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In recent years many
advances have been made to
obtain insight into
chloroplast biogenesis and
development. In plants
several plastids types exist
such as the proplastid

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~~To Chloroplast~~
(which is the progenitor of all plastids), leucoplasts (group of colourless plastids important for storage including elaioplasts (lipids), amyloplasts (starch) or proteinoplasts (proteins)), chromoplasts (yellow to orange ...

~~Insights into chloroplast biogenesis and development~~
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

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Chloroplast, with coordinated changes in organelle size, thylakoid membrane abundance and composition, pigment accumulation, organelle division and chloroplast genome copy number (Biswal et al., 2003; Stern et al., 2004).

~~Gibberellin indirectly promotes chloroplast biogenesis as ...~~

The rapid biogenesis of chloroplasts is a major response during seedling establishment, and this is reflected by the fact that the first dark-to-light transition of seedlings (the 'de-etiolation' process)

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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. Some evidence supports the notion that the subset of chloroplast development responses to light is, to an ...

~~Plastid biogenesis, between light and shadows | Journal of ...~~

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

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identified. These mutations identify six new genes as well as a novel allele of *cla1*. *clb* mutants have less than 2% of wild-type chlorophyll levels, and little or no expression of nuclear and plastid-encoded genes required for chloroplast development and function.

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Chloroplast biogenesis, visible as greening, is the

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Key to photoautotrophic growth in plants. At the organelle level, it requires the development of non-photosynthetic, color-less proplastids to photosynthetically active, green chloroplasts at early stages of plant development, i.e., in germinating seeds.

~~Chloroplast Biogenesis Controlled by DELLA TOC159~~

...

Overview of chloroplast development. Chloroplast biogenesis starts from proplastids, or the intermediate etioplast in cotyledons of dark-grown seedlings. The plastid transcription in dark is

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mainly driven by NEP. In the nucleus transcription of PhANGs is repressed by PIFs in cooperation with other proteins like EIN3. COP1 stabilizes PIF/EIN3 and degrades photomorphogenesis promoting transcription factors like HY5 in the dark.

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

The results also present an additional model in which the proplastid-to-chloroplast transition can be studied in the SAM in a defined time-wise fashion, complementing earlier works in which this

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~~To Chloroplast~~ differentiation process was investigated in the shoot apex along a spatial developmental gradient [12,13]. Studying the molecular mechanisms of chloroplast biogenesis in the time-wise SAM model, although challenging in terms of tissue collection, offers the advantage that the analysis can be ...

~~Initial proplastid to chloroplast differentiation in the ...~~

type to another (e.g. from proplastid to chloroplast) is made and it is from here that signals usually emanate when a plastid must respond to an environmental or

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developmental signal. Two approaches have been used to estimate how many nuclear genes encode plastid proteins The first is proteomics, the identification of proteins in chloroplast

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