

Flavonoids Metabolomics

Flavonoids are polyphenols produced through the phenylalanine metabolic pathway and it plays an essential role in plant physiological processes such as rhizogenesis, pollination, pathogenic bacterium stress, and ultraviolet stress response. Furthermore, it is a strong antioxidant widely used in human disease treatment and food supplements. Metwarebio's Flavonoid Metabolomics is based on our unique Widely-Targeted Metabolomics process to simultaneously detect more than 3700 flavonoids in plant samples.



Extensive and Wide-coverage

12 classes, 3700+ specific flavonoid compounds



Accurate Identification

Using a proprietary approach that matches project substances spectra data with MWDB spectra data



Improved Metabolic Maps

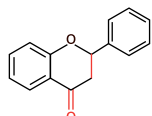
Improved upon the three flavonoid KEGG pathways maps



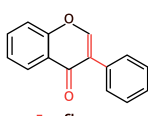
Precise Quantitation

Using the gold standard detection mode (MRM) based on QQQ for quantitation

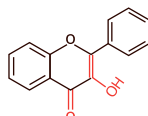
Six Flavonoid Classes



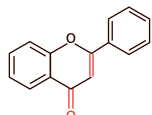
Flavonone



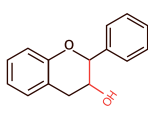
Isoflavone



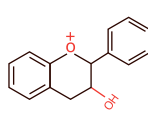
Flavonol



Flavone



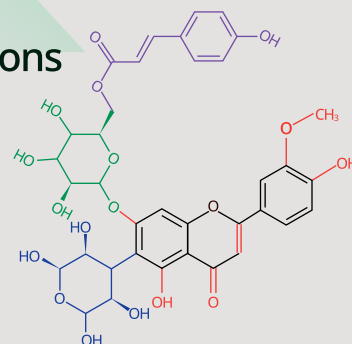
Flavanol



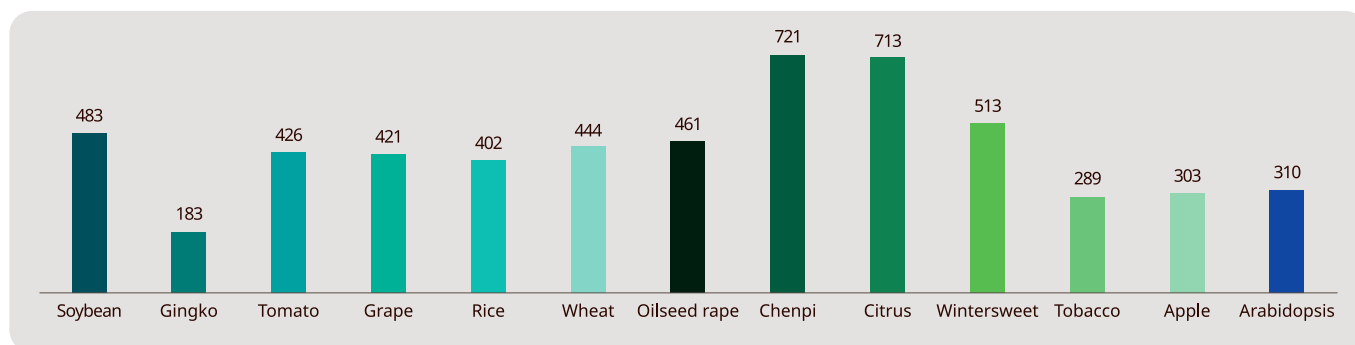
Anthocyanin

Modifications

Hydroxylation
Methylation
Glycosylation
Acylation
...



Project Experience



Average number of flavonoids detected in different species.

METWARE BIO



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