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pathway and

sets these

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of plant
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topic from the
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Biochemical
pathways are
represented as
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showing how one
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the production
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organic acids,

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and the
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from a
production
medium. During
the last few
years, the
tools of

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for industrial
process

development

The field of
proteomics has
advanced

considerably

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over the past
two decades.
The ability to

delve deeper
into an
organism's
proteome,
identify an
array of post-
translational
modifications
and profile
differentially

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abundant
proteins has
greatly

expanded the
utilization of
proteomics.

Improvements to
instrumentation
in conjunction
with the
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these
reproducible

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workflows have driven the adoption and application of this technology by a wider research community.

However, the full potential of proteomics is far from being fully

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exploited in
plant biology
and its

translational
application
needs to be
further
developed. In
2011, a group
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established the

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International
Plant
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Organization
(INPPO) to
advance the
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this technology
in plants as
well as to
create a way
for plant
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researchers to
interact,
collaborate and

exchange ideas.

The INPPO

conducted its
inaugural world
congress in mid
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Hamburg

(Germany).

Plant proteomic

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researchers
from around the
world were in

attendance and
the event
marked the
maturation of
this research
community. The
Research Topic
captures the
opinions, ideas
and research

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evidence-based
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Giri, Ph.D.

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Yadav, Ph.D.*

“The book has

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is already

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ability to
manipulate
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also arrange
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on a scale of
~1-100 nm to
create, new
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fundamentally
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and properties

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*arising due to
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stresses in
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*salinity, and
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and ozone, and
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stresses can
be managed by
microbes
through their*

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mechanisms.
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includes both
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of food, its
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of genomic
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resulted in
meteoric growth
of biological
information
such as
sequences of
DNA, RNA and
protein
requiring
databases for
efficient

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*storage,
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the biological
information.*

*Also,
computational
algorithms for
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these colossal
data became a
vital aspect of
biological*

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sciences. The
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Pollutants are
increasing day
by day in the
environment due
to human

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*interference.
Thus, it has
become*

*necessary to
find solutions
to clean up
these hazardous
pollutants to
improve human,
animal, and
plant health.*

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Cleanup is a
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resource that
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toxic hazardous
substances and
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graduate students, and practitioners interested in emerging techniques for environmental decontamination. Kiwifruit have long been known as a decorative and exotic fruit that can

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*be used in
desserts and
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What is less
well known is
that kiwifruit
contain a range
of constituents
with valuable h
ealth-
beneficial
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These range from high levels of high-impact vitamin C to enzymes that assist with digestion, and polysaccharides that promote gut health.

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sciences, radiation
biology, radiation
chemistry,
radiotherapy,
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the food industry, and
so on. The book
covers an overview of
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addresses the information of genome editing starting from principles and historical aspects to the latest advancements in the field. As genome-editing technology has emerged as promising and cutting edge, researchers around the world have

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started producing original research outputs, which have significantly improved our current understanding and potential of this technology. The initial chapters of this book describe different genome-editing tools as well as their principles and applications. Other

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edited crops are
described in detail.

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high/low
temperatures,
and metal**

toxicity, among others. The majority of these stresses occur simultaneously and thus limit crop production. Therefore, the need of the hour is to improve the

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**abiotic stresses
tolerance of
crop plants by
integrating
physiology,
omics, and
modern
breeding
approaches.
This book
covers various
aspects
including (1)**

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**abiotic stress
responses in
plants and
progress made
so far in the
allied areas for
trait
improvements,
(2) integrates
knowledge
gained from
basic
physiology to**

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**advanced omics
tools to assist
new breeding
technologies,
and (3)
discusses key
genes,
proteins, and
metabolites or
pathways for
developing new
crop varieties
with improved**

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**tolerance traits.
This book
includes ten
chapters
addressing
various aspects
of plant stress
physiology,
including plant
responses and
tolerance to
abiotic and
biotic stress.**

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These chapters summarize recent findings on the physiological and molecular mechanisms of stress tolerance. They also discuss approaches to enhancing plant productivity via

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**stress tolerance
mechanisms.**

**This book is
useful for
undergraduate
and graduate
students,
teachers, and
researchers in
the field of
plant
physiology and
crop science.**

Traditional fermented foods are not only the staple food for most of developing countries but also the key healthy food for developed countries. As the healthy functions of

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**these foods are
gradually
discovered,
more high
throughput
biotechnologies
are being used
to promote the
fermented food
industries. As a
result, the micr
oorganisms,
process bioc**

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The book is exceptional in its organization with three major characteristics of plant system i.e. Plant Physiology, Biochemistry and Molecular Biology been provided under

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**one canopy.
Physiology,
which deals
with all the
vital activities
of a plant and
also explains
how it reacts to
sustain in
natural distress
similarly within
the plant, the
types of**

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**physiological
actions at
biochemical
level forming
innumerable
compounds
through chains
of biochemical
reactions at
various levels
of plant growth
and
development**

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**becomes
Biochemistry.
However, the
curiosity and
thirst of
knowledge of
human being is
endless. Man
has been
providing still
inside up to the
molecular and
genetic levels**

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**to understand
the nature of
biochemical
reactions and
to control if
possible up to
the desired
level and that is
Molecular
Biology. Now
this is the time
to elevate most
relevant work**

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**of academic
and applied
importance out
of vast research
of diverse
significance
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**and
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Adaptations in
Plants During
Abiotic Stress**

*World-wide there
are more
overweight and
obese people (1
billion) than
there are
malnourished*

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(0.8 billion).

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Today the challenge lies not just in meeting basic nutritional needs, but providing additional protective ingredients to help prevent the major chronic diseases

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*associated with
obesity.*

Biotechnology

*has become an
important tool
in recent ye*

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Plant

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Progress in

Genomic Era