

# NEWS:

## **Advances in LC-MS/MS proteomics to support stress resistance and crop productivity**

LC-MS/MS proteomics has proven to be powerful (1) for the determination of stress response mechanisms in different plant organs and tissues in order to improve important traits :

Identification by gel-free shotgun liquid chromatography tandem mass spectrometry (LC-MS/MS), elucidation of protein functions and protein functional networks in plant metabolic and signaling pathways through the analysis of protein mapping, characterization of PTMs and protein-protein interactions, bioinformatic tools and the use of databases for both model, untargeted multiplex relative quantification to compare conditions, targeted MS-based quantitative approaches such as multiplexed selective reaction monitoring (SRM).

(1) Advances in plant proteomics toward improvement of crop productivity and stress resistance Hu J. and all. 2015 <http://www.ncbi.nlm.nih.gov/pubmed/25926838>

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***Targeted PTM characterizations***

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