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

Description: 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.

Contents:

Volume 1:

PRINCIPLES OF TUMOR TARGETING

Limits of Conventional Cancer Chemotherapy

Pathophysiological and Vascular Characteristics of Tumors in Relation to Drug Delivery

Enhanced Permeability and Retention Effect in Relation to Tumor Targeting

Pharmacokinetics of Immunoglobulin G and Serum Albumin: Impact of the Neonatal Fc Receptor on Drug Design

Development of Cancer-Targeting Ligands and Ligand-Drug Conjugates

Antibody-Directed Enzyme Prodrug Therapy (ADEPT) –

Basic Principles and its Practice So Far

TUMOR IMAGING

Imaging Techniques in Drug Development and Clinical Practice

Magnetic Nanoparticles in Magnetic Resonance Imaging and Drug Delivery

Preclinical and Clinical Tumor Imaging with SPECT/CT and PET/CT

Volume 2:

MACROMOLECULAR DRUG DELIVERY SYSTEMS

Antibody-Based Systems

Empowered Antibodies for Cancer Therapy

Mapping Accessible Vascular Targeting to Penetrate Organs and Solid Tumors
Considerations of Linker Technologies
Antibody–Maytansinoid Conjugates: From the Bench to the Clinic
Calicheamicin Antibody–Drug Conjugates and Beyond
Antibodies for the Delivery of Radionuclides
Bispecific Antibodies and Immune Therapy Targeting

POLYMER–BASED SYSTEMS
Design of Polymer–Drug Conjugates
Dendritic Polymers in Oncology: Facts, Features, and Applications
Site–Specific Prodrug Activation and the Concept of Self–Immolation
Ligand–Assisted Vascular Targeting of Polymer Therapeutics
Drug Conjugates with Poly(Ethylene)Glycole
Thermo–Responsive Polymers
Polysaccharide–Based Drug Conjugates for Tumor Targeting
Serum Proteins as Drug Carriers of Anticancer Agents
Future Trends, Challenges, and Opportunities with Polymer–Based Combination Therapy in Cancer
Clinical Experience with Drug–Polymer Conjugates

NANO– AND MICROPARTICULATE DRUG DELIVERY SYSTEMS –

LIPID–BASED SYSTEMS
Overview on Nanocarriers as Delivery Systems
Development of PEGylated Liposomes
Immunoliposomes
Responsive Liposomes (for Solid Tumor Therapy)
Nanoscale Delivery Systems for Combination Chemotherapy

NANO– AND MICROPARTICULATE DRUG DELIVERY SYSTEMS –

POLYMER–BASED SYSTEMS
Micellar Structures as Drug Delivery Systems
Tailor–Made Hydrogels for Tumor Delivery
pH–Triggered Micelles for Tumor Delivery
Albumin–Drug Nanoparticles
Carbon Nanotubes

Volume 3:
LIGAND–BASED DRUG DELIVERY SYSTEMS

Cell–Penetrating Peptides in Cancer Targeting
Targeting to Peptide Receptors
Aptamer Conjugates: Emerging Delivery Platforms for Targeted Cancer Therapy
Design and Synthesis of Drug Conjugates of Vitamins and Growth Factors
Drug Conjugates with Polyunsaturated Fatty Acids

SPECIAL TOPICS

RNA Drug Delivery Approaches
Local Gene Delivery for Therapy of Solid Tumors
Viral Vectors for RNA Interference Applications in Cancer Research and Therapy
Design of Targeted Protein Toxins
Drug Targeting to the Central Nervous System
Liver Tumor Targeting
Photodynamic Therapy: Photosensitizers Targeting and Delivery
Tumor–Targeting Strategies with Anticancer Platinum Complexes

Ordering:

Order Online - http://www.researchandmarkets.com/reports/2180059/

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Drug Delivery in Oncology. From Basic Research to Cancer Therapy, 3 Volume Set
Web Address: http://www.researchandmarkets.com/reports/2180059/
Office Code: SCD2LP6G

Product Format
Please select the product format and quantity you require:

Quantity
Hard Copy (Hard Back): □ USD 536 + USD 57 Shipping/Handling

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: Mr □ Mrs □ Dr □ Miss □ Ms □ Prof □
First Name: ___________________________ Last Name: ___________________________
Email Address: * ___________________________
Job Title: ___________________________
Organisation: ___________________________
Address: ___________________________
City: ___________________________
Postal / Zip Code: ___________________________
Country: ___________________________
Phone Number: ___________________________
Fax Number: ___________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: __________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World