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Leaf Senescence

Guest Editor:

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Deadline for manuscript submissions:
closed (15 October 2019)

Message from the Guest Editor

Senescence is the last step in leaf development and aims at remobilizing previously acquired nitrogen carbon and mineral resources out of the senescing tissue before the leaf eventually dies and is shed. Before anthesis, sequential leaf senescence leads to the repartitioning of nutrients from older leaves to newly developing non-reproductive organs. After anthesis, monocarpic leaf senescence governs nutrient reallocation to the now developing reproductive organs and, therefore, has a very critical impact on yield. In the last two decades, it has become obvious that no “master regulator” for senescence exists, but an extremely complex regulatory network controls all aspects of senescence. This Special Issue aims at collecting a wide range of different articles that focus on leaf senescence and its regulation at all levels, including biochemistry, physiology, genes, RNAs, proteins, metabolites, nutrition, and environment, in model or crop plants. In addition, comparisons of leaf senescence to senescence processes in other plant organs or evolutionary aspects of senescence are most welcome.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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