An extensive natural history of the marvelous mollusk, featuring stunning photography, underwater research, and personal narratives. The visually arresting and often misunderstood octopus has long captured popular imagination. With an alien appearance and an uncanny intellect, this exceptional sea creature has inspired fear in famous lore and legends—from the giant octopus attack in *20,000 Leagues Under the Sea* to Ursula the sea witch in *The Little Mermaid*. Yet its true nature is more wondrous still. After decades of research, the authors reveal a sensitive, curious, and playful animal with remarkable intelligence, an ability to defend itself with camouflage and jet propulsion, an intricate nervous system, and advanced problem-solving abilities. In this beautifully photographed book, three leading marine biologists bring readers face to face with these amazingly complex animals that have fascinated scientists for decades. From the molluscan ancestry of today's octopus to its ingenious anatomy, amazing mating and predatory behaviors, and other-worldly relatives, the authors take readers through the astounding life cycle, uncovering the details of distinctive octopus personalities. With personal narratives, underwater research, stunning closeup photography, and thoughtful guidance for keeping octopuses in captivity, *Octopus* is the first comprehensive natural history of

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this smart denizen of the sea. Praise for Octopus: The Ocean ' s Intelligent Invertebrate “ The octopus—strange, mysterious, perfectly camouflaged, able to change texture, color, and shape, bendable, sneaky, and intelligent. I heartily recommend this book. ” —Jean-Michel Cousteau, President, Ocean Futures Society

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