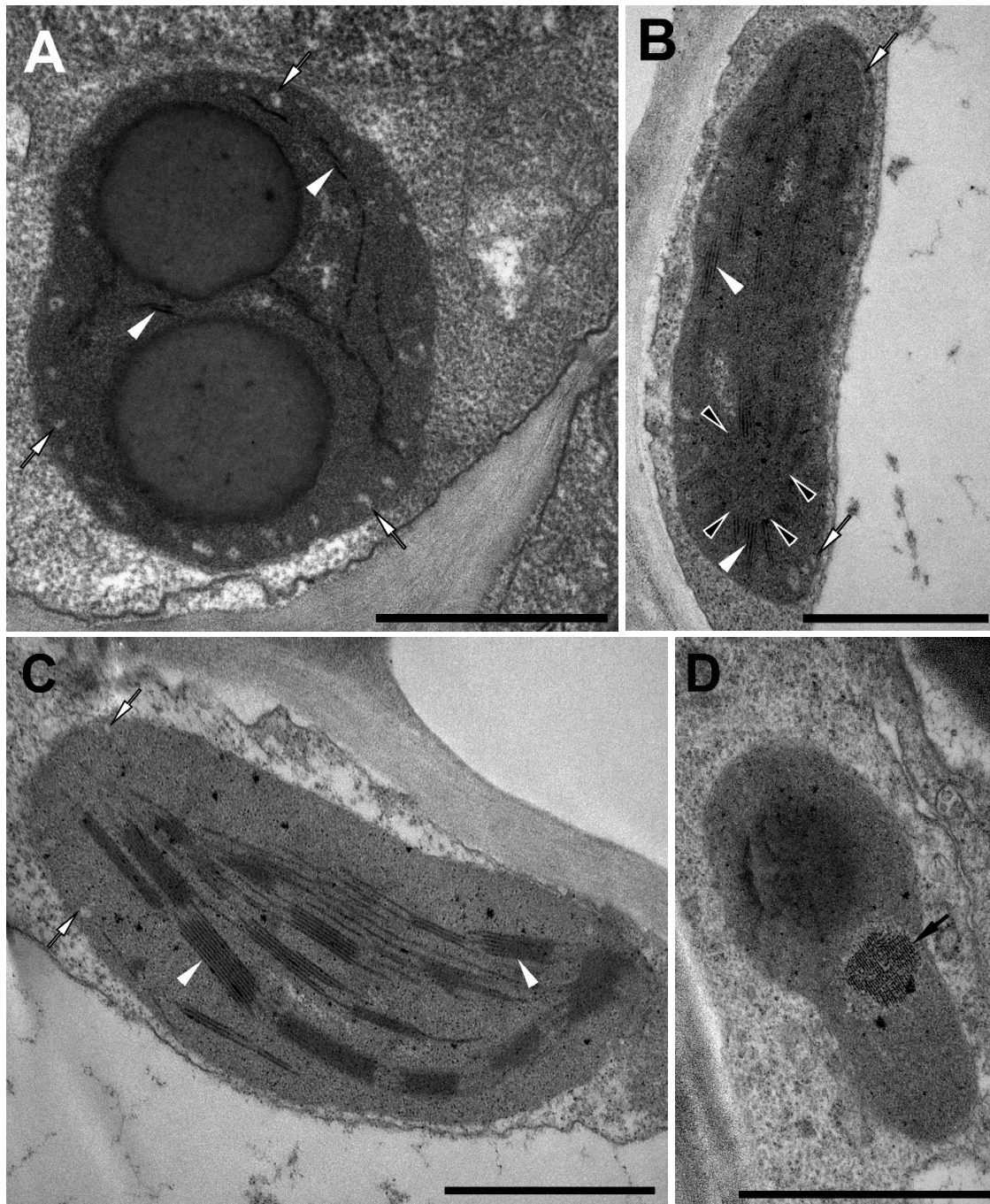


## Supplementary Material



**Supplementary Figure 1. Further details on plastid ultrastructure of dark-forced rosemary (*Rosmarinus officinalis*) shoots developed on adult plants during 2 weeks of growth in complete darkness. (A) Plastid from the adaxial epidermis of first leaf primordium of a dark-forced shoot. (B) Etio-chloroplast from the mesophyll cell of a second leaf of a dark-forced shoot. (C) Chloroplast from the mesophyll cell of the fifth leaf of a dark-forced shoot. (D) Plastid from a phloem parenchyma cell of a second leaf of a dark-forced shoot. White arrowhead: bithylakoids or grana; white arrow: peripheral vesicles or invaginations, black arrowhead: small, hardly distinguishable prolamellar body; black arrow: phytoferritin. Scale bar: 1  $\mu\text{m}$ .**

**Supplementary Table 1. Summarizing the observations on plastid types and ultrastructural features in different cells of rosemary (*Rosmarinus officinalis*) leaves under various conditions.**

	Leaf mesophyll cell	Epidermis cell	Capitate glandular hair			Peltate glandular hair		
			Basal cell	Stalk cell	Head Cell	Basal cell	Stalk cell	Head cell
<b>Light-grown samples</b>								
<b>Young and old leaves of adult plants</b>	Chloroplast	Chloroplast (electron-dense stroma, thylakoids and grana with inverse contrast, invaginations)	Like in epidermis	Leucoplast (few single thylakoid-like structures, electron-dense inclusion)	Like in epidermis (with low grana and electron-dense inclusion)	Leucoplast (tubulo-reticular membranes, electron dense inclusion)	Leucoplast (electron-dense stroma, invaginations)	
<b>Cotyledons of seedlings</b>	Chloroplast	Not analyzed						
<b>Dark-forced or dark-germinated samples</b>								
<b>First leaf and shoot tip of dark-forced shoot</b>	Etio-chloroplast (electron-dense stroma, prolamellar body with /bi/thylakoids, invaginations)	Like in light (with invaginations, electron-dense stroma, lower grana)	Like in light		Like in light and in epidermis cells	Like in light (more electron-dense stroma, invaginations)	Like in light (rarely prolamellar body-like structures appeared)	
<b>Second leaf of dark-forced shoot</b>	Etio-chloroplast (small prolamellar body with grana, invaginations)	Not analyzed						
<b>Fifth leaf of dark-forced shoot</b>	Chloroplast (invaginations)	Not analyzed						
<b>Cotyledon of etiolated seedling</b>	Etioplast (regular prolamellar body)	Not analyzed						