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| **Table 1: Super metabolic module information** | |  |  |
| **SM ID** | **Super Module class** | **#Modules** | **#Genes** |
| 1 | Glycolysis + TCA cycle | 14 | 83 |
| 2 | Serine Metabolism | 18 | 114 |
| 3 | Pentose phosphate | 1 | 28 |
| 4 | Fatty Acids Metabolism/Synthesis | 2 | 81 |
| 5 | Aspartate Metabolism | 5 | 35 |
| 6 | Beta-Alanine Metabolism | 5 | 48 |
| 7 | Propionyl-CoA Metabolism | 2 | 25 |
| 8 | Glutamate Metabolism | 5 | 13 |
| 9 | Leucine + Valine + Isoleucine | 8 | 99 |
| 10 | Urea Cycle | 8 | 30 |
| 11 | Spermine Metabolism | 2 | 7 |
| 12 | Transporters | 35 | 80 |
| 13 | Hyaluronic acid synthesis | 5 | 26 |
| 14 | Glycogen synthesis | 1 | 4 |
| 15 | Glycosaminoglycan synthesis | 1 | 14 |
| 16 | N-linked glycan synthesis | 12 | 88 |
| 17 | O-linked glycan synthesis | 4 | 17 |
| 18 | Sialic acid synthesis | 3 | 12 |
| 19 | Glycan synthesis | 1 | 5 |
| 20 | Purine synthesis | 17 | 67 |
| 21 | Pyrimidine synthesis | 17 | 49 |
| 22 | Steroid hormone synthesis | 3 | 177 |