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~~Peptide Nanoparticles~~
~~(SaPNs): their Use in~~
~~Biomedical~~
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Applications Part 1

*DENDRIMERS AS
DRUG CARRIERS:
THINGS TO KNOW!*

Trastuzumab-grafted
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positive *E. Fernández-
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Inauguration:

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Arotiba Tissue

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macromolecules

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applications. This
book explores the use
of dendrimers for a
variety of potential
functions, including

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antiamyloidogenic
agents, drug delivery
systems, nucleic acid
and RNA delivery
vectors and to
produce hybrid fibre
platforms for
nanotechnology.

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In summary, dendrimers have achieved significant success in a variety of biomedical applications. While the use of dendrimers in the clinic has still not reached the success of linear polymers , this fact is attributed to the relative newness of this field and the

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difficulties encountered with the synthesis of these materials at the kilogram and larger scales under GMP conditions.

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applications of
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undergraduates and
“asks” and
“answers” many of
the questions that
arise in our first
discussions of
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applications of
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on the recent use of c

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based dendrimers in
biomedicine. Since its
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time in 1834,
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has been an
important compound
of phosphorus
chemistry as a
scaffold, and a large
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derivatives have been

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synthesized and
applied in various
fields such as biology,
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nanomaterials, etc.

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This book explores the use of dendrimers for a variety of potential functions, including antiamyloidogenic agents, drug delivery systems, nucleic acid and RNA delivery vectors and to produce hybrid fibre platforms for nanotechnology.

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COST action TD0802,
the main objective of
which is to improve
existing therapies and
find new drugs based
on dendrimers, the
book will provide
comprehensive
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Coverage includes
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Studies of dendrimers and dendrons, anionic dendrimer polymers, cationic carbosilane dendrimers and self-assembled multivalent dendrimers. Providing clear indications for future research and applications, this text will appeal to chemists, biologists and materials scientists, working in

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The volume begins with an introduction to dendrimers, summarizing dendrimer applications and the striking features of dendrimers. It goes on to present the details of usual

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properties, structure, classification, and methods of synthesis, with relevant examples. The toxicity of dendrimers is also discussed. The chapter authors provide an exhaustive amount of information about dendrimers and their biomedical applications, including biocompatibility and

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toxicity aspects, a very useful feature. This informative volume will be a valuable resource that will help readers to create products derived from dendrimers and navigate through the regulatory, manufacturing, and quality control hurdles. It will be an

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important resource for
researchers,
scientists, upper-level
students, and industry
professionals.

The unique physico-chemical properties of cationic polymers and their ability to be easily modified make them attractive for many biological applications. As a

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result there is a vast amount of research focussed on designing novel natural or synthetic cationic polymers with specific biological functionality. Cationic Polymers in Regenerative Medicine brings together the expertise of leading experts in the field to provide a

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overview of the recent
advances in cationic
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including poly(L-lysine), Poly(N,N-dimethylaminoethyl methacrylate) and cationic triazine dendrimers as well as cationic polymer-coated micro- and nanoparticles and cationic cellulose and chitin nanocrystals.

Applications discussed in the book include drug and gene

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inflammation as well
as gene therapy.
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postgraduates and
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broad aspects of the

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topics covered are suitable for polymer chemists interested in the fundamentals of the materials systems as well as pharmaceutical chemists, bioengineering and medical professionals interested in their applications.

This book provides

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the field with a much-needed fundamental overview of the science, addressing the chemistry of a broad range of biomaterial types, and their applications in the biomedical industry.

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for newcomers and
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Dendrimers, which
are hyperbranched
synthetic
macromolecules,
have attracted
researchers'
increasing interest

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Over the last three decades owing to their numerous properties, in particular, in the fields of biology and nanomedicine. This book is an up-to-date collection of the most recent achievements in the use of dendrimers in nanomedicine, exemplified by

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biomaterials, carriers
of biological entities,
and anti-inflammatory
drugs; in bioimaging;
and against prion
diseases,

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dendrimers with other
types of dendrimers.
Supplemented with
numerous references
and abundant
illustrations, the book
opens new
perspectives for the
researchers working
on dendrimers.

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With contributions from many of the world's leading scientists in the field of dendritic research and development, *Dendrimers and Other Dendritic Polymers* provides a comprehensive review of this rapidly expanding and exciting new field of polymer science. Of

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