

# Venoms to Drugs: Venom as a Source for the Development of Human Therapeutics (RSC Drug Discovery)

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The pharmaceutical industry has become increasingly interested in biologics from animal venoms as a potential source for therapeutic agents in recent years, with a particularly emphasis on peptides. To date six drugs derived from venom peptides or proteins have been approved by the FDA, with nine further agents currently being investigated in clinical trials. In addition to these drugs in approved or advanced stages of development, many more peptides and proteins are being studied in varying stages of preclinical development. This unique book provides an up to date and comprehensive account of the potential of peptides and proteins from animal venoms as possible therapeutics. Topics covered include chemistry and structural biology of animal venoms, proteomic and transcriptomic approaches to drug discovery, bioassays, high-throughput screens and target identification, and reptile, scorpion, spider and cone snail venoms as a platform for drug development. Case studies are used to illustrate methods and successes and highlight issues surrounding administration and other important lessons that have been learnt from the development of approved therapeutics based on venoms. The first text to focus on this fascinating area and bridging an important gap, this book provides the reader with essential and current knowledge on this fast-developing area. Venoms to Drugs will find wide readership with researchers working in academia and industry working in all medicinal and pharmaceutical areas.

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