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Gene Regulation of Chlorophyll Biosynthesis

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Message from the Guest Editor

Light-dependent and light-independent Pchl_{ide} reductases have been identified in nature, and their characterization has provided important insights into the evolution of chlorophyll biosynthesis. Because both linear and cyclic tetrapyrroles are highly reactive and can trigger the formation of reactive oxygen species (ROS), the biosynthesis of chlorophyll must be tightly regulated in time and space such that no damage occurs to cellular and subcellular structures. It is the aim of this Special Issue to summarize our current knowledge of the genes and enzymes involved in chlorophyll biosynthesis and what strategies living organisms have evolved to cope with the undesired, potentially harmful effects of these tetrapyrrole compounds.

Prof. Dr. Steffen Reinbothe
Guest Editor



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Message from the Editor-in-Chief

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