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Life

***Biology In
Context
The
Spectrum
Of Life***

This thesis is a
contribution to
feminist
laboratory
studies and a

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critical
engagement
with the natural
sciences, or
more precisely
research on the
biochemical
workings and
deadly relations
of Alzheimer's
disease
emanating from

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a year of field
work in a
Drosophila fly
lab. The natural
sciences have
been a point of
fascination
within the field
of gender
studies for
decades. Such
sciences

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produce
knowledge on
what gets to
count as nature
and natural,
healthy or sick,
normal or not,
and they have
done it with
great societal
authority and
impact

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throughout

European
modernity.

However,
feminist
technoscience
scholars argue
that science and
knowledge is
socially
produced, and
political too.

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Life

Concepts such as nature, animal, human, body, sex, and life itself are not simply given natural realities but phenomena processed through the naturecultures of the

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laboratory.

Situated within
such theoretical
and
methodological
approaches, this
thesis wonders
how scientific
facts about
Alzheimer's
disease are
made in the lab

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today. What kinds of realities, bodies and ethico-political concerns are enacted? Who gets to live and who gets to die in everyday laboratory practices?

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Theoretically,
the thesis is
grounded,
particularly,
within Karen
Barad's agential
realism and
posthumanist
performativity,
and as such it
accounts for
human and

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nonhuman
entanglements
through which
AD is performed
in the lab in
relational ways.
In other words,
the thesis
explores how AD
is enacted in the
bodies of
transgenic fruit

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flies (*Drosophila melanogaster*), as these flies embody the disease, live and die with it. Last but not least, the thesis explores the materialities of death, dying, embodiment

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and biological
waste in a
biochemistry lab
as constitutive
parts of the
produced
knowledge
about AD.

The growth in
the
Bioinformatics
and

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Computational
Biology fields
over the last few
years has been
remarkable and
the trend is to
increase its
pace. In fact, the
need for
computational
techniques that
can efficiently

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handle the huge amounts of data produced by the new experimental techniques in Biology is still increasing driven by new advances in Next Generation Sequencing,

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several types of
the so called
omics data and
image
acquisition, just
to name a few.
The analysis of
the datasets
that produces
and its
integration call
for new

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algorithms and
approaches
from fields such
as Databases,
Statistics, Data
Mining, Machine
Learning,
Optimization,
Computer
Science and
Artificial
Intelligence.

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Within this scenario of increasing data availability, Systems Biology has also been emerging as an alternative to the reductionist view that dominated biological

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research in the last decades. Indeed, Biology is more and more a science of information requiring tools from the computational sciences. In the last few years, we have seen

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the surge of a new generation of interdisciplinary scientists that have a strong background in the biological and computational sciences. In this context, the

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interaction of
researchers
from different
scientific fields
is, more than
ever, of
foremost
importance
boosting the
research efforts
in the field and
contributing to

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the education of
a new
generation of
Bioinformatics
scientists.

PACBB'13 hopes
to contribute to
this effort
promoting this
fruitful
interaction.

PACBB'13

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technical
program
included 19
papers from a
submission pool
of 32 papers
spanning many
different sub-
fields in
Bioinformatics
and
Computational

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Biology.

Therefore, the conference will certainly have promoted the interaction of scientists from diverse research groups and with a distinct background (computer

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scientists,
mathematicians,
biologists). The
scientific
content will
certainly be
challenging and
will promote the
improvement of
the work that is
being developed
by each of the

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participants.
Principles of
Bone Biology is
the essential
resource for
anyone involved
in the study of
bones. It is the
most
comprehensive,
complete, up-to-
date source of

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information on all aspects of bones and bone biology in one convenient source. Written and published in less than one year, it will become an indispensable resource for any

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scientific or
medical library.

This, second
edition, details
countless
advances over
the past five
years, both by
updating old
chapters and
providing
additional

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material. It takes the reader from the basic elements of fundamental research to the most sophisticated concepts in therapeutics. The most current and

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timely source of
information
about the
biology and
pathology of
bone Provides
succinct
coverage of the
subject
Contributors
include over 200
of the most

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respected

researchers in
the field

Extensive table
of contents and
index for easy
reference Easy-
to-read and
highly
informative to
both the
newcomer and

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the initiated to
the field Spans
the spectrum
from molecular
biology to in
vivo
pharmacology
Complete
bibliography
with each entry
fully referenced
for additional

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background
reading First
edition was
selected by
Doody
Publishing as
one of the 250
Best Health
Science books
published in
1996

This book

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concisely
reviews our
current
understanding
of hypoxia,
molecular
targeting, DNA
repair, cancer
stem cells, and
tumor
pathophysiology
, while also

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discussing novel strategies for putting these findings into practice in daily clinical routine. Radiotherapy is an important part of modern multimodal cancer treatment, and

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the past several years have witnessed not only substantial improvements in radiation techniques and the use of new beam qualities, but also major strides in our understanding

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of molecular
tumor biology
and tumor
radiation
response.

Against this
backdrop, the
book highlights
recent efforts to
identify
reasonable and
clinically

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applicable
biomarkers
using broad-
spectrum tissue
microarrays and
high-throughput
systems biology
approaches like
genomics and
epigenomics. In
particular, it
describes in

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detail how such
molecular
information is
now being
exploited for
diagnostic
imaging and
imaging
throughout
treatment using
the example of
positron

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emission
tomography. By
discussing all
these issues in
the context of
modern
radiation
oncology, the
book provides a
broad, up-to-
date overview of
the molecular

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aspects of
radiation

oncology that
will hopefully
foster its further
optimization.

Plant Biology for
Cultural
Heritage

Full Spectrum
Cell & Molecular
Biology in

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The Spectrum Of
Context
Singular
Spectrum
Analysis
The Spectrum of
Life
Biology in
Context for
Cambridge
International AS
and A Level
Discover new

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approaches to
promote a viable
forest industry
while protecting
non-timber values!
Frontiers of Forest
Biology:
Proceedings of the
1998 Joint Meeting
of the North
American Forest
Biology Workshop
and the Western

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Forest Genetics

Association gives you significant new insights on current initiatives in forest biology. Because the field is changing rapidly, you need to keep aware of current trends, as the emphasis in forest research shifts from

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productivity-based goals to sustainable development of forest resources. In this volume, you will find a comprehensive summary of the state of the art of forest science in North America. Whether your focus is on genetics or on

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the environmental aspects of forest science, plant physiology, or silviculture, you will find helpful chapters by practitioners as well as cutting-edge research by scientists. This integrated approach is unique

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in the field. Based on the 1998 Joint Meeting of the North American Forest Biology Workshop and the Western Forest Genetics Association, *Frontiers of Forest Biology* addresses changing priorities in forest resource

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management. This important book contains fascinating research studies, complete with tables and diagrams, on topics such as biodiversity research, the productivity of commercial species, conserving adaptive variation

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in forest ecosystems, and the effect of harvesting trees on nutrient leaching. The book maps the frontiers of this fast-changing science with chapters on: the social, biological, and industrial context of forest biology new

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directions for
research into
genetics,
physiology, plant
silviculture, and
conservation the
impact of genetics
on sustainable
forestry the effects
of cold and disease
on plant physiology
regeneration of
various species

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after logging new
species adapted for
agroforestry the
impact and
management of
exotic weeds
Frontiers of Forest
Biology offers solid
information on a
broad spectrum of
topics and suggests
fresh avenues for
your investigations

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Life
in all aspects of
forest biology.

A thought-
provoking
exploration of
deleterious
mutations in the
human genome and
their effects on
human health and
wellbeing Despite
all of the elaborate
mechanisms that a

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cell employs to handle its DNA with the utmost care, a newborn human carries about 100 new mutations, originated in their parents, about 10 of which are deleterious. A mutation replacing just one of the more than three billion

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Life
nucleotides in the
human genome
may lead to
synthesis of a
dysfunctional
protein, and this
can be inconsistent
with life or cause a
tragic disease.

Several percent of
even young people
suffer from
diseases that are

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Life

caused, exclusively
or primarily, by
prei½]existing
and new mutations
in their genomes,
including both a
wide variety of
genetically simple
Mendelian diseases
and diverse
complex diseases
such as birth
anomalies,

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Life

diabetes, and
schizophrenia.

Milder, but still
substantial,
negative effects of
mutations are even
more pervasive. As
of now, we possess
no means of
reducing the rate at
which mutations
appear
spontaneously.

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Life
However, the recent flood of genomic data made possible by next-generation methods of DNA sequencing, enabled scientists to explore the impacts of deleterious mutations on humans with previously

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Life

unattainable
precision and begin
to develop
approaches to
managing them.

Written by a
leading researcher
in the field of
evolutionary
genetics, *Crumbling
Genome* reviews
the current state of
knowledge about

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deleterious mutations and their effects on humans for those in the biological sciences and medicine, as well as for readers with only a general scientific literacy and an interest in human genetics. Provides an extensive

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introduction to the
fundamentals of
evolutionary
genetics with an
emphasis on
mutation and
selection Discusses
the effects of pre-
existing and new
mutations on
human genotypes
and phenotypes
Provides a

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comprehensive
review of the
current state of
knowledge in the
field and considers
crucial unsolved
problems Explores
key ethical,
scientific, and social
issues likely to
become relevant in
the near future as
the modification of

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human germline
genotypes becomes
technically feasible
Crumbling Genome
is must-reading for
students and
professionals in
human genetics,
genomics,
bioinformatics,
evolutionary
biology, and
biological

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anthropology. It is certain to have great appeal among all those with an interest in the links between genetics and evolution and how they are likely to influence the future of human health, medicine, and society.

Scientific advances

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over the past
several decades
have accelerated
the ability to
engineer existing
organisms and to
potentially create
novel ones not
found in nature.
Synthetic biology,
which collectively
refers to concepts,
approaches, and

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tools that enable the modification or creation of biological organisms, is being pursued overwhelmingly for beneficial purposes ranging from reducing the burden of disease to improving agricultural yields

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to remediating pollution. Although the contributions synthetic biology can make in these and other areas hold great promise, it is also possible to imagine malicious uses that could threaten U.S. citizens and military personnel. Making

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informed decisions
about how to
address such
concerns requires a
realistic
assessment of the
capabilities that
could be misused.
Biodefense in the
Age of Synthetic
Biology explores
and envisions
potential misuses of

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synthetic biology.

This report develops a framework to guide an assessment of the security concerns related to advances in synthetic biology, assesses the levels of concern warranted for such advances, and

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identifies options that could help mitigate those concerns.

The Handbook of Communication Science and Biology charts the state of the art in the field, describing relevant areas of communication studies where a

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biological approach
has been
successfully
applied. The book
synthesizes
theoretical and
empirical
development in this
area thus far and
proposes a
roadmap for future
research. As the
biological approach

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to understanding communication has grown, one challenge has been the separate evolution of research focused on media use and effects and research focused on interpersonal and organizational communication,

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Life
often with little
intellectual
conversation
between the two
areas. The
Handbook of
Communication
Science and Biology
is the only book to
bridge the gap
between media
studies and human
communication,

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spurring new work
in both areas of
focus. With
contributions from
the field's foremost
scholars around the
globe, this unique
book serves as a
seminal resource
for the training of
the current and
next generation of
communication

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scientists, and will
be of particular
interest to media
and psychology
scholars as well.

A New Tool in Time

Series Analysis

Physics of NMR

Spectroscopy in

Biology and

Medicine

The Science of

Male, Female, and

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Intersex

Crumbling Genome
The Spectrum of
Life : Options -
Communication, the
Human Story
Biotechnology
The Handbook of
Communication
Science and Biology
Sugar chains (glycans)
are often attached to
proteins and lipids and

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have multiple roles in the organization and function of all organisms. "Essentials of Glycobiology" describes their biogenesis and function and offers a useful gateway to the understanding of glycans.

This book constitutes the proceedings of the

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24th Annual
Conference on
Research in
Computational
Molecular Biology,
RECOMB 2020, held
in Padua, Italy, in May
2020. The 13 regular
and 24 short papers
presented were
carefully reviewed and
selected from 206
submissions. The

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papers report on original research in all areas of computational molecular biology and bioinformatics.

This volume, which includes contributions from leading scientists and clinicians in the field, provides definitive, state-of-the-art information on STAT inhibitors in a

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biological and clinical context. It gives an overview of the biology of the STAT family of transcription factors and their role in cancer etiology.

Additionally, it describes the raft of therapeutic approaches being used to inhibit STATs in the context of various cancers,

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covering the full spectrum of therapeutic approaches to inhibiting STATs, and presenting emerging data from clinical trials.

The Encyclopedia of Cell Biology offers a broad overview of cell biology, offering reputable, foundational content

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for researchers and students across the biological and medical sciences. This important work includes 285 articles from domain experts covering every aspect of cell biology, with fully annotated figures, abundant illustrations, videos, and references for

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further reading. Each entry is built with a layered approach to the content, providing basic information for those new to the area and more detailed material for the more experienced researcher. With authored contributions by experts in the field, the Encyclopedia of

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Cell Biology provides a fully cross-referenced, one-stop resource for students, researchers, and teaching faculty across the biological and medical sciences.

Fully annotated color images and videos for full comprehension of concepts, with layered content for readers

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from different levels
of experience Includes
information on
cytokinesis, cell
biology, cell
mechanics,
cytoskeleton
dynamics, stem cells,
prokaryotic cell
biology, RNA biology,
aging, cell growth, cell
Injury, and more In-
depth linking to

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Academic

Press/Elsevier content
and additional links to
outside websites and
resources for further
reading A one-stop
resource for students,
researchers, and
teaching faculty across
the biological and
medical sciences

Biology 2e

Techniques of Visual

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Representation in
Research and

Teaching

Mathematical Biology

The Science of Life

and Light

Mapping the Spectrum

Biodefense in the Age

of Synthetic Biology

This original

new text

provides an

easily

Page 85/172

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***accessible
introduction to
this important
new topic in
time series
analysis. The
authors
emphasize
examples over
theoretical
explanations
and the need
for proper and***

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careful

statistical

tests in the

context of data

exploration.

The book's

focus is on the

application of

the method in

signal

detection,

filtering, and

prediction.

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Instructors and students will appreciate the step-by-step presentation of underlying ideas.

New, fully updated edition of bestselling textbook, expanded to include

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***techniques from
across the
biosciences.***

***Since the
publication of
the first
edition in
2002, there has
been an
explosion of
new findings
and
applications in***

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*the field of
photobiology.
This brand new
edition is
fully updated,
includes new
references, and
offers five new
chapters for a
comprehensive
look at
photobiology.
The chapters*

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**cover all areas
of**

***photobiology,
photochemistry,
and the
relationship
between light
and biology.***

***The book starts
with the
physics and
chemistry of
light and then***

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deals with the evolution of photosynthesis. Four chapters deal with how organisms use light for their orientation in space and time. There are also several medically oriented

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**chapters and
two chapters
specifically
aimed at the
photobiology
educator.**

**Covering the
latest**

**Cambridge A
Level Biology
syllabus**

**(9700), this
stretching**

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resource

supports

advanced

science skills.

It helps build

long-term

performance, as

well as

supporting

confidence for

the Cambridge

exams. The

practical

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***approach helps
to make science
meaningful -
ideal for
students
planning to
study science
at university.
Photobiology
The Functional
and
Evolutionary
Biology of***

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Primates
Making Death
Matter
STAT Inhibitors
in Cancer
Spectrum
Science, Grade
5
How the Science
of Color Made
Us Modern
Biology is shifting

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from its data-poor origins to a quantitative data, high-throughput regime.

Accompanying this change is an increasing technical capacity to engineer biological constructs. This

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book is about theory in this new context for the Life Sciences. Three articles, each preceded by an explanatory introduction, are presented. They propose: * A framework for prediction in this

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new data-rich

regime. * A theory

on the systemic

nature and

hematopoietic

origin of

Parkinson's

Disease. * An

approach to

engineering design

in the biological

context, in

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particular in

Synthetic Biology.

Progress in

Theoretical

Biology, Volume 4

discusses the

theoretical aspects

of genetic

complementation

and illustrates an

allosteric enzyme

model with positive

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feedback applied to glycolytic oscillations. The text also describes the states, observables, and the measurement process in quantum theory and biology; the use of biological macromolecules

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as measuring systems; as well as the structure, stability, and efficiency of ecosystems. The general theory of adaptation as well as the adaptive cognitive system are also encompassed.

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Biologists,
cytologists,
geneticists, and
biophysicists will
find the book
invaluable.

As a result of the
recent expansion
of nuclear
magnetic
resonance in
biomedicine, a

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number of
workshops and
schools have been
organized to
introduce the NMR
principles to a
wider group of
biologists,
radiologists,
neurologists, etc.
The aim of most of
these courses was

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to provide a
common
vocabulary and
enough
information about
``pulse
sequences",
relaxation times,
etc. in order to
facilitate the use of
the various types
of NMR imaging

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systems. However, no courses were organized for the physicists who were responsible for the origin and evolution of the ideas in this area. This Enrico Fermi school was therefore organized. The

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topics discussed included the theoretical interpretation and prediction of NMR signals, the study of new imaging techniques up to the building of special r.f. coils and the study of new methods for

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analysing NMR
data in the time
domain.

Mathematical
biology - the use of
mathematical
ideas and models
in the biosciences
- is a fast growing,
very exciting and
increasingly
important

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interdisciplinary
field. This textbook
is an account of
some of the major
techniques and
models used and
of some genuine
practical
applications drawn
from current areas
of research
interest in, for

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example,
population
ecology,
developmental
biology,
physiology,
epidemiology and
evolution. It
provides the
reader with a
thorough
background,

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sufficient to start

genuine

interdisciplinary

collaborative

research with

biomedical

scientists.

Spatial Models

and Biomedical

Applications

Therapeutic

Strategies in

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Cancer Biology

and Pathology

A Dutch

Perspective

Current Themes in

Theoretical Biology

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Life. option

biochemistry

Proceedings of the

1998 Joint Meeting

of the North

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American Forest
Biology Workshop
and the Western
Astrobiology is a
remarkably
interdisciplinary field.
This reference serves
as a key to
understanding
technical terms from
the different subfields
of astrobiology,
including astronomy,

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biology, chemistry,
the geosciences and
the space sciences.

These original
contributions on the
evolution of primates
and the techniques for
studying the subject
cover an enormous
range of material and
incorporate the work
of specialists from
many different fields,
showing the necessity

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of a multidisciplinary approach to problems of primate morphology and phylogeny.

Collectively, they demonstrate the concerns and methods of leading contemporary workers in this and related fields. Each contributor shows his way of attacking

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fundamental problems
of evolutionary
primatology.

Modern biology is rapidly becoming a study of large sets of data. Understanding these data sets is a major challenge for most life sciences, including the medical, environmental, and bioprocess fields.

Computational biology

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approaches are essential for leveraging this ongoing revolution in omics data. A primary goal of this Special Issue, entitled “Methods in Computational Biology”, is the communication of computational biology methods, which can extract biological

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design principles from complex data sets, described in enough detail to permit the reproduction of the results. This issue integrates interdisciplinary researchers such as biologists, computer scientists, engineers, and mathematicians to advance biological systems analysis. The

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Special Issue

contains the following sections: • Reviews of Computational Methods • Computational Analysis of Biological Dynamics: From Molecular to Cellular to Tissue/Consortia Levels • The Interface of Biotic and Abiotic Processes • Processing of Large

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Data Sets for
Enhanced Analysis •

Parameter

Optimization and
Measurement

Currently, intensive effort is being directed toward the identification of molecular targets that can provide approaches to the development of novel therapeutic strategies

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in cancer management. This book focuses on metastasis-associated genes, metastasis promoter and suppressor genes, which relate specifically to behavioral alterations of cancer cells in epithelial mesenchymal transition, cancer

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stem cell

maintenance and propagation, and to the acquisition of invasive and metastasis faculty.

The function of these genes has implications for cell cycle regulation and cell proliferation and so constitute an essential element in cancer growth and

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dissemination. The emphasis in this book is on how appropriate these genes are as molecular targets and how practicable are the constituents of their signal transduction systems as potential candidates and how accessible they are to targeted therapy.

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straightforward and
clear style with
background
information supporting
the new research, this
book will be useful for
students and
researchers in cancer
therapies. Identifies
molecular targets and
their accessibility for
therapeutic
intervention Provides
information on

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biological features of
tumor development
and dissemination

Background
information provided
for each topic

Principles and
Techniques of
Biochemistry and
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Research in

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Methods in

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**thorough training
in practical
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challenges can
arise from a
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involvement with
the biosciences. It
has been
extensively**

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updated and extended to cover much of the growth of mathematical biology. From the reviews: "This book, a classical text in mathematical biology, cleverly combines mathematical tools with subject area

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sciences."--**SHORT
BOOK REVIEWS**

This book originated as a Festschrift to mark the publication of Volume 50 of the journal 'Acta Biotheoretica' in 2002 and the journal's 70th anniversary in 2005. In it, eleven previously

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**unpublished
research papers
have been
collected that
reflect the entire
scope of topics on
which `Acta
Biotheoretica'
publishes. `Acta
Biotheoretica' is a
journal on
theoretical biology,
published by
Kluwer Academic**

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Publishers, that has its roots in the Dutch tradition of theoretical biology. From the perspective of this tradition, theoretical biology is understood as encompassing a broad spectrum of disciplines ranging from mathematical biology to

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philosophy of biology. To reflect the Dutch roots of the journal, all papers have been invited from authors that work in The Netherlands. This book is aimed at an audience of theoretical and mathematical biologists,

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**Frontiers of Forest
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This volume addresses the latest state-of-the-art systems biology-oriented approaches that--driven by big data and bioinformatics--are utilized by Computational Systems Biology, an interdisciplinary field that bridges experimental tools

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with computational tools to tackle complex questions at the frontiers of knowledge in medicine and biotechnology. The chapters in this book are organized into six parts: systems biology of the genome, epigenome, and redox proteome; metabolic

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networks; aging and longevity; systems biology of diseases; spatiotemporal patterns of rhythms, morphogenesis, and complex dynamics; and genome scale metabolic modeling in biotechnology. In every chapter, readers will find varied methodological

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approaches applied at different levels, from molecular, cellular, organ to organisms, genome to phenome, and health and disease. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics;

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*criteria utilized for
applying specific
methodologies; lists of
the necessary
materials, reagents,
software, databases,
algorithms,
mathematical models,
and dedicated
analytical procedures;
step-by-step, readily
reproducible
laboratory,*

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*bioinformatics, and
computational
protocols all delivered
in didactic and clear
style and abundantly
illustrated with
express case studies
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on troubleshooting
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avoiding mistakes and*

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required millennia of remarkable innovation and a fascinating exchange of ideas between science and craft that's allowed for the most luminous manifestations of our built and adorned world. In Full Spectrum, Rogers takes us on that globe-trotting journey,

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geographic settings).

*The contributors also
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diagnose, prevent, and
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physicists,
chemists, and
astronomers,
particularly from
the boom of
spectrum analysis
in the 1860s until
the advent of
quantum
mechanics.
Seemingly
disparate strands
such as

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spectrochemistry
and cartography,
instrument-design
and science
education are
woven into the rich
tapestry of one of
the most
fascinating
and influential resea
rch-technologies of
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overview of recent
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methods and their applications in chemistry, biology and medicine. In order to meet the needs of readers, the book focuses on recent advances in technical development and potential exploitations of the theory, as well as

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the new applications of vibrational methods to problems of recent general interest that were difficult or even impossible to achieve in the not so distant past. Integrating vibrational spectroscopy and

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computational
approaches serves
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people performing
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followed by
chemometric
analysis hence both
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