



plants



an Open Access Journal by MDPI

Cell Separation Processes in Plant Development and Environmental Adaptation

Guest Editors:

Prof. Reidunn Birgitta Aalen

Department of Biosciences,
University of Oslo, N-0316 Oslo,
Norway

**Assoc. Prof. Melinka A.
Butenko**

Department of Biosciences,
University of Oslo, N-0316 Oslo,
Norway

Deadline for manuscript
submissions:

closed (31 December 2019)

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.

Prof. Reidunn Birgitta Aalen
Assoc. Prof. Melinka A. Butenko
Guest Editors



mdpi.com/si/17909

Special *issue*



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)