Record Nr.	UNINA9910298274603321
Titolo	Scorpion Venoms / / edited by P. Gopalakrishnakone, Lourival D. Possani, Elisabeth F. Schwartz, Ricardo C. Rodríguez de la Vega
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2015
ISBN	94-007-6404-9
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (XXV, 575 p. 115 illus., 92 illus. in color. eReference.) : online resource
Collana	Toxinology, , 2542-761X
Disciplina	615.9
Soggetti	Medicine Pharmacology Pharmaceutical technology Life sciences Biochemistry Animal physiology Biomedicine, general Pharmacology/Toxicology Pharmaceutical Sciences/Technology Life Sciences, general Animal Biochemistry Animal Physiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	Scorpions have fascinated humans for a long time, rst and foremost because of the harm the sting of a few species could cause but also due to their unique natural history and for the many biologically active compounds found in their venoms. This volume of the Toxinology handbook series covers all those aspects. The subjects are divided into seven sections starting with an introduction to the general aspects of scorpion biology and ecology, followed by the description of the "envenomation" pathophysiology, pharmacokinetics, and pharmacodynamics of venoms and their complex interactions with the

1.

immune system. The future of anti-scorpion venom therapy is then covered in two chapters dedicated to alternatives to the century-old techniques currently used to produce "anti-venoms". The next section presents a world tour of "scorpionism" and dangerous scorpion species and their impact on human health. It is worth remembering that envenomation due to scorpion stings is a substantial health hazard in Asian, Middle Eastern, African, and Latin American countries, with over one million people stung by scorpions every year, resulting in more than 3,000 deaths. Species-centered overviews of "scorpion venoms" are presented in the next section, after which a section details the two main types of "scorpion toxins". The last section covers highthroughput transcriptome and proteome screenings now known as "venomics". This volume provides chapters that are accessible to a broad audience, yet also contains the depth of knowledge and detail which makes it of interest to experts in the field. Readers of this reference work will leave well informed on the current state of the art of scorpion venom research.