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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 (which is the progenitor of all plastids), leucoplasts (group of colourless plastids important for storage including elaioplasts (lipids), amyloplast (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 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 ...~~

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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) 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 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.

~~CHLOROPLAST BIOGENESIS Genes Act Cell and Noncell ...~~

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Chloroplast biogenesis, visible as greening, is the 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 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 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 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

~~Genetics and genomics of chloroplast biogenesis: maize as ...~~

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