

Classics in Total Synthesis III: Further Targets, Strategies, Methods

By K. C. Nicolaou, Jason S. Chen

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Adopting his didactically skillful approach, K.C. Nicolaou compiles in this textbook the important synthetic methods that lead to a complex molecule with valuable properties. He explains all the key steps of the synthetic pathway, highlighting the major developments in blue-boxed sections and contrasting these to other synthetic methods.

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Editorial Review

Review

"Classics in Total Synthesis III will surely itself become a classic in the literature on the state of the art of contemporary organic synthetic chemistry." (Angewandte Chemie, 2011)

From the Back Cover

Retaining his excellent, proven approach, world-famous chemist and passionate teacher K.C. Nicolaou and his student Jason S. Chen compile here the important strategies and tools employed to construct complex molecules. Through 42 syntheses of 25 challenging natural products they explain the key steps of the synthetic pathway, highlighting the major developments for easier understanding, and contrasting these to other synthetic methods. Similar to its predecessors and completing a trilogy, this textbook analyzes the syntheses in a didactic manner, with several chapters including mini-reviews of key methodologies, and an emphasis on the history, mechanism, scope, and generality of the reactions. In contrast to the first two volumes, this new one features full-color frontispieces.

A wonderful tool for learning and teaching, and a must-have for all current and future organic, medicinal and biological chemists.

From reviews of "Classics in Total Synthesis", Volumes I and II:

"...a volume, (...) which any chemist with an interest in synthetic organic chemistry will wish to acquire."
JACS

"...this superb book (...) will be an essential purchase for many organic chemists."
Nature

"... Classics II is undoubtedly an excellent bargain that is highly recommended to everybody interested in advanced organic chemistry..."
Angewandte Chemie

About the Author

K.C. Nicolaou holds joint appointments at The Scripps Research Institute, where he is the Chairman of the Department of Chemistry and holds the Darlene Shiley Chair in Chemistry and the Aline W. and L.S. Skaggs Professorship of Chemical Biology, and the University of California, San Diego, where he is Distinguished Professor of Chemistry. His impact on chemistry, biology and medicine flows from his research works in chemical synthesis and chemical biology described in numerous publications and patents. For his contributions to science and education, he was elected Fellow of the New York Academy of Sciences, Fellow of the American Academy of Arts and Sciences, Member of the National Academy of Sciences, USA, Member of the German Academy of Sciences Leopoldina, and Corresponding Member of the Academy of Athens, Greece. He is the recipient of many prizes, awards and honors.

Jason S. Chen received his A.B. and A.M. degrees in Chemistry from Harvard University in 2001. After two years as a medicinal chemist at Enanta Pharmaceuticals, he began graduate studies at The Scripps Research Institute under the guidance of Professor K.C. Nicolaou. He received a National Defense Science and Engineering Graduate fellowship, and completed his Ph.D. studies in 2008. He currently is a post-doctoral fellow in Professor Nicolaou's laboratory.

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