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Biology Genetics  
Molecular  
Medicine

**Cell  
Biology  
Genetics  
Molecular  
Medicine**

**This third, fully  
revised, edition  
brings the reader  
right up to date**

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Biology Genetics

Molecular

Medicine

**with the recent  
advances made in  
the study of disease  
at the molecular  
and cellular level,  
and examines the  
exciting new  
possibilities for  
treatment. Its clear  
and  
straightforward  
style will give**

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Biology Genetics

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**doctors, medical**

**students, and**

**researchers**

**valuable insight**

**into molecular**

**medicine and its**

**applications.**

**Cell Biology,**

**Genetics,**

**Molecular Biology,**

**Evolution and**

**Ecology Evolution**

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Molecular  
Medicine

**and EcologyS.**

**Chand Publishing**

**Molecular medicine  
is the application of  
gene or DNA based  
knowledge to the  
modern practice of  
medicine. This  
book provides  
contemporary  
insights into how  
the genetic**

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**revolution is  
influencing medical  
thinking and  
practice on a broad  
front including  
clinical medicine,  
innovative  
therapies and  
forensic medicine.  
Extensively revised  
just after the  
completion of the**

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**Human Genome  
Project, it provides  
the latest in  
molecular medicine  
developments The  
only book in  
Molecular  
Medicine that has  
undergone three  
editions Current  
practice as well as  
future**

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developments  
identified Extensive

tables, well

presented figures -

resources for

further

understanding

Volume 1.

Current Issues in

Cell, Molecular

Biology & Genetics

Cell Cycle

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**Synchronization:**

**Methods and**

**Protocols**

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**Guide to Yeast**

**Genetics and**

**Molecular and Cell**

**Biology**

**Encyclopedia of**

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Biology Genetics

Molecular

**and Molecular**

Medicine

**Medicine, Mass**

**Spectrometry High**

**Speed DNA**

**Fragment Sizing to**

**Plasma**

**Lipoproteins**

**This book is suitable**

**for undergraduate**

**medical students, as**

**part of their basic**

**sciences training, but**

**is also relevant to interested under- and postgraduate science and engineering students. There is a special focus on the application of molecular medicine in Africa and in developing countries elsewhere.**

**This is an**

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**exceptionally  
comprehensive, color-**

**illustrated clinical**

**reference work of**

**great authority**

**thoroughly covering**

**the basic science and**

**clinical applications**

**of molecular biology**

**in reproductive**

**medicine. It is**

**written clearly and**

**definitively for**

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practicing physicians

needing a reader-

friendly textbook on

this new and

important area of

clinical practice. Its

noted authors are

among the world s

leading experts in

molecular and cell

biology,

pharmacology,

human and clinical

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genetics, obstetrics  
and gynecology and

women's health,

reproductive

endocrinology and

fertility, physiology,

and medical ethics.

The book contains 23

chapters in six

sections on

molecular genetics,

cell biology, hormone

syntheses and action

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and signal  
transduction, gamete  
and embryo biology,  
clinical genetics, and  
the genetics of  
female and male  
reproductive  
dysfunction.

The concept of  
molecular medicine  
dates back to Linus  
means that there are  
many new

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**opportunities and  
challenges Pauling,  
who in the late 1940s  
and early 1950s  
generalized for  
clinical medicine.**

**One of the effects of  
the completion of  
from the ideas that  
came from the study  
of the sickle cell the  
Human Genome  
Project is the**

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Molecular

Medicine  
**increasing  
application of**

**hemoglobin**

**molecule. With the**

**first cloning of**

**human genes the**

**fields of molecular**

**biology and genetics**

**to the und- about**

**1976, molecular**

**genetics took the**

**molecular perspec-**

**standing and**



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Biology Genetics  
Molecular  
**management of  
common diseases.**

**Assimilative on  
disease to the level of  
DNA. The term  
molecular medicine of the  
new developments  
since the first edition  
has been widely  
achieved wide  
currency in the 1980s  
with the ably  
accomplished by Drs.**

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**Runge and Patterson  
with the assignment  
of this designation to  
journals, at least one  
soci- help of their  
many knowledgeable  
authors. ety,  
institutes, and  
academic divisions  
of departments of in-  
As was evident in the  
first edition,  
molecular genetics is**

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Internal medicine.

Undoubtedly,

molecular medicine

has been involved in

every specialty of

medicine. A

recurrent theme

abetted by the

Human Genome

Project, which has

aided in that edition,

perhaps even more

striking in the

**present one, greatly  
in the molecular  
characterization of  
disease.**

**Neurofibromatosis  
type 1 (NF1) is a  
common autosomal  
dominantly  
inherited, tumour  
predisposition  
syndrome affecting  
1/3,000-4,000  
individuals**

**worldwide. This inherited disorder results from the mutational inactivation of the NF1 gene on human chromosome 17. The NF1 gene contains 61 exons that give rise to 12kb mRNA encoding neurofibromin. The 327kDa (2,818 amino**

**acid) neurofibromin protein is expressed in most tissues and has a number of alternative isoforms.**

**Neurofibromin is a tumour suppressor protein and down-regulates cellular Ras. Increased active Ras-GTP levels also stimulate the important**

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**PI3K/AKT/mTOR  
signalling pathway**

**that protects cells  
from apoptosis. The  
major clinical  
features of NF1  
include multiple café-  
au-lait macules,  
skinfold freckles, iris  
Lisch nodules, and  
neurofibromas. The  
diagnostic criteria  
for clinical diagnosis**

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Biology Genetics  
Molecular  
Medicine  
**have been well  
established.**

**However, there are a  
small number of  
cases in which the  
diagnosis is not  
certain. The  
germline mutation  
rate for the NF1 gene  
is 10-fold higher  
than that observed  
for most other  
inherited diseases.**



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**Using a combination of different techniques, almost 95% of germline mutations can be detected. To date, only two firm genotype phenotype correlations have been reported. NF1 phenotype exhibits large variations within a family,**

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**evidence for  
modifying loci  
regulating the  
expression of an NF1  
gene is beginning to  
emerge. We also are  
gaining knowledge  
on the molecular  
mechanisms  
associated with the  
development of  
different types of  
tumours. It is**

**encouraging that the results of recent laboratory and clinical research are finally being translated into clinical trials. With the availability of high-throughput technologies, sophisticated animal models, and multi-centre clinical trials,**

**the future for NF1 sufferers is looking optimistic. This book aims to provide an overview of the genetic and clinical aspects of NF1 and its role in both NF1-associated and sporadic tumour development. It emphasizes the recent developments**

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**in this field and**

**some of the**

**promising on-going**

**clinical trials.**

**Reviews in Cell**

**Biology and**

**Molecular Medicine**

**BRS Biochemistry,**

**Molecular Biology,**

**and Genetics**

**An Introduction to**

**Molecular Medicine**

**and Gene Therapy**

*Page 29/212*

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Biology Genetics  
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**Molecular Pathology**  
Medicine  
**An Integrated**

**Textbook**

*This reference work gives a complete overview of the different stages of drug development using a translational approach. The book is*

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*structured in  
different parts,  
following the  
different stages  
in drug  
development.*

*Almost half of  
the work is  
dedicated to  
core of drug  
discovery using  
a translational  
approach, the  
identification*

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*of appropriate  
targets and  
screening  
methods for the  
identification  
of compounds  
interacting with  
these targets.  
The rest of book  
covers the whole  
downstream  
pipeline after  
the  
identification*



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*of lead  
compounds, such  
as  
bioavailability  
issues,  
identification  
of appropriate  
drug delivery  
venues,  
production and  
scaling issues  
and preclinical  
trials. As has  
been the case*

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*with other works  
in the*

*encyclopedia,  
the book is made  
up of long,  
comprehensive  
and*

*authoritative  
chapters,*

*written by  
outstanding  
researchers in  
the field.*

*This six volume*

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the most*

*comprehensive,  
detailed*

*treatment of  
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provides a*

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molecular basis  
of life, with a  
focus on  
molecular  
medicine.*

*Genetic  
screening, gene  
therapy,  
structural  
biology, and the  
technology and  
findings of the*

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*commonly used  
terms in  
molecular  
biology.*

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the introductory  
illustrations  
found in each  
volume, these  
definitions  
enable readers  
to understand  
articles without  
referring to a*

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critical points

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information.

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*focus on the*

*importance of*

*cell biology in*

*medicine and*

*industry. A new*

*feature,*

*“BrainBoxes”*

*describes some*

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*of the key  
people who  
created the  
current  
understanding of  
Cell Biology.*

*The book has  
been thoroughly  
revised and  
updated since  
the last edition  
and includes:*

*Thorough  
introduction to*

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Molecular,  
cells and  
tissues,

membranes,

organelles, and

the structure of

DNA and genetic

code

Explorations of

DNA as a data

storage medium,

transcription

and the control

of gene

expression, and

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*recombinant DNA*

*and genetic*

*engineering*

*Discussion of*

*the manufacture*

*of proteins,*

*protein*

*structure, and*

*intracellular*

*protein*

*trafficking*

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*ions and*

*voltages,*

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and*

*extracellular  
signaling*

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the cytoskeleton  
and cell  
movement*

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cell division  
and apoptosis*

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students seeking*



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one-stop*

*reference on  
cell biology,*

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*also an ideal  
reference for*

*pre-med  
students.*

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'Updated*

*Edition' now  
comes with added*

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students or  
recent graduates  
- those who have  
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advisors, the  
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which exactly  
meet your needs  
and you know you  
can trust. The  
subject of cell  
biology and  
genetics has*

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Medicine  
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essential to the  
medical*

*curriculum and  
to modern*

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is widely feared  
by students.*

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as easy to  
understand and  
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field -  
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human genome  
project and spin-  
offs such as the  
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ethical issues.  
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articles and  
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thus the most  
comprehensive  
and most detailed*

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cell biology and  
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today -- designed  
in collaboration  
with a founding  
board of 10 Nobel  
laureates. As such,  
the Encyclopedia  
provides a single-*

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the molecular*

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focus on molecular  
medicine,*

*discussing in detail  
the latest*

*advances of the  
post-genomic era.*

*Each of the  
approximately 425  
articles is written*

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*as a self-contained treatment, beginning with an outline and a key word section plus definitions. Peer-reviewed, they are written in a review-like style, complemented by an extensive bipartite*

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*introductory  
illustrations found  
in each volume,  
the articles are  
comprehensible for  
readers at every  
level without  
resorting to a  
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textbook, or other  
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readership  
including students  
and qualified  
researchers... .  
...articles...set-up  
facilitates easy  
reading and rapid  
understanding.  
...overwhelming*



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*and for laboratory*

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leading  
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updated edition  
includes Focuses  
on Relevant  
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that integrate*

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*provided deal with topics such as protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE.*

*The text also includes updated chapters on Genomics and*

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Proteomics,  
Bacterial Genetics  
and Molecular  
Evolution and  
RNA. An updated  
ancillary package  
includes  
flashcards, online  
self quizzing,  
references with  
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text is designed for

undergraduate  
students taking a  
course in

Molecular Biology  
and upper-level  
students studying

Cell Biology,  
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and understand  
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recent advances made in  
the study of disease at  
the molecular and  
cellular level, and  
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treatment. Leaders in the field explain the techniques of molecular and cell biology, which are being applied in specialities as far apart as cardiology and diabetes, and describe their implications for medicine. Subjects covered include: methods used in molecular medicine, the polymerase chain

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biology, molecular  
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diagnosis, and gene  
therapy. The should  
enable doctors, students  
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basic understanding of  
the subject and some  
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*molecular medicine-*

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*manual describes the*

*basic approaches to the*

*broad range of actual*

*and potential genetic-*

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*commercial implications*

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*sections focus on the  
importance of cell*

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industry today. This text  
is a completely revised,  
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enhanced revision of  
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*Molecular Medicine is  
the application of genetic  
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Factors: Vital

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provides a

unique platform

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factors play in multiple systems throughout the body. Leading international authorities provide their knowledge and insights to offer a novel perspective for translational medicine that highlights the

role of forkhead  
genes and  
proteins that  
may have the  
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for the  
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for a broad  
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transcription factors can limit as well as foster disease progression depending upon the cellular environment. The presentation and discussion of innovative studies and especially those that examine

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yet concise  
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Throughout the  
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topics are  
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can also refer  
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Medicine  
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which analyzes  
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to diagnose  
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testing is a  
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test that  
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abnormalities  
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and disease.

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inflammatory,**

**neuropsychiatric  
disorders, and  
many more**

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basis of human  
disease becomes  
better**

**characterized, and  
the implications  
for understanding  
the molecular**

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**becomes realized**

**through improved**

**diagnostics and**

**treatment,**

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**comprehensive**

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**mechanisms**

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**undergraduates).**

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residents and  
other postdoctoral  
fellows that desire  
to advance their  
understanding of  
molecular  
mechanisms of  
disease beyond  
what they learned  
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this textbook is  
useful as a  
reference book for  
practicing basic  
scientists and  
physician  
scientists that  
perform disease-  
related basic  
science and  
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information**

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molecular basis of  
various human  
diseases and  
disease states.**

**Explores the  
principles and  
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Medicine  
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disease, and how  
the molecular  
pathogenesis of  
disease parallels  
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