



Molecules and Medicine

By E. J. Corey, László Kürti, Barbara Czakó

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Molecules and Medicine provides, for the first time ever, a completely integrated look at chemistry, biology, drug discovery, and medicine. It delves into the discovery, application, and mode of action of more than one hundred of the most significant molecules in use in modern medicine. Opening sections of the book provide a unique, clear, and concise introduction, which enables readers to understand chemical formulas.

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Editorial Review

Review

"Molecules and Medicine is a fascinating introduction to the convergence of chemistry and physiology, and to the emergence of the science of molecular medicine." (*The Nucleus*, January 2010)

"Molecules and Medicine is extremely well organized and integrates history, chemistry, biology, and pharmacology of drug development seamlessly." (*The Quarterly Review of Biology*, September 2008)

"...I find this to be a useful book for someone teaching a biochemistry class. Use of examples and information from *Molecules and Medicine* should make material in lectures seem more relevant to students and assist motivation for learning." (*Biochemistry and Molecular Biology Education*, May/June 2008)

"This is a treasure trove of information about molecules as medicines." (*Education in Chemistry*, May 2008)

"*Molecules and Medicine* is an engaging book that takes the reader into the world of small molecule clinical therapeutics and how they are discovered and used to improve health." (*CHOICE*, March 2008)

"...numerous colorful illustrations that help to explain the various topics covered make it easy and interesting reading." (*ChemBioChem*, March 2008)

From the Back Cover

Molecules And Medicine

This book is appropriate for a broad readership, starting with curious and thoughtful college undergraduates and reaching beyond to professors and researchers in the life sciences, chemistry, and medicine. This book provides, for the first time ever, a completely integrated look at chemistry, biology, drug discovery, and medicine.

Molecules and Medicine delves into the discovery, application, and mode of action of more than one hundred of the most significant molecules now in use in modern medicine. Molecule structures and shapes are shown for all of these medicines. The opening sections of the book provide a unique, clear, and concise introduction which enables the reader to understand chemical formulas.

About the Author

E. J. Corey has been a Professor at Harvard University since 1959. He was educated at The Massachusetts Institute of Technology (1945-1950) and served as a faculty member at the University of Illinois from 1951 to 1959. He is the 1990 Nobel Laureate in Chemistry, and the recipient of over seventy international awards and honorary degrees, including the U.S. National Medal of Science, the Japan Prize in Science, and the Priestley Medal of the American Chemical Society. He is a member of the U.S. National Academy of Sciences and the U.S. National Institute of Medicine. Professor Corey is the author of more than 1,000 publications and is one of the most cited authors in science.

Barbara Czakó completed undergraduate studies at the University of Debrecen, Hungary, where she worked with Dr. Sándor Berényi. She obtained a Master of Science degree at the University of Missouri-

Columbia with Professor Shon R. Pulley. Dr. Czakó received her Ph.D. degree (2006) in synthetic organic chemistry under the guidance of Professor Gary A. Molander at the University of Pennsylvania. Currently she is a postdoctoral fellow with Professor E.J. Corey at Harvard University. In 2005 she published with László Kürti the textbook *Strategic Applications of Named Reactions in Organic Synthesis*.

László Kürti was born and raised in Hungary. He received his diploma from the University of Debrecen, Hungary, where he conducted research in the laboratory of Professor Sándor Antus. Subsequently he received his Master of Science 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). Currently he is a Damon Runyon Cancer Fellow in the group of Professor E.J. Corey at Harvard University. In 2005 he published with Barbara Czakó the textbook *Strategic Applications of Named Reactions in Organic Synthesis*.

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