

Scatter plot showing the relationship between First Joint Loadings (X-axis) and Second Joint Loadings (Y-axis) for 1500 genes. The plot displays a large cloud of grey points representing all genes. A subset of 15 genes is highlighted with red dots and labeled. These genes are clustered in three main regions: top-left, top-right, and bottom-left. The x-axis (First Joint Loadings) ranges from -0.015 to 0.015, and the y-axis (Second Joint Loadings) ranges from -0.015 to 0.015.

Key labeled genes include:

- TRINITY_DN15545_c0_g1
- TRINITY_DN21657_c0_g2
- TRINITY_DN33318_c1_g2
- TRINITY_DN3729_c1_g2
- TRINITY_DN14077_c0_g1
- TRINITY_DN73024_c0_g3
- TRINITY_DN42423_c0_g1
- TRINITY_DN86133_c0_g1
- TRINITY_DN132923_c0_g1
- TRINITY_DN4543_c0_g1
- TRINITY_DN139923_c0_g3
- TRINITY_DN95833_c0_g2
- TRINITY_DN43249_c3_g1
- TRINITY_DN227681_c0_g1
- TRINITY_DN42462_c1_g2
- TRINITY_DN13673_c0_g1
- TRINITY_DN2305_c0_g5
- TRINITY_DN47434_c0_g1
- TRINITY_DN99032_c0_g1
- TRINITY_DN113340_c2_g3
- TRINITY_DN1144_c1_g2
- TRINITY_DN75587_c0_g1
- TRINITY_DN115690_c0_g1
- TRINITY_DN43139_c0_g1
- TRINITY_DN8453_c1_g1

PCA plot showing the distribution of metabolite loadings. The x-axis represents the First Joint Loadings, and the y-axis represents the Second Joint Loadings. Red dots indicate significant metabolites, while grey dots indicate non-significant metabolites. A black arrow points to the cluster of significant metabolites on the right side of the plot.

Metabolite	First Joint Loadings (approx.)	Second Joint Loadings (approx.)	Significance
PGP(PG32)a-25.0	-0.10	0.25	Significant
Lysyl-aspartyl-glutamyl-leucine	-0.12	0.22	Significant
PI(PGE2)6.1(92)	-0.12	0.20	Significant
DQ(18.3;10.12;15)-OH(9)0.0;20.0	-0.11	0.21	Significant
2-[2-(3,4-diethoxyphenyl)acetyl]-N-methyl-2-azaspiro[4.4]nonane-4-carboxamide	-0.11	0.14	Significant
Cyclocreatine	0.13	0.19	Significant
Mannoside	0.14	0.13	Significant
Phytolactone B 3-glucoside	0.14	-0.11	Significant
12-Hydroxy-13-O-D-glucuronoside-octadec-9Z-enoate	0.14	-0.12	Significant
Allysine	0.14	-0.13	Significant
Ornithine	0.15	-0.12	Significant
Cytamic acid	0.15	-0.14	Significant
Valylglutamine	0.14	-0.15	Significant
Sterbin G	0.14	-0.17	Significant
Gibberelin A44	0.11	-0.18	Significant
Prolyl-Glutamine	-0.10	-0.15	Significant
Dibutyl malate	-0.12	-0.15	Significant
Heptanoic acid	-0.12	-0.17	Significant
Valbran	-0.12	-0.18	Significant
N2-Acetylornithine	-0.11	-0.20	Significant
3-Phenylacetic Acid	-0.11	-0.21	Significant
4-Vinylphenol	-0.11	-0.22	Significant
Ser Leu Val	-0.11	-0.23	Significant
L-Theanine	-0.10	-0.28	Significant
Pipes	-0.10	-0.31	Significant