



2019
Plant Biology

XXIII Meeting of the Spanish Society of Plant Physiology | XVI Spanish Portuguese Congress of Plant Physiology

Pamplona
June 26-28, 2019



Cecilia Gotor is Research Scientist from the National Research Council (CSIC) at the Institute of Plant Biochemistry and Photosynthesis (IBVF). She is PhD in Chemistry and performed postdoctoral stays in US, at the University of Nebraska-Lincoln and the past 25 years and got the permanent position 18 years ago. She has a long and solid experience in plant sulfur metabolism and leads a research group focused on the study of the biosynthesis and metabolism of cysteine and in recent years on plant signaling by molecules related to cysteine. Her group has been pioneering in a change of concept of sulfur compounds, performing signaling roles rather than metabolic functions. Her research demonstrated that cytosolic sulfide acts as a signaling molecule regulating autophagy and the stomatal movement. Moreover, cytosolic cysteine and chloroplastic S-sulfocysteine regulate plant immunity and the protection of photosystems, respectively. In the mitochondria, the levels of cyanide modulated by the metabolism of cysteine, are essential for root hair development and plant responses to pathogens. Her research group has identified the posttranslational modifications persulfidation and S-cyanylation as the mechanisms by which sulfide and cyanide performs the signaling roles. She has led several projects and has an important record of publications in high impact peer- journals. She participates in different international scientific networks and maintains active collaborations with other researchers in Spain and abroad. She acts as a reviewer for numerous scientific journals and she is involved in several scientific committees.