



## Modern Tools for the Synthesis of Complex Bioactive Molecules

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# Modern Tools for the Synthesis of Complex Bioactive Molecules

## Modern Tools for the Synthesis of Complex Bioactive Molecules

### All the latest tools needed to plan and perform the synthesis of complex bioactive molecules

Focusing on organic, organometallic, and bio-oriented processes, this book explores the impact and use of the latest synthetic tools for the synthesis of complex biologically active compounds. Readers will discover step by step how these synthetic tools have provided new, elegant solutions to many synthetic puzzles. Moreover, they will discover innovative methods that make it possible to control the exact connectivity of atoms within a molecule in order to set precise three-dimensional arrangements.

*Modern Tools for the Synthesis of Complex Bioactive Molecules* features sixteen chapters, each one written by one or more leading experts in organic synthesis from around the world. It covers a broad range of topics that enable readers to take advantage of the latest methods for synthesizing complex molecules, including:

- Modern catalysis, emphasizing key transformations such as C-H functionalizations, cross-couplings, gold-catalyzed reactions, metathesis-based syntheses, and asymmetric organocatalysis
- Eco-compatible transformations, including rearrangements and domino reactions
- Tools for the synthesis of carbohydrates and alkaloids
- New techniques, including the use of fluorine tags and engineered biosynthesis

The last two chapters explore target- and diversity-oriented organic synthesis as well as the use of DNA-based asymmetric catalysis, which are all promising tools for the successful synthesis of complex bioactive molecules.

*Modern Tools for the Synthesis of Complex Bioactive Molecules* is ideal for students and researchers who need to plan and perform the synthesis of complex molecules as efficiently as possible. The book's expert advice will help these readers quickly resolve a broad range of problems that can arise in organic syntheses.

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