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Biogenesis From

Biogenesis : Udaya

C. Biswal :

9781402016028

Summary: This is the first book that provides the complete story of chloroplast biogenesis, from proplastid to gerontoplast with mature chloroplast as the transient.

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Biogenesis : From

Proplastid to

Gerontoplast ...

Chloroplast biogenesis

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is initiated from proplastids in small meristematic cells, and involves a series of important events that bring about the development of the organelle from a simple...

**Chloroplast
Biogenesis: From
Proplastid to
Gerontoplast ...**

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Biogenesis From

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--Plastid Forms, their

Structural Flexibility,

and Potential for

Transformation

--Chloroplast

Biogenesis:

Involvement of Three

Plastid Forms --Design

of the Book and the

Limitations --Proplastid

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cover the entire life span of the organelle including its senescence and death.

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DESCRIPTION OF
CHLOROPLAST
BIOGENESIS AND
DEVELOPMENT.

Chloroplast biogenesis and development in seedlings can be described as the differentiation process

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from the plastid progenitor, a proplastid, to a mature chloroplast, whether direct or via the dark-grown intermediate form known as an etioplast (Fig. 1). In developed leaves, chloroplasts are further propagated by fission in a similar way as observed in bacteria.

**Genetic Dissection
of Chloroplast
Biogenesis and ...**

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Nine chloroplast biogenesis (clb) mutants that affect proplastid growth and thylakoid membrane formation and result in an albino seedling phenotype were identified.

CHLOROPLAST BIOGENESIS Genes Act Cell and Noncell

...

Subsequently, plastids have evolved to become essential

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components for plant cell function. The central role of plastids in plant cell biology derives primarily from the chloroplast's ability to supply the cell with fixed carbon and energy as a result of photosynthetic carbon assimilation.

Plastid Division and Development | Plant Cell

Chloroplast biogenesis describes the transition

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of nonphotosynthetic proplastids to photosynthetically active chloroplasts in the cells of germinating seeds. Chloroplast biogenesis requires the import of thousands of nuclear-encoded preproteins¹⁰ and depends on the essential

SUMOylation contributes to proteostasis of the chloroplast ...

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As chloroplast biogenesis is fundamental for plant development it is not surprising that many mutations in genes essential for chloroplast gene transcription and translation, protein import, or thylakoid formation and photosynthesis result either in an embryo-lethal or seedling-lethal phenotype.

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**Insights into
chloroplast
biogenesis and
development ...**

2008). Chloroplast biogenesis is initiated from proplastids in small meristematic cells, and involves a series of important events that bring about the development of the organelle from a simple proplastid to the photosynthetically active chloroplast, with coordinated changes in

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organelle size,
thylakoid membrane
abundance and
composition, pigment

**Gibberellin indirectly
promotes
chloroplast
biogenesis as ...**

Chloroplast biogenesis
and development in
seed- lings can be
described as the
differentiation process
from the plastid
progenitor, a
proplastid, to a mature

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chloroplast, whether direct or via the dark-grown intermediate form known as an etioplast (Fig. 1).

Genetic Dissection of Chloroplast Biogenesis

During chloroplast biogenesis, in an analogous fashion, retrograde plastid-to-nucleus signaling pathways are thought to regulate the anterograde flow of

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gene products from the nucleus to the plastid, which is driven by extraplastidic signaling pathways that sense endogenous and environmental cues.

**Plastid Signals
Remodel Light
Signaling Networks
and Are ...**

bright light, chloroplast biogenesis is arrested at an early stage that resembles the proplastid, and PhANGs

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are severely re-pressed
(Oelmuüller, 1989). We

expected that the

Lhcb:lucp reporter

gene would provide a

more sensitive screen

than the original gun

screen, which utilized

an Lhcb-driven reporter

gene

Plastid Signals

Remodel Light

Signaling Networks

and Are ...

Chloroplast biogenesis
starts from proplastids,

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or the intermediate
etioplast in cotyledons
of dark-grown

seedlings. The plastid
transcription in dark is
mainly driven by NEP.

In the nucleus
transcription of
PhANGs is repressed
by PIFs in cooperation
with other proteins like
EIN3.

**Emerging from the
darkness: interplay
between light and ...**

In recent years, it has

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become evident that plants perceive, integrate and communicate abiotic stress signals through chloroplasts. During the process of acclimation plastid-derived, retrograde sig...

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