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My main research interest is acclimation of higher plants to abiotic stress with an emphasis on regulation of photosynthetic electron transport and generation of reactive oxygen species. I characterize physiologically important processes by a combination of biophysical/biochemical and physiological techniques integrating in vivo observations and studies characterizing isolated systems on a molecular level. During my PhD thesis and Postdoctoral studies I have characterized a molecular switch which modulates the yield of singlet oxygen formation in photosystem II. I extended this work towards the characterization of signaling pathways triggered by singlet oxygen and hydrogen peroxide. Nowadays, I have started to characterize the enzymatic activity and the physiological role of the plastid terminal oxidase and I got interested in redox regulation of superoxide anion radical generation at the level of photosystem I.