



## Metabolomics in the Plant Sciences 2017

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### Message from the Guest Editors

In the field of omics, metabolomics—the large-scale study of metabolites—represents a powerful approach, because metabolites and their levels, unlike other omics measures, directly reflect the underlying global biochemical activity, (patho)physiological conditions and metabolic state of biological systems. In other words, metabolites are closely correlated to phenotype and metabolomics best represents the molecular phenotype of biological systems.

Not least of all, providing metabolome information for food and medicinal plant species is also relevant for better understanding the nutritional and healthy potential of these plants, as well as their adverse effects in human, if any. Metabolite profiling of animal/human body fluids (blood, urine, saliva) after ingestion of plant products will certainly contribute to ascertain their biological/pharmacological properties, toxicological effects, oral bioavailability and, finally, how plant product intake modifies the metabolic profile in animal/human.

With warmest regards,

Prof. Dr. Marcello Iriti

Prof. Dr. Ute Roessner

*Guest Editors*





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