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Cell Separation Processes in Plant Development and Environmental Adaptation

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Message from the Guest Editors

Dear Colleagues,

During several stages of development and in response to abiotic and biotic stresses it is therefore necessary for plants to modulate their cell walls. In certain cases, such as during the formation of stomata, during the sloughing of root cap cells or during lateral root emergence the remodeling of the cell wall leads to separation of adjacent cells. The process of cell separation is also required during abscission, when entire plant organs that have served their purpose or have been injured or infected are lost, and when fruits and seeds are detached from the mother plant.

This Special Issue of *Plants* will focus on cell separation events during plant development, in reproduction and in defense. We welcome articles (original research papers, perspectives, hypotheses, opinions, reviews, modeling approaches and methods) elucidating cell separation processes in different organs of model species and crops from different perspectives, like evolution, genetics, development, biochemistry, and -omic studies.

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Guest Editors



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Special Issue



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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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