



Drug Delivery in Oncology: From Basic Research to Cancer Therapy, 3 Volume Set

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In this first authoritative overview on modern cancer chemotherapy 121 international specialists have contributed their experience and recent data for what is likely to become the gold standard in the field.

The authors summarize knowledge gained over the past decade, from basic concepts to successful applications in the clinic, covering active and passive targeting strategies as well as tissue-specific approaches. All current and future targeted delivery systems are discussed, from ligand-based to antibody-based polymer-based systems, right up to micro- and nanoparticulate systems. A special section covers the delivery of nucleic acid therapeutics, such as siRNA, miRNA and antisense nucleotides. In each case, a description of the basic technique is followed by a discussion of the latest preclinical and clinical developments in the field.

By virtue of its clear and didactic structure, rich illustrative material and summary chapters, this handbook and ready reference enables the efficient transfer of knowledge between different disciplines, from basic research to the clinician and vice versa. It is equally well suited for professionals, researchers and students in medical oncology and cancer biology, and is also excellent for teaching medical students the foundations of 21st century cancer chemotherapy.

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Editorial Review

Review

“The book is easy to follow, and the majority of chapters have an updated bibliography. Furthermore, most of them contain diagrams and figures that allow the topic to be easily followed. In short, it is a book where actual issues regarding the use of controlled drug-delivery systems in pathology like cancer are described in a detailed way.” (*ChemMedChem*, 1 October 2012)

From the Back Cover

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About the Author

Felix Kratz graduated in Chemistry from the University of Heidelberg in 1991. He then carried out postdoctoral research at the Bioinorganic Institute of the University of Florence and developed tumor-specific carrier systems with ruthenium(III) complexes. Since 1994 he has been Head of Macromolecular Prodrugs at the Tumor Biology Center in Freiburg, Germany, where he is now in charge of organizing and managing translational research from the laboratory to the clinic. His research areas are drug targeting, drug-delivery systems in oncology, prodrugs, receptor targeting, bioconjugate chemistry, and nanocarriers.

Peter Senter earned his PhD in Chemistry from the University of Illinois in Urbana, and then carried out postdoctoral research at the Max Planck Institute in Göttingen, Germany. After various positions at the Dana Farber Cancer Institute, Bristol-Myers Squibb, and Cytokine Networks, he joined Seattle Genetics in 1998, and initiated research programs that led to the technology used for SGN-35 and other promising antibody drug conjugates.

Henning Steinhagen graduated in Organic Chemistry from the University of Heidelberg, Germany in 1998. He then joined the group of Prof. E.J. Corey at Harvard University, Cambridge, USA as postdoctoral fellow. After that he continued his career, working in Discovery Research in Medicinal Chemistry at Bayer, Wuppertal and at Aventis, Frankfurt. In 2009, he joined Grünenthal in Aachen, Germany where he currently

acts as Vice President and Global Head of Drug Discovery.

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