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Ion Channels as Therapeutic Targets, Part A

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This is first of two parts thematic volume focusing on recent developments in ion channels studies and their potential as promising therapeutic targets. This first part is focused more specifically on ion channels as promising treatment targets in neurological and psychiatric disorders. The aim of this volume is to promote further research in the structure, function and regulation of different families of ion channels which would result in designing new efficient targeted drugs with significantly fewer adverse effects. This volume will be particularly useful to investigators working on ion channel biology, chemistry and pharmacology as well as of great help to students interested and/or working on projects in any of these subjects.

Cover image: Hyper-SUMOylation of the Kv7.2/Kv7.3 causes seizure and sudden death. The cartoon depicts two SUMO wrestlers squeezing the potassium channel to turn off the flow of potassium ions. As a consequence, neurons become hyperexcitable, causing seizures, as indicated by spikes in electroencephalogram at the top. The seizure triggers high-degree cardiac conduction blocks, as indicated by electrocardiogram at the bottom (for further details, please read Wu et al. published in this volume).



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