Figure S4. Mapping of differentially expressed enzymes in leaves due to salinity stress on the KEGG.
PENTOSE AND GLUCURONATE INTERCONVERSIONS

[Diagram of metabolic pathways involving pentose and glucuronic acid interconversions, including pathways such as the pentose phosphate pathway, galactose metabolism, and other sugar metabolism processes.]
GERANIOL DEGRADATION

Nerol

Monoterpenoid biosynthesis

Citronellol

1.1.1.83

AtuB AtuG

1.2.1.86

trans-Geranyl-CoA

AtuF AtuC

2.8.3.

isoHexylglutaryl-CoA

AtuE 4.2.1.57

6.4.1.5

cis-Geranyl-CoA

AtuL AtuH

5.2.1.

Citronellyl-CoA

Citronellal

1.1.1.83

AtuB AtuG

1.2.1.

Valine, leucine and isoleucine degradation

2.3.1.16

3-Hydroxy-3-isohexylglutaryl-CoA

41.3.25 41.3.4

7-Methyl-3-oxo-6-octenyl-CoA

2.3.1.16

(2E)-5-Methylhex-2,4-dienoyl-CoA

1.3.99

5-Methylhex-4-enoyl-CoA

42.1.17

3-Hydroxy-5-methylhex-4-enoyl-CoA

11.1.35

3-Methylcrotonyl-CoA

2.3.1.16
OTHER GLYCAN DEGRADATION

N-glycan

Neu5Acα2 — 6Galβ1 — 4GlcNAcβ1 — 2Manα1

GlcNAcβ1 — 6Manβ1 — 4GlcNAcβ1 — 4GlcNAcβ1 — Asn

Ganglioside

Neu5Acα2 — 8Neu5Acα2

6GalNAcβ1

Neu5Acα2 — 8Neu5Acα2 — 3Galβ1

4Galβ1 — 4Glcβ1 — 1ceramide

(c) Kanelis Laboratories
GLYCOSAMINOGLYCAN DEGRADATION

Hyaluronan
GlcA\(\beta\) - 3\(\text{GalNAc}\)\(\beta\) - 4 GlcA\(\beta\) - 3\(\text{GalNAc}\)\(\beta\)
GUSB NAZ2 GUSB

Chondroitin sulfate
Ga\(\text{Nac}\beta\) - 4\(\text{GlcA}\)\(\beta\) - 3\(\text{GlcNAc}\)
ARSB GALNS

Dermatan sulfate
S
IDS

Heparan sulfate
S

Keratan sulfate
GALNS

(c) Kearfott Laboratories
LIPOPOLYSACCHARIDE BIOSYNTHESIS

[Diagram of the lipopolysaccharide biosynthesis pathway with various enzymes and intermediates labeled.]
mTOR SIGNALING PATHWAY

Growth factors

Hormones

INS/IGF

MAPK signaling pathway

Insulin signaling pathway

PI3K

PTEN

PKC

G6L

mTOR

Raptor

ERK1/2

RSK

PRAS40

AKT

TSC1

TSC2

Rheb

G6L

mTOR

Raptor

Aktin organization

Insensitive or its analogs

Rapamycin

DNA

VEGF

eIF4B

eIF4E

S6K1/2

S6

4EBP1

ATG1

Regulation of autophagy

Translation

Cell growth

Extracellular amino acids

TNFα

AMPK

AMP

Metformin

AICAR

AMPK

IKKβ

Hypoxia

REDD1

AMP

LKB1

STRA11

MO25

Energy stress

Rag A/B

Rag C/D

BRAF

Amino acids

Differentiation

Regulation of autophagy

DNA

Translation

Cell growth

mTOR SIGNALING PATHWAY

Growth factors

Hormones

INS/IGF

MAPK signaling pathway

Insulin signaling pathway

PI3K

PTEN

PKC

G6L

mTOR

Raptor

Aktin organization

Insensitive or its analogs

Rapamycin

DNA

VEGF

eIF4B

eIF4E

S6K1/2

S6

4EBP1

ATG1

Regulation of autophagy

Translation

Cell growth

Extracellular amino acids

TNFα

AMPK

AMP

Metformin

AICAR

AMPK

IKKβ

Hypoxia

REDD1

AMP

LKB1

STRA11

MO25

Energy stress

Rag A/B

Rag C/D

BRAF

Amino acids

Differentiation

Regulation of autophagy

Translation

Cell growth