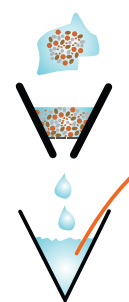


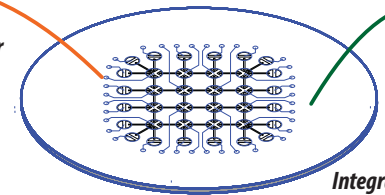
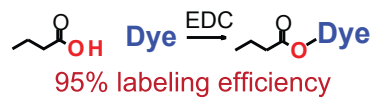
402: Microfabricated Organic Analyzer for Biosignatures (MOAB)

POC: Jungkyu (Jay) Kim @ U of Utah

Sample Capture

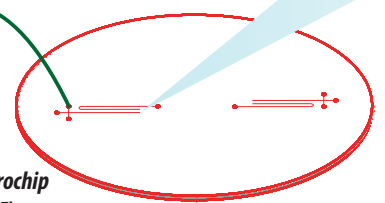


Labeling

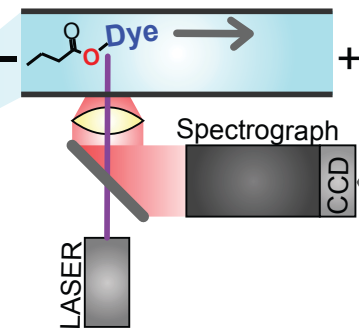


Analysis

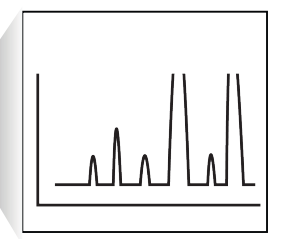
High resolution
0.01 ppb



Detection



Identification & Quantitation

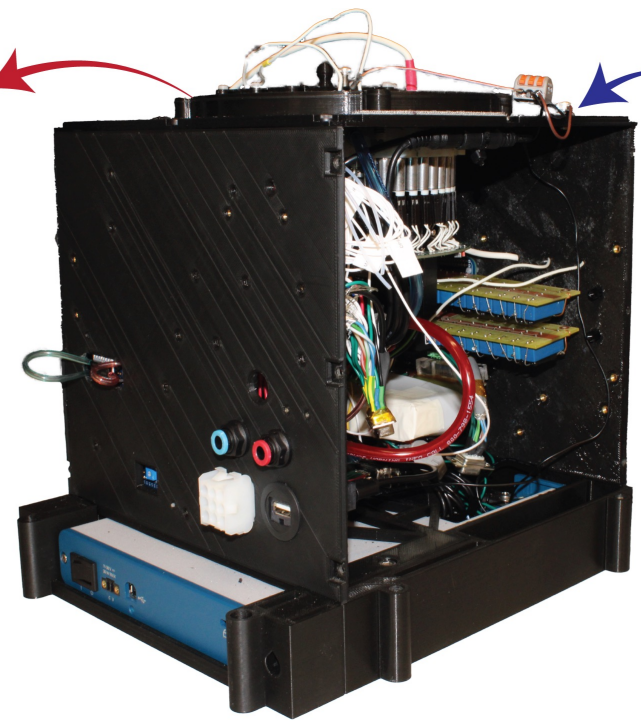


Microfluidic Processor & μ CE

Reagent Storage
 Central Pumping Unit
 CE Channel and Ports

Vacuum Flow Pressure

Cathode
 Anode
 Waste Sample
 Fluorescence Signal (V)
 Time (s)



Subsystems

CE Interface
 Pneumatic Control
 Assembled Core Unit



Drs. Mathies & Butterworth @UCB