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Nota di contenuto	Front matter -- Contents -- Preface -- Section 1: Chemical Principles in Drug Design and Discovery -- 1.1 Functional Groups of Biomolecules and their Reactions / Pinto, Diana C. G. A. / Pereira, João M. P. / Silva, Artur M. S. -- 1.2 Designing Covalent Inhibitors: A Medicinal Chemistry Challenge / Lopes, Francisca / Santos, Maria M. M. / Moreira, Rui -- Section 2: Chemical Basis of Drug Action and Diseases -- 2.1 Pharmacokinetics and Bioanalysis to Improve Drug Development / Fortuna, Ana / Alves, Gilberto / Falcão, Amílcar -- 2.2 Translational Research in Endocrinology and Neuroimmunology Applied to Depression / Wong, Ma-Li / Lewis, Martin / Licinio, Julio -- 2.3 Understanding the Metabolic Syndrome Using a Biomedical Chemistry Profile / Pereira, Cidália / Monteiro, Rosário / João Martins, Maria -- 2.4 Brain Neurochemistry and Cognitive Performance: Neurotransmitter Systems / Lobo, Andrea / Summavielle, Teresa -- Section 3: Strategies to Develop New and Better Drugs -- 3.1 Amino Acids and Peptides in Medicine: Old or New Drugs? / Vale, Nuno -- 3.2 Targeting Calcium-mediated Excitotoxicity in the CNS / Chambers, James J. -- 3.3 Strategies for Conversion of Peptides to Peptidomimetic Drugs / Fransson, Rebecca / Sköld, Christian / Sandström, Anja -- 3.4 Synthetic Vs. Natural Bioactive Compounds Against Tropical Disease / Pybus,

Brandon S. -- 3.5 Current Trends and Developments for
Nanotechnology in Cancer / Ferreira, Mónica / Almeida, Patrick /
Shahbazi, Mohammad-Ali / Correia, Alexandra / Santos, Hélder A. --
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Sommario/riassunto

Biomedical Chemistry provides readers with an understanding of how fundamental chemical concepts are used to combat some diseases. The authors explain the interdisciplinary relationship of chemistry with biology, physics, pharmacy and medicine. The results of chemical research can be applied to understand chemical processes in cells and in the body, and new methods for drug transportation. Also, basic chemical ideas and determination of disease etiology are approached by developing techniques to ensure optimum interaction between drugs and human cells. This Book is an excellent resource for students and researchers in health-related fields with frontier topics in medicinal and pharmaceutical chemistry, organic chemistry and biochemistry.
