



# From Biosynthesis to Total Synthesis: Strategies and Tactics for Natural Products

*Alexandros L. Zografos*

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# From Biosynthesis to Total Synthesis: Strategies and Tactics for Natural Products

*Alexandros L. Zografos*

**From Biosynthesis to Total Synthesis: Strategies and Tactics for Natural Products** Alexandros L. Zografos

Focusing on biosynthesis, this book provides readers with approaches and methodologies for modern organic synthesis. By discussing major biosynthetic pathways and their chemical reactions, transformations, and natural products applications; it links biosynthetic mechanisms and more efficient total synthesis.

- Describes four major biosynthetic pathways (acetate, mevalonate, shikimic acid, and mixed pathways and alkaloids) and their related mechanisms
- Covers reactions, tactics, and strategies for chemical transformations, linking biosynthetic processes and total synthesis
- Includes strategies for optimal synthetic plans and introduces a modern molecular approach to natural product synthesis and applications
- Acts as a key reference for industry and academic readers looking to advance knowledge in classical total synthesis, organic synthesis, and future directions in the field



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