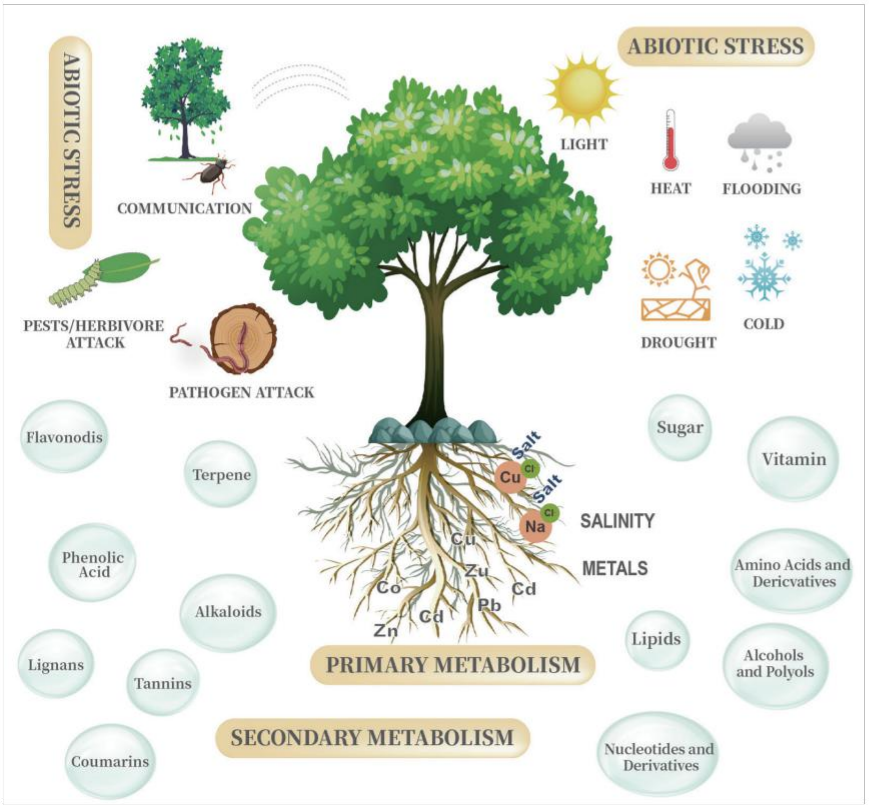
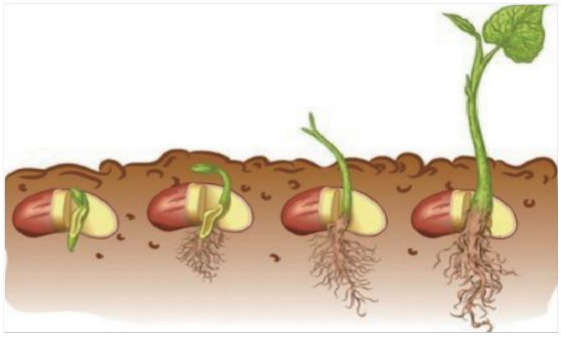
Flavonoids Metabolomics

APPLICATIONS

Research In Stress Responded And Environmental Adaptation



Research In Plant Development



Research In Nutrients And Agronomic Traits In Crops

DETECTING PLATFORM

QTOF

Metabolite Identification With MS^2

+

QQQ

Metabolite Quantification With MRM Gloden Standard

IN-HOUSE DATABASE

Number of metabolites in different classes			
Flavone	880	Flavonol	600
Dihydroflavone	270	Dihydroflavonol	50
Anthocyanin	210	Aurone	31
Flavanol	90	Isoflavones	310
Chalcones	230	Biflavone	50
Other flavonoids	800	Total	3700+

PROJECT WORKFLOW

Sending sample to us → Sample Extracting → Sample Detecting On Our Platform → Data Analysis → Report Sending

SAMPLE REQUIREMENTS

Sample Type	Recommended Individual sample weight	Minimum Individual sample weight	Recommended Biological duplication
Stem, Bud , Node, Leaf, Root, Flower, Fruit,callus	600mg	300mg	≥3

DETECTING EXPERIENCE

SELECTED PUBLICATIONS

ANALYSIS LIST

01 CV value distribution of all samples

02 Principal Component Analysis (PCA)

03 Principal component univariate statistical process control

04 Hierarchical Cluster Analysis (HCA)

05 Sample correlation assessment

06 Discriminant Analysis by Orthogonal Partial Least Squares (OPLS-DA)

07 Dynamic distribution of metabolite content differences

08 Differential metabolite screening

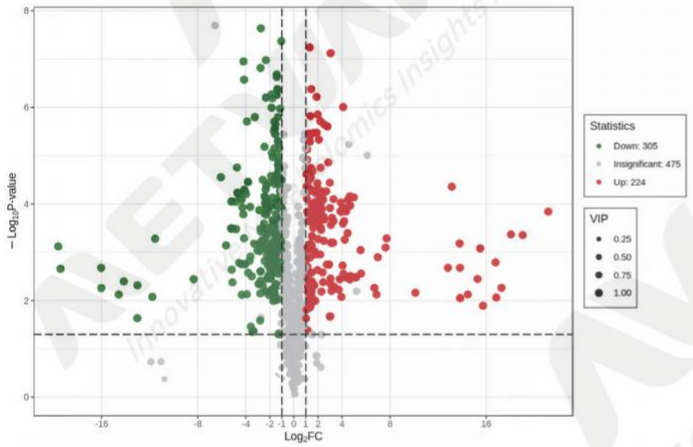
09 Volcanic plot of differential metabolites

10 Correlation analysis of differential metabolites

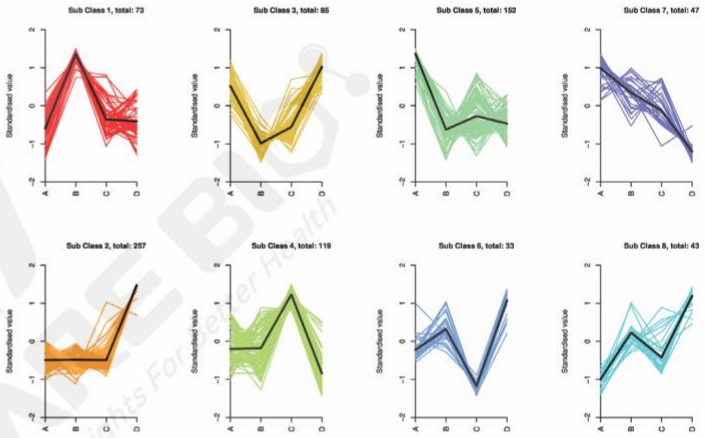
11 K - Means analysis

12 Venn diagram of differential metabolites

13 Functional annotation and enrichment analysis of differential metabolites in KEGG database



Volcanic plot of differential metabolites



K-Means analysis

METWARE BIO
Innovative Metabolomics Insights for Better Health

International Offices
8A Henshaw St., Woburn, MA, USA +1 (781)975-1541

www.metwarebio.com

support-global@metwarebio.com