Bioisosteres in Medicinal Chemistry, Volume 54 (Methods and Principles in Medicinal Chemistry)

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Written with the practicing medicinal chemist in mind, this is the first modern handbook to systematically address the topic of bioisosterism.
As such, it provides a ready reference on the principles and methods of bioisosteric replacement as a key tool in preclinical drug development.

The first part provides an overview of bioisosterism, classical bioisosteres and typical molecular interactions that need to be considered,
while the second part describes a number of molecular databases as sources of bioisosteric identification and rationalization. The third part
covers the four key methodologies for bioisostere identification and replacement: physicochemical properties, topology, shape, and overlays of
protein-ligand crystal structures. In the final part, several real-world examples of bioisosterism in drug discovery projects are discussed.

With its detailed descriptions of databases, methods and real-life case studies, this is tailor-made for busy industrial researchers with little time for reading, while remaining easily accessible to novice drug developers due to its systematic structure and introductory section.

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