# Drug design of zinc-enzyme inhibitors : functional, structural, and disease applications / edited by Claudiu T. Supuran, Jean-Yves Winum



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Abstrak

The second most abundant transition element in living organisms, zinc spans all areas of metabolism, with zinc-containing proteins offering both established and potential drug targets. Drug design of zinc-enzyme inhibitors brings together functional and structural information relevant to these zinc-containing targets. With up-to-date overviews of the latest developments field, this unique and comprehensive text enables readers to understand zinc enzymes and evaluate them in a drug design context.
With contributions from the leaders of today's research, Drug design of zinc-enzyme inhibitors covers such key topics as, major drug targets like carbonic anhydrases, matrix metalloproteinases, bacterial proteases, angiotensin-converting enzyme, histone deacetylase, and APOBEC3G, roles of recently discovered zinc-containing isozymes in cancer, obesity, epilepsy, pain management, malaria, and other conditions, cross reactivity of zinc-enzyme inhibitors and activators, the extensive use of X-ray crystallography and QSAR studies for understanding zinc-containing proteins, and clinical applications.