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therapy is a cancer

treatment that is still

in the early stages of

research. What genes

are. Genes are coded

messages that tell

cells how to make

proteins. Proteins are

the molecules that

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and suppressor gene  
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immunotherapy,  
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therapy, and the  
genetic modification  
of stem cells.

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Drug Administration  
(FDA) has  
recommended that



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gene therapy  
treatments for an  
inherited immune  
disorder are limited  
to those who have no  
alternative. The move  
follows news that a  
third child in a similar  
French trial has  
developed  
leukaemia.

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under review

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following third  
cancer ...  
T-SIGn gene therapy  
products are  
“armed” through  
the addition of genes  
that cause the tumor  
to express  
combinations of  
biologics including  
antibodies, cytokines  
and other  
immunomodulatory  
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Treatment and  
Appointment of New  
Chief Medical Officer  
5th March 2020 Kate  
Wright News PsiOxus,  
the gene therapy for

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cancer company,  
today announced  
that it has started a  
clinical trial with  
NG-641, a four  
transgene tumor-  
microenvironment  
modifying cancer  
gene therapy.

PsiOxus Therapeutics  
Announces Clinical  
Trial with Third ...

The rapidly changing

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field of gene therapy promises a number of innovative treatments for cancer patients. Advances in genetic modification of cancer and immune cells and the use of oncolytic viruses and bacteria have led to numerous clinical trials for cancer therapy, with several progressing

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to late-stage product  
development.

Gene therapy for  
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Future of Gene  
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therapy is quite an

innovative  
technology which is  
developing and

advancing at a rapid  
pace. The use of gene

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therapies to create new medical procedures which when used alone or in combination with the currently available treatment (such as chemotherapy) will be able to target cancer and make it a manageable disease.

Gene Therapy in

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Cancer Treatment:  
Present and Future ...  
First, the addition of a  
synthetic gene gives  
the T cells a claw-like  
protein (called a  
receptor) that  
“ sees ” NY-ESO-1, a  
molecule on some  
cancer cells. Then  
CRISPR is used to  
remove three genes:  
two that can interfere  
with the NY-ESO-1



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receptor and another  
that limits the cells '   
cancer-killing  
abilities.

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How CRISPR Is  
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Changing Cancer  
From Preclinical  
Research and  
Treatment ..

Breast cancer is the  
most common cancer  
in women all over the  
world. Furthermore,  
up to one third of

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breast tumors  
develop metastases  
that are resistant to  
standard therapies.

Gene therapeutic  
strategies have been  
developed in order to  
specifically target  
cancer cells either  
directly or through  
the stimulation of  
antitumor immunity.

Viral gene therapy for  
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breast cancer:  
progress and  
challenges

A groundbreaking  
gene therapy could  
treat cancer patients  
by manipulating their  
immune system has  
'cured' more than a  
third of patients,  
scientists claim.

Gene therapy  
'extraordinary' at

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fighting blood cancer

...Cancer Third

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Trial with Third

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Cancer Gene Therapy

Treatment and

Appointment of New

Chief Medical Officer

05 Mar 2020

PsiOxus®

Therapeutics, Ltd.

(PsiOxus), the gene

therapy for cancer

company, today

announced that it has

started a clinical trial

with NG-641, a four

transgene tumor-

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microenvironment  
modifying cancer  
gene therapy, to  
cancer patients.

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Announces...

6/10/2014 Targeting  
Tumor Vasculature  
Using Adeno-

Associated Virus  
Phage Vectors

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Coding Tumor  
Necrosis Factor-  
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From Preclinical  
Nearly nine months  
Studies To  
Clinical  
Implementation  
later, more than a  
third showed no sign  
of the disease and  
more than half were  
still alive. The  
treatment uses gene



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therapy to prompt  
the patient 's blood  
cells to attack  
cancer....

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cancer drug appears  
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therapy has shown  
potential for treating  
platinum-resistant  
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recent study found  
ofranergene  
obadenovec (VB-111;  
VBL Therapeutics) to  
be well tolerated in  
more than 300  
patients with this  
cancer. 1 A first-in-  
class targeted  
therapy, VB-111 is  
administered by  
intravenous infusion  
once every 6 to 8  
weeks.

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Novel Gene Therapy  
Demonstrates  
Potential for Ovarian  
...  
Translational  
AAV gene therapy  
Approaches  
has broad  
From Preclinical  
therapeutic  
implications for a  
Clinical  
vast array of diseases.  
Implementation  
Some genetic  
diseases are caused  
by mutations in a  
single gene, while

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Others are a result of mutations in multiple genes, for example, cancer. Additionally, environmental factors, such as smoking and diet, can play a role in diseases.

Reducing barriers to mainstream gene therapy

T-SIGn gene therapy

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products are “armed” through the addition of genes that cause the tumor to express combinations of biologics including antibodies, cytokines and other immunomodulatory proteins. In effect, the T-SIGn viruses turn the tumor cells into “drug

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factories” to express  
combination gene  
therapy.

Translational

Approaches

The Second Edition of  
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Cancer provides  
crucial updates on  
the basic science and  
ongoing research in  
this field, examining  
the state of the art

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technology in gene therapy and its therapeutic applications to the treatment of cancer.

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Chapters emphasize the scientific basis of gene therapy using immune, oncogene,

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antisense, pro-drug activating, and drug resistance gene targets, while other chapters discuss therapeutic approaches and clinical applications.

This book is a valuable reference for anyone needing to stay abreast of the latest advances in gene therapy



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treatment for cancer.

Key Features \*

Provides in-depth  
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targeted systems and  
treatment strategies

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underlying cancer

biology necessary for  
understanding a

given therapeutic  
approach \*

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cytokines, and  
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with emphasis on  
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requirements for  
Studies To  
clinical  
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implementation \*  
Implementation  
Incorporates detailed  
illustrations of  
vectors and  
therapeutic  
approaches ideal for

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The three sections of this volume present currently available cancer gene therapy techniques. Part I describes the various aspects of gene delivery. In Part II, the contributors discuss strategies and targets

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for the treatment of cancer. Finally, in Part III, experts discuss the difficulties inherent in bringing gene therapy treatment for cancer to the clinic. This book will prove valuable as the volume of preclinical and clinical data continues to increase.

Gene therapy as a  
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treatment for cancer is at a critical point in its evolution. Exciting new developments in gene targeting and vector technology, coupled with results from the first generation of preclinical and clinical studies have led to the design and testing of new therapeutic

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approaches. The  
Third Edition of Gene  
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provides crucial  
updates on the basic  
and applied sciences  
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offers a  
comprehensive  
assessment of the  
field including the  
areas of suicide gene  
therapy, oncogene  
and suppressor gene

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targeting, immunotherapy, drug resistance gene therapy, and the genetic modification of stem cells.

Researchers at all levels of development, from basic laboratory investigators to clinical practitioners, will find this book to be instructive. Cancer

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gene therapy, like cancer therapy in general, is evolving rapidly, testing new concepts, targets and pathways, evoking new technologies, and passing new regulatory hurdles.

Its essence, however, has not changed: the hope and challenges of returning altered genes to normal,



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using targeted gene expression to alter the function of both tumor and microenvironment, and in some cases normal cells, and delivering functionally important genes to specific cell types to increase sensitivity to killing or to protect normal cells from

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cancer therapies. In some instances, gene therapy for cancer forms a continuum

from gene repair through the use of molecularly modified cells; the use of viral and non-viral vector based gene delivery to both tumor and tumor

microenvironment; the use of viral and

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gene based vaccines;  
and development of  
new gene-based  
therapeutics. The  
unique  
mechanistically  
chosen vector  
platforms are at the  
heart of this  
technology because  
they allow for direct  
and selective cell  
death and transient  
to sustained delivery

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of vaccine molecules  
or molecules that  
affect the  
microenvironment,  
vasculature, or the  
immune response.  
Explains the  
underlying cancer  
biology necessary for  
understanding  
proposed therapeutic  
approaches Presents  
in-depth description  
of targeting systems

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and treatment strategies Covers the breadth of gene therapy approaches including immunotherapeutic, drug resistance, oncolytic viruses, as well as regulatory perspectives from both the NCI and FDA

A complete

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Introduction and  
guide to the latest  
developments in  
cancer gene therapy-  
from bench to  
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comprehensively  
review the anticancer  
genes and gene  
delivery methods  
currently available for  
cancer gene therapy,  
including the transfer  
of genetic material

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into the cancer cells, stimulation of the immune system to recognize and eliminate cancer cells, and the targeting of the nonmalignant stromal cells that support their growth. They also thoroughly examine the advantages and limitations of the

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different therapies and detail strategies to overcome obstacles to their clinical implementation. Topics of special interest include vector-targeting techniques, the lessons learned to date from clinical trials of cancer gene therapy, and the



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regulatory guidelines  
for future trials.

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Noninvasive  
techniques to

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disease regression  
during the course of

From Preclinical

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Adenoviral Vectors

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for Gene Therapy,  
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provides detailed,  
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coverage of the gene  
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are based on the  
adenovirus that is  
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important tool in  
gene therapy. These  
exciting new  
therapeutic agents  
have great potential

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for the treatment of disease, making gene therapy a fast-growing field for research. This book presents topics ranging from the basic biology of adenoviruses, through the construction and purification of adenoviral vectors, cutting-edge

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vectorology, and the use of adenoviral vectors in preclinical animal models, with final consideration of the regulatory issues surrounding human clinical gene therapy trials. This broad scope of information provides a solid overview of the field, allowing the reader to gain a complete

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vectors in animal  
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cancer starts with  
understanding how it  
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malignant transformation and the pathogenesis and treatment of cancer.

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Gene therapy is becoming a promising technology for the management of many human diseases. Hereditary and acquired disorders can both be tackled using the technique of gene

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and efficient gene transfer vectors is of utmost importance in the progress of the field of gene therapy. Both viral and non-viral vectors are extensively discussed. A detailed chapter elaborates the problem of host immune rejection of transplanted donor cells or engineered

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tissue that can be avoided using the encapsulation of transgenic cells, thus avoiding the use of drugs that achieve immunosuppression.

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remarkable successes  
and some  
disappointing  
failures. Now in its  
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and Cell Therapy:  
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a discussion of  
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therapeutic  
strategies, exploring  
retroviral vectors and

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adenovirus vectors,  
as well as other  
therapeutic  
strategies. The  
middle section  
focuses on gene  
expression and  
detection, followed  
by an examination of  
various therapeutic  
strategies for  
individual diseases,  
including  
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disorders, cardiovascular conditions, cancer, diabetes, cystic fibrosis, neurological disorders, and childhood-onset blindness. The final section discusses recent clinical trials and regulatory issues surrounding the new technology. This compendium is

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assembled by noted  
molecular biologist  
and biochemist

Nancy Smyth

Templeton. Baylor  
College of Medicine  
and several other  
institutions have

used Dr.

Templeton ' s non-  
viral therapeutics in  
clinical trials for the  
treatment of lung,  
breast, head and

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neck, and pancreatic cancers, as well as Hepatitis B and C. She continues to work at the forefront of research in gene and cell therapies. Her contributions, as well as those contained in this volume, are sure to advance the state of the art of these revolutionary life-saving technologies.

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