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character of the book is different from that of many currently available books because it provides an integrated approach to cover the entire life span of the organelle including its senescence and death.

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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...

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

Development of mature chloroplast from proplastid and subsequent transformation of the mature organelle to gerontoplast during senescence are critically reviewed in

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the background of
regulatory events
associated with them.

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Contents: Introduction
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Structural Flexibility,
and Potential for
Transformation

--Chloroplast

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Involvement of Three
Plastid Forms --Design
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DESCRIPTION OF
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BIOGENESIS AND
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Chloroplast biogenesis and development in seedlings can be described as the differentiation process from the plastid progenitor, a proplastid, to a mature chloroplast, whether direct or via the dark-grown intermediate

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form known as an etioplast (Fig. 1). In

developed leaves,

chloroplasts are further

propagated by fission

in a similar way as

observed in bacteria.

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Biogenesis and ...

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seedlings can be described as the differentiation process 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).

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The rapid biogenesis of chloroplasts is a major

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response during seedling establishment, and this is reflected by the fact that the first dark-to-light transition of seedlings (the 'de-etiolation' process) brings about massive gene expression reprogramming (Ma et al., 2001; Tepperman et al., 2001), and around 50% of the genes eventually affected encode plastid-targeted proteins.

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Some evidence supports the notion that the subset of chloroplast

development

responses to light is, to an ...

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...

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

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seed- lings can be described as the differentiation process 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).

Genetic Dissection of Chloroplast Biogenesis

As chloroplast biogenesis is

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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.

**Insights into
chloroplast**

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biogenesis and

development ...

During chloroplast biogenesis, in an analogous fashion, retrograde plastid-to-nucleus signaling pathways are thought to regulate the anterograde flow of gene products from the nucleus to the plastid, which is driven by extraplastidic signaling pathways that sense endogenous and environmental cues.

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In Arabidopsis embryo cells, chloroplast biogenesis is initiated when embryo development reaches the late globular stage (Mansfield and Briarty, 1991). The differentiation from proplastid to chloroplast requires abundant nuclear

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genes, and mutations

in these genes often

interfere with

chloroplast functions,

leading to embryo

lethality.

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Arabidopsis

EMB1990 Encoding a

Plastid ...

Chloroplast biogenesis

is a highly complex

process that requires

carefully coordinated

communication

between the nucleus

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and the chloroplast to

integrate light

signalling and

information about the

state of the plastid

through retrograde

signals.

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

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Accumulation: The

Interplay of Light and

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In dicot plants, the process by which undifferentiated plastids, termed proplastids, differentiate into mature functional chloroplasts begins in the shoot apical

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meristem (SAM) and young leaf primordia, and continues along leaf development.

Initial proplastid-to-chloroplast differentiation in the

...

chloroplast from proplastid, this procedure is affected by environmental conditions such as light and temperature (López-Juez 2007; Mullet 1993). More and

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more evi-dence have revealed that chloroplast biogenesis is highly regulated.

Photosystem II (PSII) is the least heat-resistant component of the chloroplast thylakoid mem-

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