



De novo Molecular Design

Gisbert Schneider

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Systematically examining current methods and strategies, this ready reference covers a wide range of molecular structures, from organic-chemical drugs to peptides, Proteins and nucleic acids, in line with emerging new drug classes derived from biomacromolecules.

A leader in the field and one of the pioneers of this young discipline has assembled here the most prominent experts from across the world to provide first-hand knowledge. While most of their methods and examples come from the area of pharmaceutical discovery and development, the approaches are equally applicable for chemical probes and diagnostics, pesticides, and any other molecule designed to interact with a biological system. Numerous images and screenshots illustrate the many examples and method descriptions.

With its broad and balanced coverage, this will be the firststop resource not only for medicinal chemists, biochemists and biotechnologists, but equally for bioinformaticians and molecular designers for many years to come.

From the content:

- * Reaction-driven de novo design
- * Adaptive methods in molecular design
- * Design of ligands against multitarget profiles
- * Free energy methods in ligand design
- * Fragment-based de novo design
- * Automated design of focused and target family-oriented compound libraries
- * Molecular de novo design by nature-inspired computing
- * 3D QSAR approaches to de novo drug design
- * Bioisosteres in de novo design
- * De novo design of peptides, proteins and nucleic acid structures, including RNA aptamers

and many more.

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