

Einladung

zum

Botanischen Kolloquium

Freitag, den 12. Mai 2017, 12 c.t.

Nussallee 4, Hörsaal Botanik

Referent: PD Dr. Nicole Linka

Heinrich Heine Universität Düsseldorf, Biochemie der Pflanzen

Thema: „*In and out – Solute transport across the peroxisomal membrane*”

Plant peroxisomes are highly dynamic in metabolism. They are involved in numerous processes of the primary and secondary metabolism, including fatty acid degradation, photorespiration, synthesis of signalling molecules and secondary products. Several metabolic pathways require an interplay with other compartments, such as plastids and mitochondria. Consequently, a high number of substrates, intermediates and cofactors have been transported across the peroxisomal membrane. Considerable progress has been made in peroxisome biology through genomics and proteomics, however, very little is known regarding transport proteins of peroxisomes, mediating the exchange of solutes.

Our group has discovered plant peroxisomal carrier proteins mediating the import of the cofactors ATP, NAD and CoA required for a wide range of metabolic reactions inside peroxisomes. We will give a detailed update on the diverse functions of these cofactor transporters in plants. In addition we will present novel carrier of plant peroxisomes involved in exchange of small organic acids.

Diskussionsleitung: Prof. Dr. A. Meyer, INRES, Chemical Signalling

Die Dozenten der Botanischen Institute

Zu diesem Vortrag und zu einer evtl. Nachsitzung sind Sie herzlich eingeladen