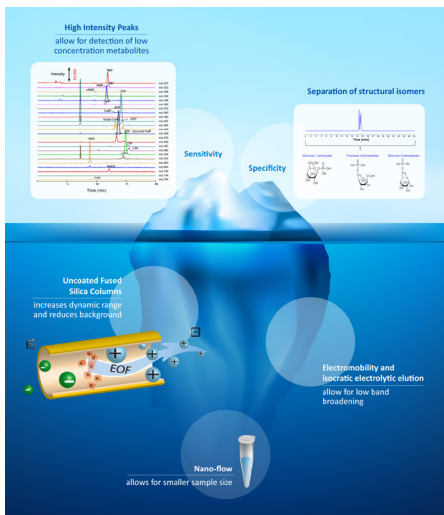




# HMT Technical Bulletin

## Learn about our Novel CE-MS Technology Driving the Next Generation of Metabolomics

- The high resolution ability of CE enhances the separation of compounds, key to the identification and annotation of metabolites from a metabolome pool comprising of thousands of chemical compounds.
- There are a lot of metabolites with similar chemical structures and physical properties, with significantly different biological functions in biological systems. For example, Pyruvate and Lactate, are important intermediates and end-products of glycolysis, and the CE separation and identification of these metabolites is an essential process for pathway understanding.
- CE can separate many other isomeric compounds, for example, Glucose-6-phosphate and Fructose-6-phosphate, which have the same chemical formulae and molecular weights, cannot be resolved by LC-MS, but can be separated and quantitated by CE-MS.
- The employment of CE-MS in metabolomics provides higher resolution profiling of many metabolic intermediates.



[CLICK HERE TO LEARN MORE](#)

## Upcoming HMT Events

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### NIH Research Festival, November 2-3rd, Bethesda, MD

Visit our booth to speak with our metabolomics experts

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**CARCINOSCOPE**  
**C-SCOPE**  
Absolute quantitation of  
116 primary metabolites

**HMT target-based analysis**

- Quantitative profiling for essential metabolic pathways
- Glycolysis, TCA cycle, Pentose-P pathway, Amino acids, etc.
- Report with statistical analyses and interpretation by biochemist

**F-SCOPE**  
13C labeling analysis for  
metabolic flux

HMT is a leading company providing metabolomic profiling based on unique and high performance CE-MS technology. We complete over 400 projects a year and our technology has contributed to the advancement of research in a variety of scientific areas.

*Edited by Laura Shelton, PhD*

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