The Max-Planck-Institute of Molecular Plant Physiology in Potsdam invites applications for a

**PhD student or a post-doctoral position**

The research interest of Caldana’s group focuses on understanding the regulatory mechanisms of plant metabolism to promote growth in response to energetic status/environmental signals. In particular, we are interested in dissecting the role of the Target of Rapamycin (TOR) pathway, a central regulator coordinating those factors among eukaryotes. The group utilizes a combination of plant physiology, molecular biology, biochemical analyses, identification of protein-protein/protein-metabolite complexes to unravel direct targets of this kinase. We use *Arabidopsis thaliana* as a model system to decipher the mechanism, but we are currently transferring the acquired knowledge to fast growing species such as *Setaria viridis* and the crop sugarcane.

We are looking for highly motivated candidates with excellent academic record and strong background in plant biology. The project will build on our recent findings of the role of the TOR pathway in converging sugar status and carbon partitioning to growth. Central tasks of the project will involve the elucidation of the TOR-dependent network in the control of C partitioning by using a range of cutting-edge molecular biology and biochemical methods (e.g., CRISPR-Cas9, pull-down, metabolomics). The successful candidate must also have very good English skills (speaking and writing), strong commitment to cooperate as well as the ability to work independently. Knowledge or interest in bioinformatics is desirable.

Applicants should submit a letter of motivation, a resume with publication list, and names and email addresses of two references as a single PDF-document to Dr Camila Caldana by e-mail Caldana@mpimp-golm.mpg.de

Max-Planck-Institut für Molekulare Pflanzenphysiologie
Personalverwaltung
Wissenschaftspark Golm, Am Mühlenberg 1, 14476 Potsdam