Seminarreihe

DFG Graduiertenkolleg/ Research Training Group 1947

Biochemical, Biophysical, and Biomedical Effects of Reactive Oxygen and Nitrogen Species on Biological Membranes

Freitag, den 19.10.2018, 14:00 Uhr c.t.
SR D213, Institut für Biochemie

Prof. Dr. **Claus-Peter Witte**
Institute of Plant Nutrition
Leibniz University Hannover (Germany)

"Purine Catabolism in Plants – are there Links to ROS Metabolism?"

"The catabolism of nucleotides in plants is not well understood" [1], although nucleotides belong to the most fundamental metabolites. My group is dedicated to the discovery of the catabolic pathways for nucleotides in plants with a major focus on purine nucleotides. These do not only play a role as nitrogen and phosphate stores but are also important long distance transport forms of nitrogen, especially in tropical legumes, and are precursors of purine alkaloids – most importantly caffeine. This presentation will focus on the discovery of new players in nucleotide catabolism and will highlight possible links of nucleotide catabolism to the metabolism of reactive oxygen species.

Further reading:

[1] Buchanan, Bob B.; Gruissem W., Jones, Russell L. Jones (2015): Biochemistry and Molecular Biology of Plants. Chichester: Wiley.

All interested are cordially invited!

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