

Institut Jean-Pierre Bourgin

Séminaire

Lundi 28 mai 2018, à 11h00

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Oxidative Stress Signaling in Plants Towards the proteome and beyond

In plants, alterations of reactive oxygen species (ROS) levels cause fluctuations of the redox balance and hence can affect many aspects of cellular physiology. ROS levels are controlled by a diversified set of antioxidant systems that allow the maintenance of redox status. Perturbations of these ROS levels can lead to transient or permanent changes in the redox status. This feature is exploited by plants in different stress signaling mechanisms. Understanding how plants sense ROS and transduce these stimuli into downstream biological responses is still a major challenge. Previous transcriptome-centered analyses provided us first insights in the regulatory networks that govern the oxidative stress response. Now, tailoring various proteomics technologies allowed us to assess oxidative stress dependent changes at the posttranslational level. These efforts will allow a better understanding of how cells interpret the oxidative signals that arise from developmental cues and stress conditions.

[Frank Van Breusegem Lab webpage](#)

Invité par **Pierre Hilson**

Ce séminaire aura lieu dans la **Grande salle Bât. 7**