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| --- | --- | --- | --- |
| Metabolites significantly increased in *spr2* plants with [m] and/ or [h] AMF colonization levels. **Negative JA regulation** | Metabolites significantly decreased in WT plants with [m] and/ or [h] AMF colonization levels.  **Negative JA regulation** | Metabolites significantly decreased in *spr2* plants with [m] and/ or [h] AMF colonization levels.  **Positive JA regulation** | Metabolites significantly increased in WT plants with [m] and/ or [h] AMF colonization levels. **Positive JA regulation** |
| Methylglyoxal  (m/ z: 72.11) | (m/ z: 50.21) | (m/ z: 61.1)\* | Hydroxypyruvate  (m/ z: 104.21) |
| Aminopropanal; glyoxylic acid  (m/ z: 73.26) | 3-methyl-4-trans-hydroxy-2-butenal  4-methylpentanal  Cis-3-hexenol  Hexanal  (m/ z: 101.12) | Glucose and isomers  3-(4-hydroxyphenyl) pyruvate\*  (m/ z: 179.01) | L-valine;  L-aspartate-semi aldehyde  (m/ z: 118.12) |
| (m/ z: 97.13) | (m/ z 85.15) | (m/ z: 399.19) | Cystine  (m/ z: 241.1) |
| Thymine  (m/ z: 127.06) | Proline  (m/ z: 115.06) | (m/ z: 447.15) | Cytidine  Uridine  (m/ z: 244.19) |
| Itaconate\*  (m/ z: 130.06) | Succinic acid  (m/ z: 119.13) | (m/ z: 457.17) | 6-phosphogluconate  (m/ z: 274.62) |
| L-homocysteine\*  (m/ z: 136.10) | Nicotinic acid  (m/ z: 123.05) | (m/ z: 465.19) | Cyanidin  (m/ z: 288.22) |
| Histidinol  Phosphorylethanolamine  (m/ z: 142.13) | (m/ z: 129.00) | (m/ z: 691.18)\* | (m/ z: 316.36) |
| DHAP\*  (m/ z: 170.13) | N-acetylputrescine  (m/ z: 138.09) | (m/ z: 697.36)\* | Myricetin  (m/ z: 317.19) |
| (m/ z: 173.12)\* | Salicylic acid  (m/ z: 72.11) | (m/ z: 711.26)\* | **Ga24**  (m/ z: 345.18) |
| Aconitic acid\*  (m/ z: 174.14) | Guanine  (m/ z: 151.07) | (m/ z: 714.95)\* | (m/ z: 363.12) |
| (m/ z: 175.13)\* | Hydroxyisourate  Normetanephrine  (m/ z: 184.92) | (m/ z: 718.99)\* | O-feruloylquinate  (m/ z: 368.88) |
| Cis-homoaconitate  N6-acetyl-l-lysine  (m/ z: 189.1) | (m/ z: 233.09) | (m/ z: 734.85)\* | (m/ z: 376.73) |
| 5-phosphoribosylamine  (m/ z: 229.18) | Marmesin  Pyridoxal-5'-phosphate  (m/ z: 247.07) | (m/ z: 739.35)\* | Tomatidine  (m/ z: 416.4) |
| (m/ z: 231.04) | D-fructose-6-phosphate  D-galactose 6-phosphate  D-mannose-6-phosphate  D-myo-inositol (4)-monophosphate  (m/ z: 261.05) | (m/ z: 830.57)\* | (m/ z: 756.51) |
| Thiamin  (m/ z: 266.17) | 2,3-bisphospho-D-glycerate  (m/ z: 265.08) | (m/ z: 941.37)\* | (m/ z: 802.55) |
| Phloretin\*  Erythroidine\*  (m/ z: 273.11) | (m/ z: 291.07) | (m/ z: 1057.47)\* | (m/ z: 808.69) |
| (m/ z: 320.26) | trans-5-O-caffeoyl-D-quinate  (m/ z: 353.12) |  | (m/ z: 953.43) |
| 3',5'-cyclic IMP\*  (m/ z: 330.24) | (m/ z: 362.13) |  | (m/ z: 1048.46) |
| Sucrose and isomers\*  (m/ z: 343.21) | (m/ z: 455.17) |  |  |
| 5-amino-6-(5'-phosphoribosylamino)-uracil (Riboflavin precursor)  (m/ z: 354.15) | (m/ z: 493.2) |  |  |
| (m/ z: 367.22) | (m/ z: 499.15) |  |  |
| Trans,trans-farnesyl diphosphate  (m/ z: 381.12) | (m/ z: 521.26) |  |  |
| (m/ z: 389.17) | (m/ z: 557.99) |  |  |
| Phytoene  (m/ z: 544.93) | Canthaxanthin  (m/ z: 565.91) |  |  |
| (m/ z: 583.3) | 1-18:1-2-18:3-phosphatidylcholine  (m/ z: 782.52) |  |  |
| (m/ z: 381.12) | (m/ z: 796.5) |  |  |
| (m/ z: 801.41) | (m/ z: 804.57) |  |  |
| (m/ z: 979.50) | (m/ z: 815.44) |  |  |
| Didehydrotomatine  (m/ z: 1029.38) | (m/ z: 818.07) |  |  |
| (m/ z: 1105.96) | (m/ z: 820.49) |  |  |
|  | (m/ z: 1194.02) |  |  |
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