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Ion Channels as Therapeutic Targets, Part B

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This is the second of two parts focusing on recent developments in ion channels studies and their potential as promising therapeutic targets. While the first part focuses more specifically on ion channels as promising treatment targets in neurological and psychiatric disorders, the second part is dedicated to particular ion channel types (e.g. connexin hemichannels, P2X7, TRPV1, TRPM8, virus channels) and their role as therapeutic targets in inflammation, pancreatic cancer, eye disorders, and cardiovascular and gastrointestinal diseases. The contribution of automated technologies to ion channel drug discovery is also discussed in detail in this second part of the two volumes.

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. The two volumes dedicated to ion channels as promising therapeutic targets 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: General architecture of the Transient Receptor Potential Vanilloid Type 1 (TRPV1) channel. Domain organization of the TRPV1 modules is depicted in a two-dimensional view (for further details, please read Cui et al. published in this volume).



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