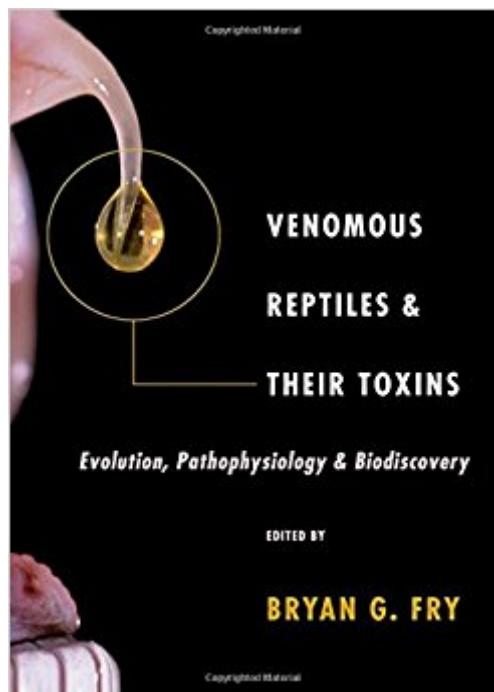


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# Venomous Reptiles And Their Toxins: Evolution, Pathophysiology And Biodiscovery



## Synopsis

Venom research and technology has advanced greatly, rapidly transforming our knowledge of reptile venoms. Research advances, like the development of molecular systematics, provide the framework necessary to reconstruct the evolutionary history of glands and fangs. Such research developments have expanded our understanding of venom's evolution and its usefulness in therapeutic development. The results of this punctuated toxin molecular evolutionary expansion include protein neofunctionalization. While these changes may impact antivenom efficacy, this molecular diversity also facilitates their usefulness in the development of novel drug therapies. *Venomous Reptiles And Their Toxins* brings together the world's leading toxinologists in this comprehensive study of the entire scope of reptile venoms, from clinical effects to evolution to drug design and development. The book contains detailed applied chapters on clinical care of the envenomed patient, ineffective traditional or modern remedies, occupational considerations involved in the maintenance of institutional venomous reptile collections, veterinary care for venomous reptiles and research methods used in venom research. This book also devotes a chapter to each toxin class found in reptile venoms, detailing the full trajectory of research on the peptide or protein in question. These chapters discuss each toxin's respective role in the envenomation process through to how each has been explored for their biomedical potential. This book is a unique resource for anyone working with venomous reptiles.

## Book Information

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## Customer Reviews

"This volume is a major contribution to toxinology. ... Fry's book will not create universal consensus, but it will stimulate debate, essential for all good science. ... Highly recommended for collections in herpetology and toxinology." --CHOICE

Bryan G. Fry is an Associate Professor in the School of Biological Sciences at the University of Queensland. He leads the Venom Evolution Laboratory, working on venoms from a wide diversity of reptiles, centipedes, cnidarians, insects, scorpions, spiders and even venomous mammals. He has published extensively on venom systems evolution and how they can be harnessed for therapeutic use. His discoveries include antifreeze venom in Antarctic octopuses, komodo dragon venom and new species of sea snakes. Fry's publications have appeared in prestigious scientific journals, including *Nature*. He has led field expeditions to over forty countries and he is a member of the Explorers Club. His work has been featured in over seventy natural history documentaries appearing on Animal Planet, BBC, Discovery Channel, National Geographic TV and others. Fry has a B.Sc. (honours) in Molecular Biology, a B.A. (honours) in Scientific Philosophy, as well as B.A. minor studies in Psychology from Portland State University. Subsequently he obtained a Ph.D. in Biochemistry from the University of Queensland, Institute for Molecular Biosciences (Centre for Drug Design and Development). His work has been funded by grants from a diversity of funding agencies, including the Australian Research Council and the Australian Antarctic Division.

This book is the Holy Grail of Complete and concise Information on Venomous Reptiles I've been searching for. The breakdown of the Chapters is fantastic and allows me to make sense of concepts that would otherwise be daunting in a lecture hall. I've only been reading for about a week, But I have concluded that it is one of the MUST HAVE books for anyone's Herpetological Library. If you're remotely interested in Venom as it relates to reptiles and have a desire to learn. Go get this book!!

This is One Awesome Book !! Dr. Bryan Fry has so much knowledge on the subject and writes it in this book where anyone can not only understand but learn so much from this book. I am not a real big reader, but I could not set this book down the first night I had it. Great Information and an easy read !! After receiving this book, I am going to search for more books written by Dr. Bryan Fry !!

This book contains an amazing wealth of current information on venom. Bryan Fry is the Toxinology Guru of the day! This book is well set out and is easy to read, even if the science often goes over my head. It is a must for anyone who is truly interested in venom and venomous reptiles, the effects,

treatments and evolution of this truly staggering array of biological weaponry. I am in awe of the science behind the information herein and value this book as the learning tool it is.

This is exceptionally well written, simple terms and nicely laid out tables. Easy to understand for somebody who last had a Biochemistry course over 20 years ago.

A fascinating and comprehensive examination of the subjects. Written in a clear and concise manner, that is both engrossing and fully informative. They lay person should not be discouraged by the technical aspects of the material, as the editor and contributing authors are known for answering questions. Highly recommend for anyone with an interest in toxinology, or venomous reptiles.

I have been waiting for this book for months and it was worth both the wait and every penny paid for it . The list of contributors to this book is a whose who in the world of herpetology and toxinology . A must have book for anyone interested in venomous herpetology .

this is very educational I am currently learning so much from this book appearance is neat there is more than enough I can learn from this and study more than grateful I purchased this

I bought this is a gift for my husband and he is extremely pleased with this book. It appears to be textbook quality and is extremely technical. He clearly sites where he gets all of his information from, and I feel as though the book is high enough quality that you could use it as a source for academic papers yourself.

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