



# Strategic Applications of Named Reactions in Organic Synthesis

By Laszlo Kurti, Barbara Czako

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Kurti and Czako have produced an indispensable tool for specialists and non-specialists in organic chemistry. This innovative reference work includes 250 organic reactions and their strategic use in the synthesis of complex natural and unnatural products. Reactions are thoroughly discussed in a convenient, two-page layout--using full color. Its comprehensive coverage, superb organization, quality of presentation, and wealth of references, make this a necessity for every organic chemist.

- \* The first reference work on named reactions to present colored schemes for easier understanding
- \* 250 frequently used named reactions are presented in a convenient two-page layout with numerous examples
- \* An opening list of abbreviations includes both structures and chemical names
- \* Contains more than 10,000 references grouped by seminal papers, reviews, modifications, and theoretical works
- \* Appendices list reactions in order of discovery, group by contemporary usage, and provide additional study tools
- \* Extensive index quickly locates information using words found in text and drawings

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### Editorial Review

#### Review

"...no other book covers the subject of named reactions in such an up-to-date and comprehensive way, ranging from mechanisms to applications. Despite its minor weaknesses, I recommend this book most emphatically to interested chemists as a work of reference and source of inspiration." -Siegfried R. Waldvogel, University of Bonn, Germany, in ANGEWANDTE CHEMIE, WOL. 44, 2005 "This book is outstanding in every way, being polished in presentation, sufficiently detailed in explaining the reactions, and possessing almost encyclopedic indexing and referencing." -JOURNAL OF CHEMICAL EDUCATION "The book would be invaluable to many chemists, students, professors and industrial chemists. Not only will it serve as a text for name reactions, but it is also a review of important mechanisms and an invaluable reference book...It will definitely have a place in the collection of books that are used regularly by all chemists." -Madeleine Joullie, University of Pennsylvania "It is an impressive modern treatise of many important chemical reactions; it was created with great care, and I congratulate the authors on the outstanding contribution that they are making to the literature of organic chemistry...There are several books on 'named reactions', but this one is already my favorite..." -Erik Sorensen, Princeton University, from the Foreword "Beyond introducing the fundamental chemical conversion typical for venerable organic name reaction, this text excels by a clear coverage of mechanisms and superb contemporary examples including an extensive and up-to-date list of references." -Peter Wipf, University of Pittsburgh "The vast wealth of information so effectively compiled in this colorful text will not only prove to be extraordinarily useful to students and practitioners of the art of chemical synthesis, but will also help facilitate the shaping of its future as it moves forward into ever higher levels of complexity, diversity and efficiency." -K.C. Nicolaou, from the Introduction "This extraordinary book was written especially for students by graduate students, but it is far more professional. Named reactions and processes are very important to the field of synthetic organic chemistry, and this book contains 250 of them. This book greatly advances the description of both the art and science of chemical synthesis. Suitable for anyone concerned with organic synthesis. Summing up: Highly recommended. Lower-division undergraduates through professionals; two-year technical program students. - R.E. Buntrock, formerly, University of Maine, CHOICE, Sep. 2006, Vol. 44 No. 01

*"The book version was already popular for its concise and masterful presentation of the most commonly used named reactions in organic chemistry, but immediate access to this valuable source at your fingertips is only one of many benefits that make the app version more appealing than the printed one... In many ways the app platform has allowed the book to come alive with the addition of several useful interactive and search features. The features that have made the textbook so popular are excellently translated to the app version. Clever colour mapping helps the reader to follow each reaction and its proposed mechanism, and? the authors' thoughtfully selected synthetic applications are just as successful as they were for the book. It is in the reference section where new advances have been made by adding a clickable DOI link for each publication, thus enabling the user to go directly to the primary source. Not surprisingly, the small iPhone screen poses challenges for displaying certain busy overview and mechanism in a way that is comfortable to read and view. This challenge is nicely solved by allowing the user to zoom in at will by simply tapping twice on the image they wish to view more closely... This app is absolutely fantastic and a must-have companion for synthetic organic chemists. "--Nature Chemistry, Vol. 4, August 2012*

#### About the Author

Laszlo Kurti is a faculty member in the Department of Biochemistry at UT Southwestern Medical Center in Dallas (<http://kurtilabs.com>). He received his diploma from the University of Debrecen, Hungary, where he conducted research in the laboratory of Professor Sandor Antus. Subsequently he received his MS degree at the University of Missouri-Columbia working with Professor Michael Harmata, and his Ph.D. degree (2006) in synthetic organic chemistry under the supervision of Professor Amos B. Smith III (the University of Pennsylvania). From 2006-2010, he was a Damon Runyon Cancel Fellow in the group of Professor E.J. Corey at Harvard University.

Barbara Czakó was born and raised in Hungary. She received her Diploma from Lajos Kossuth University in Debrecen, Hungary (now University of Debrecen). She obtained her Master of Science degree at University of Missouri-Columbia. Currently she is pursuing her Ph.D. degree in synthetic organic chemistry under the supervision of Prof. Gary A. Molander at the University of Pennsylvania.

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