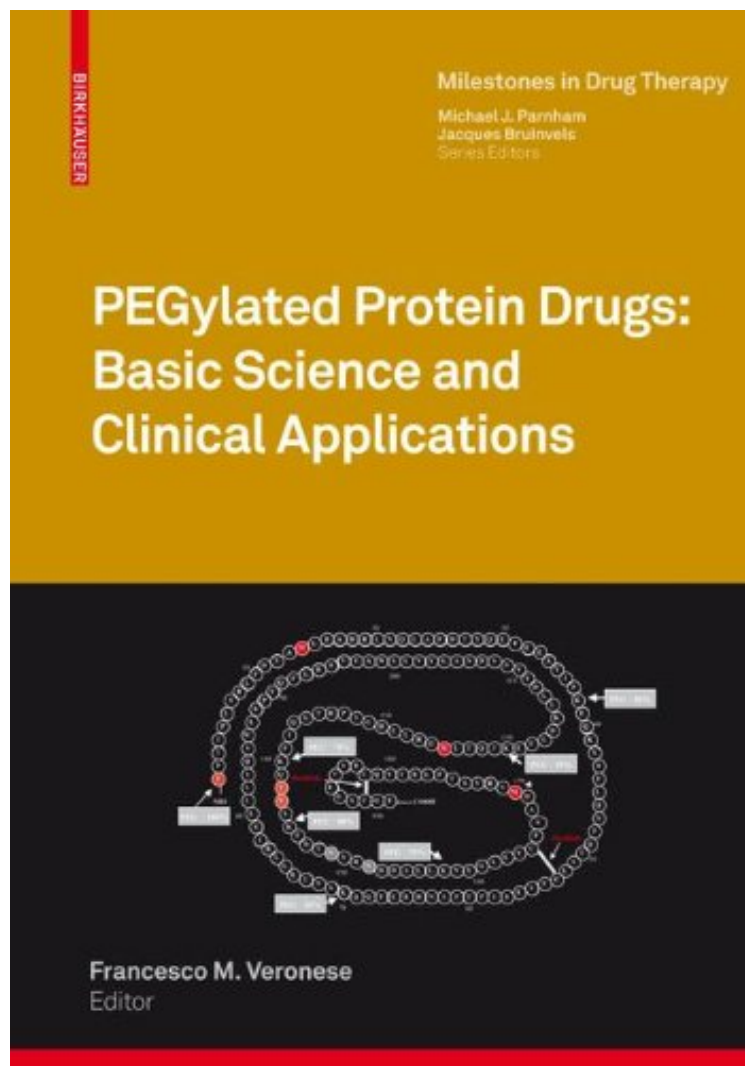


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PEGylation technology and key applications are introduced by this topical volume. Basic physical and chemical properties of PEG as basis for altering/improving in vivo behaviour of PEG-conjugates such as increased stability, improved PK/PD, and decreased immunogenicity, are discussed. Furthermore, chemical and enzymatic strategies for the coupling and the conjugate characterization are reported. Following chapters describe approved and marketed PEG-proteins and PEG-oligonucleotides as well as conjugates in various stages of clinical development.

From the reviews: The volume is dedicated to the recent advances on PEGylation and PEGylated compounds. It represents an excellent update in the evolution of this field, from nanoscience to clinical applications. The book provides an excellent update in this rapidly evolving field. This valuable volume which will spark the interest of both researchers and clinicians contributes to a better understanding of polymer therapeutics. (Magdalena Moisei, *Romanian Journal of Biochemistry*, Vol. 47 (2), 2010) From the Back Cover PEGylated Protein Drugs: Basic Science and Clinical Applications describes the basic technologies and the major results obtained with the PEGylation technique, the covalent binding to proteins, peptides and small organic molecules of the hydrophilic and biocompatible polymer poly(ethylene glycol) to improve their therapeutic efficacy. The book results from the collaboration of recognized experts from academia and industry, working on various aspects of the PEGylation technology. The first chapters provide general information on the physicochemical, pharmacokinetic, immunogenic and toxicological properties of PEG and PEG-conjugates. The classical and more advanced chemical strategies for linking PEG to protein drugs are described as well as novel enzyme-catalysed approaches. Further chapters are devoted to important PEGylated products, namely PEG conjugates of enzymes, cytokines, antibodies or synthetic organic molecules already on the market or in an advanced state of clinical experimentation. Guidelines for the approval by the Health Agencies of these new nanomedicines are also reported as a last chapter. Therefore, this book may be a unique instrument for a thorough review of the strategy, advantages and limitations of all aspects of drug PEGylation as well as a stimulation for researchers to develop new exploitations of this technology. It is of interest to physicians, biochemists, pharmacologists and chemists.