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Periderm (Cork) Tissue Development in Plants

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Message from the Guest Editors

Periderm is a protective tissue of secondary origin that replaces the epidermal cell layer when the latter is damaged. Periderm tissue plays a key role in various fruits and vegetables. It constitutes the skin of potato tubers, sweet potato storage roots, and carrot and forms the reticulated structures decorating different species of melon and cucumber, as well as the cork of tree barks—all of which are desired agricultural traits. However, periderm development has negative outcomes, such as skin russetting in potato, apple, pear, and tomato.

Despite its significant impact on plant physiology and agriculture, the developmental and regulatory processes that govern periderm formation and maturation are not fully understood. In this Special Issue entitled, we intend to provide a broad overview on periderm occurrence in plants, including its structural and chemical attributes across species, and highlight the current most fundamental issues in this topic.



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Special Issue



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Message from the Editor-in-Chief

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