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Advances in
molecular biology
over the last several
decades are being

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steadily applied to
our understanding of
the molecular
biology of cancer,
and these advances
in knowledge are
being translated into
the clinical practice of
oncology. This
volume explores
some of the most
exciting recent
advances in basic
research on the

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molecular biology of cancer and how this knowledge is leading to advances in the diagnosis, treatment, and prevention of cancer. * This series provides a forum for discussion of new discoveries, approaches, and ideas * Contributions from leading scholars and industry experts

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* Reference guide for
researchers involved
in molecular biology
and related fields

The study of the
biology of tumours
has grown to become
markedly
interdisciplinary,
involving chemists,
statisticians,
epidemiologists,
mathematicians,
bioinformaticians,

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and computer
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scientists alongside
biologists, Bedside
geneticists, and
clinicians. The Oxford
Textbook of Cancer
Biology brings
together the most up-
to-date
developments from
different branches of
research into one
coherent volume,
providing a

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comprehensive and
current account of
this rapidly evolving

field. Structured in
eight sections, the
book starts with a
review of the
development and
biology of multi-
cellular organisms,
how they maintain a
healthy homeostasis
in an individual, and
a description of the

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molecular basis of cancer development. The book then illustrates, as once cells become neoplastic, their signalling network is altered and pathological behaviour follows. It explores the changes that cancer cells can induce in nearby normal tissue, the

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new relationship
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established between
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them and the stroma,
and the interaction
between the immune
system and tumour
growth. The authors
illustrate the
contribution
provided by high
throughput
techniques to map
cancer at different
levels, from genomic

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sequencing to
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cellular metabolic
functions, and how
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information
technology, with its
vast amounts of data,
is integrated with
traditional cell
biology to provide a
global view of the
disease. The effect of
the different types of
treatments on the
biology of the

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neoplastic cells are explored to understand on the one side, why some treatments succeed, and on the other, how they can affect the biology of resistant and recurrent disease. The book concludes by summarizing what we know to date about cancer, and in

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what direction our understanding of cancer is moving. Edited by leading authorities in the field with an international team of contributors, this book is an essential resource for scholars and professionals working in the wide variety of sub-disciplines that make

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up today's cancer research and treatment community. It is written not only for consultation, but also for easy cover-to-cover reading. Cancer, which has become the second-most prevalent health issue globally, is essentially a malfunction of cell

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Understanding how
the intricate signaling
networks of cells and
tissues allow cancer
to thrive - and how
they can be turned
into potent weapons
against it - is the key
to managing cancer
in the clinic and
improving the
outcome of cancer
therapies. In their

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ground-breaking
textbook, the authors
provide a compelling
story of how cancer
works on the
molecular level, and
how targeted
therapies using
kinase inhibitors and
other modulators of
signaling pathways
can contain and
eventually cure it.

The first part of the

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book gives an
introduction into the
cell and molecular
biology of cancer,
focusing on the key
mechanisms of
cancer formation. The
second part of the
book introduces the
main signaling
transduction
mechanisms
responsible for
carcinogenesis and

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compares their
function in healthy
versus cancer cells. In

contrast to the
complexity of its
topic, the text is easy
to read. 32 specially
prepared teaching
videos on key
concepts and
pathways in cancer
signaling are
available online.

Aimed at both

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students and new
researchers, the
fourth edition of this
text provides a
concise yet
comprehensive
overview of cancer
biology, covering the
current status of both
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the Cancer Cell

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and modern***

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*cell and
molecular
biology of
prostate
cancer, as
well as novel
biomarkers,
inflammation,
centrosome
pathologies,
microRNAs,
cancer*

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initiation
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biomarkers,
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initiation and
genetics,
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***dysfunctions
and apoptosis,
cancer stem
cells,
angiogenesis
and
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and treatment
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including
clinical***

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books comprehe
nsively
addressing the**

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Stategies, the***

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the most
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including
analysis of
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biopsies,
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**of
nanoparticle
probes and
peptide-based
radiopharmaceu
ticals for
detection,
early
diagnosis and
treatment of
prostate
cancer. Taken**

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***together,
these volumes
form one
comprehensive
and invaluable
contribution
to the
literature.
Hyaluronan
biology is
being
recognized as***

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an important
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regulator of
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cancer

progression.
Paradoxically,
both
hyaluronan
(HA) and hyalu
ronidases, the
enzymes that
eliminate HA,
have also been

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**correlated
with cancer
progression.**

***Hyaluronan, a
long-chain
polymer of the
extracellular
matrix, opens
up tissue
spaces through
which cancer
cells move and***

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***metastasize.
It also
confers
motility upon
cells through
interactions
of cell-
surface HA
with the
cytoskeleton.
Embryonic
cells in the***

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***process of
movement and
proliferation
use the same
strategy. It
is an example
of how cancer
cells have
commandeered
normal
cellular
processes for***

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their own
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survival and
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spread. There
are also
parallels
between cancer
and wound
healing,
cancer
occasionally
being defined
as a wound

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***that does not
heal. The
growing body
of literature
regarding this
topic has
recently
progressed
from
describing the
association of
hyaluronan and***

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***hyaluronidase
expression
associated
with different
cancers, to
understanding
the mechanisms
that drive
tumor cell
activation,
proliferation,
drug***

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**resistance,
etc. No one
source,
however,
discusses
hyaluronan
synthesis and
catabolism, as
well as the
factors that
regulate the
balance. This**

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***book will
offer a
comprehensive
summary and
cutting-edge
insight into
Hyaluronan
biology, the
role of the HA
receptors, the
hyaluronidase
enzymes that***

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***degrade HA, as
well as HA
synthesis
enzymes and
their
relationship
to cancer. *
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relationship***

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leading
international
authorities on
this subject,
from
laboratories
that focus on
the
investigation

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***of hyaluronan
in cancer
initiation,
progression,
and
dissemination***

**** Focuses on
understanding
the mechanisms
that drive
tumor cell
activation,***

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describes the
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biology and
how it is
shaping modern
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research. This
book begins by
introducing
the current
state of the
art knowledge,***

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that have
emerged from
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expression
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datasets.
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tumors are
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microRNAs that
cause
pancreatic**

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cancer
resistance are
also
highlighted.
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important
network
evaluation
methodologies
related to
pancreatic
cancer related
microRNAs
targetome.
There are

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critical
aspects of the
evolving yet
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field of
pancreatic
cancer stems
cells. The
work concludes
by discussing

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models, animal
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samples,

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paradigms, and
enhancing
comprehension
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pharmacology
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the
development of
new
therapeutic
strategies
rely on our
ability to
convert
biological and
clinical
questions into
mathematical m

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**odels-integrat
ing our
knowledge of
tumour
progression
mechanisms
with the
tsunami of
information
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explores how
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systems
biology can***

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**help fight
cancer in
three**

**essential
aspects:**

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tumours**

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targets**

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and software,
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reading. Some

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**chapters also
contain
exercises.**

**Figures from
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data analysis
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**Cell
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Tumor

*progression is
driven by
mutations that
confer growth
advantages to
different
subpopulations*

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of cancer
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cells. As a
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tumor grows,
these
subpopulations
expand,
accumulate new
mutations, and
are subjected
to selective
pressures from
the

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environment,
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including
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anticancer
interventions.
This process,
termed clonal
evolution, can
lead to the
emergence of t
herapy-
resistant
tumors and

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*poses a major
challenge for
cancer*

*eradication
efforts.*

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experts in the
field, this
collection
from Cold
Spring Harbor*

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examines

cancer
progression as
an
evolutionary
process and
explores how
this way of
looking at
cancer may

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*lead to more
effective
strategies for
managing and
treating it.
The
contributors
review efforts
to
characterize
the subclonal
architecture*

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*and dynamics
of tumors,
understand the
roles of
chromosomal
instability,
driver
mutations, and
mutation
order, and
determine how
cancer cells*

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respond to
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selective
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pressures
imposed by
anticancer
agents, immune
cells, and
other
components of
the tumor micr
oenvironment.
They compare

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cancer
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evolution to
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organismal
evolution and
describe how
ecological
theories and
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models are
being used to
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complex

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dynamics
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between a
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tumor and its
microenvironme
nt during
cancer
progression.
The authors
also discuss
improved
methods to
monitor tumor

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evolution
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(e.g., liquid
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biopsies) and
the
development of
more effective
strategies for
managing and
treating
cancers (e.g.,
immunotherapie
s). This

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volume will
therefore
serve as a
vital
reference for
all cancer
biologists as
well as anyone
seeking to
improve
clinical
outcomes for

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patients with
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cancer.
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As long-term
cancer
survival
becomes a
widely-shared
experience,
the quality of
life of people
living with
and beyond a

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cancer
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diagnosis is
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increasingly
important.

Optimising the
prevention and
treatment of
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psychiatric
consequences
of certain
tumours and

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treatments is
now central to
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disorders
experienced by
people with
cancer.

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patients
living with,

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Cancer and
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resource for

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psychiatrists,
liaison

psychiatrists,
neuropsychiatr
ists,

Oncologists, n
euro-

oncologists,

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palliative
medicine
doctors and
drug
development
scientists.
It has been
realized for
many years
that cancer
has a genetic
component and

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*at the level
of the cell it
can be said to
be a genetic
disease. In
1914, Boveri
suggested that
an aberration
in the genome
might be
responsible
for the*

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origins of
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cancer. This
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was

*subsequently
supported by
the evidence
that cancer,
or the risk of
cancer, could
be inherited;
that mutagens
could cause*

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*tumors in both
animals and
humans; and
that tumors
are monoclonal
in origin,
that is, the
cells of a
tumor all show
the genetic ch
aracteristics
of the*

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original
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transformed
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cell. It is
only in recent
years that the
involvement of
specific genes
has been
demonstrated
at the
molecular
level.

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revised and
covers
heredity
cancer,**

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increased
study of
childhood
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discusses the
state of
progress in*

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*the molecular
biology of
cancer. The
book describes
the effects of
anticancer
agents on
nucleolar ultr
astructure;
the role of
chromosomes in
the causation*

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progression of
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cancer and
leukemia; the
replication,
modification,
and repair of
DNA. The text
also describes
the metabolism
and
utilization of

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*messenger RNA
and other high
molecular*

*weight RNA and
low molecular
weight nuclear
RNA; the chara
cteristics,
structures,
and functions
of nuclear
proteins; and*

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*the process of
protein
synthesis.*

*Nucleotides
are reviewed
with regard to
its
biosynthesis,
inhibition of
synthesis, and
development of
resistance to*

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*tackles the
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nogenesis; the
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correlation*

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concept. The
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text also
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demonstrates
phenotypic
variability as
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manifestation
of
translational
control; and
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Molecular

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*biologists,
virologists,
pathologists,*

cell

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