In this first authoritative overview on anticancer drug delivery some 100 international specialists have contributed their experience and recent data for what is likely to become the gold standard in the field. By virtue of its clear and didactic structure, rich illustrative material and summary chapters, this three volume compendium 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, cancer biology, medicinal chemistry and pharmaceutical sciences, and is also an excellent resource for teaching medical students the foundations and potential future of tumor-selective cancer chemotherapy in the 21st century.

From the Preface
None of the approximately fifty anticancer drugs used in conventional chemotherapy exhibit a selective uptake in tumor tissue, and generally only 1-2 % or less of the administered dose reach the tumor target. It is here where the potential of drug delivery in oncology resides. Any means of transporting and delivering anticancer drugs in higher concentrations to the tumor over a long period of time whilst sparing healthy tissue is a step to a more effective cancer chemotherapy. This goal has been pursued for approximately 50 years that encompass encapsulating or conjugating drugs with vitamins, lipids, peptides, antibodies, synthetic or natural polymers, liposomes or protein- or polymer based nano- or microparticles. Scientists now have more opportunities than ever to design and validate new drug delivery systems. This is due to the advent of sophisticated diagnostic tumor imaging and analytical tools that have enabled a far more precise understanding of the biochemical and physiological characteristics of tumor cells and tissue as well as the expression of tumor-associated receptors and antigens.

Felix Kratz, Peter Senter, Henning Steinhagen
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