1. Record Nr. UNINA9910253955303321

Titolo	Chromogranins: from Cell Biology to Physiology and Biomedicine / / edited by Tommaso Angelone, Maria Carmela Cerra, Bruno Tota
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-58338-7
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (IX, 267 p. 16 illus., 4 illus. in color.)
Collana	UNIPA Springer Series, , 2366-7516
Disciplina	572.68
Soggetti	Human physiology Physiology Molecular biology Human Physiology Animal Physiology Molecular Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Chromaffin cells and Granins: History and Perspectives -- The extended granin family: structure, function, and biomedical implications -- CgA and CgB in granule secretion -- Proteolytic processing of CgA and CgB/Antimicrobial properties of Chromogranins -- Chromogranins and inositol 1,4,5-trisphosphate-dependent Ca2+-signaling -- CgA in angiogenesis and tumor biology -- Full length CgA: a multifaceted protein in cardiovascular health and disease -- Physio-pharmacological aspects of three Chromogranin A-derived peptides: Vasostatin, Catestatin, and Serpinin -- Comparative aspects of CgA-derived peptides in cardiac homeostasis -- Molecular and cellular mechanisms of action of CgA-derived peptides in cardiomyocytes and endothelial cells -- CgA-derived peptides in pre- and post-conditioning cardioprotection -- Catestatin in physiopathology -- Serpinin: from biosynthesis to cell biology and physiopathology -- Pancreastatin and metabolism -- Chromogranins and the quantum release of catecholamines.

Sommario/riassunto	The volume is designed to provide an integrated overview of the results from the last fifteen years of research on Chromogranins in relation to cell biology, physiology and biomedicine. The different chapters highlight novel activities of these proteins, including their role in granule biogenesis, hormone co-storage, stimulus-processing-secretion coupling, autonomic sympathetic/parasympathetic balance, immune and cardiocirculatory function, and the response to stress. Biomedical aspects are also illustrated with focus on the prognostic and diagnostic significance of Chromogranin in the presence of tumors, cardiovascular diseases and inflammatory conditions. The volume is of interest for laboratory and clinical scientists, PhD and Post-doc students that will be inspired to go deep inside the molecular, biochemical, physiological, pharmacological and clinical aspects of these fascinating multifaceted proteins.

2.

Record Nr.	UNINA9911016076103321
Autore	Paululat Achim
Titolo	Metazoa – Morphology and Evolution of Animals : A Practical Guide to the Dissection and Comparative Study of Animals / / by Achim Paululat, Günter Purschke
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2025
ISBN	3-662-69904-4
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (293 pages)
Altri autori (Persone)	PurschkeG (Gunter)
Disciplina	571.31
Soggetti	Zoology Anatomy, Comparative Animal culture Veterinary medicine Biodiversity Animal Anatomy Animal Science Veterinary Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

Nota di contenuto

1. Phylogeny of Metazoa -- 2. Porifera (Sponges) -- 3. Cnidaria (Cnidarians) -- 4. Platyhelminthes (Flatworms) -- 5. Annelida (Segmented Worms) -- 5.1. The Ragworms Hediste sp. and Alitta sp. (Errantia) -- 5.2. The Common Earthworm Lumbricus terrestris (Sedentaria) -- 6. Mollusca (Mollusks) -- 6.1. The Common Pond Mussel Anodonta anatina (Bivalvia) -- 6.2. The Roman Snail Helix pomatia and the Garden Snail Helix aspersa (Gastropoda) -- 7. Nematoda (Roundworms) -- 8. Arthropoda (Arthropods) -- 8.1. The European Crayfish Astacus astacus (Crustacea) -- 8.2. The Argentine Cockroach Blaptica dubia (Hexapoda) -- 9. Echinodermata (Echinoderms) -- 9.1. The Common Starfish Asterias rubens (Asteroidea) -- 9.2. The Shore Sea Urchin Psammechinus miliaris and the Common Sea Urchin Echinus esculentus (Echinoidea) -- 10. Acrania (Cephalochordata) Lancelets -- 11. Chordata, Urochordata (Tunicata, Tunicates) -- 12. Craniota (Vertebrata), Craniates or Vertebrates -- 12.1. The Rainbow Trout Oncorhynchus mykiss (Teleostei, Bony Fishes) -- 12.2. The Laboratory Rat Rattus norvegicus (Mammalia, Mammals) -- Further Reading.

Sommario/riassunto

Over the course of evolution, multicellular animals - Metazoa - have successfully colonized every conceivable habitat on our planet, thanks to their ability to survive and adapt under adverse or changing conditions. But how is an animal's body structured to accomplish this? What organs do animals have, how do they perceive their environment, and what is the evolutionary relationship between these seemingly so different organisms? This volume, designed as a modern practical book, presents the most important body plans of selected animals. It is intended to help all Biology students to recognize and understand the basic body shapes and structures in the respective animal groups, including the main features that have contributed to their evolutionary success, the similarities and differences, and the many different solutions that evolution has come up with for given biological problems. The authors have consistently used focused, compact text and photographs that not only show the animals' most important external features but also explain the dissection process step by step. The authors hope that this new book will help all Biology students successfully complete their practical zoology course and gain new insights into the morphology and evolution of animals.