

Metabolite/Pathway Coverage

A total of 4000+ metabolite candidates with 600+ metabolites with identification, including:

- **All metabolites** (300+ with identification) in Basic Global Metabolomics Analysis
- Short & Medium Chain Fatty Acids (20+)
- Bile Acids (10+)
- Long Chain Fatty Acids (15+)
- Other Small Carboxylic Acids (15+)

The metabolites cover more than 90 pathways, including:

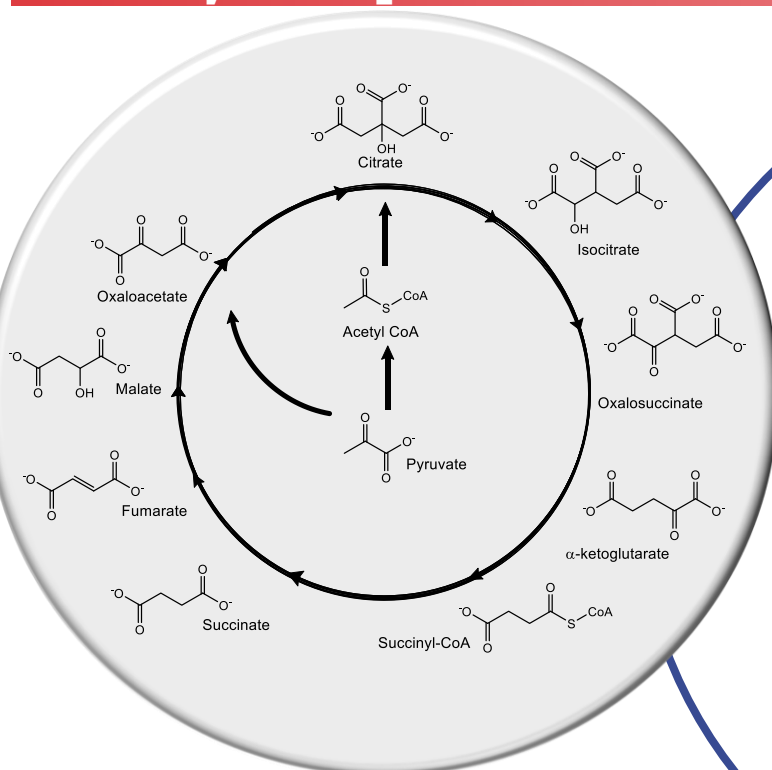
1) **All pathways with higher coverage** in Basic Global Metabolomics Analysis, e.g.,

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|--|--|
| ✓ Arginine and Proline Metabolism (24) | ✓ Tyrosine Metabolism (24) |
| ✓ Tryptophan Metabolism (20) | ✓ Lysine Degradation (20) |
| ✓ Phenylalanine Metabolism (16) | ✓ Glyoxylate and Dicarboxylate Metabolism (11) |

2) **Additional new pathways** are covered, e.g.,

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|--|--|
| ✓ Citric Acid Cycle (7) | ✓ Arachidonic Acid Metabolism (20) |
| ✓ Fatty Acid Biosynthesis/Degradation(12+) | ✓ alpha-Linolenic Acid Metabolism (10) |
| ✓ Propanoate Metabolism (7) | ✓ |

Pathway Example



Citric Acid Cycle

Significance

As a key metabolic pathway responsible for energy metabolism, TCA cycle plays a fundamental role in organisms. By providing important precursors and building blocks for a large number of molecules and processes, it connects carbohydrate, fatty acid, proteins and DNA metabolism. Its central importance to many biochemical pathways attracts great interest in biological sciences.

Coverage with **Elevated** Analysis

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|---------------------|-----------------------|
| • cis-Aconitic Acid | • Citric Acid |
| • Succinic Acid | • Isocitric Acid |
| • Malic Acid | • α-Ketoglutaric Acid |
| • Fumaric acid | |