

MALDI-TOF Mass Spectrometry

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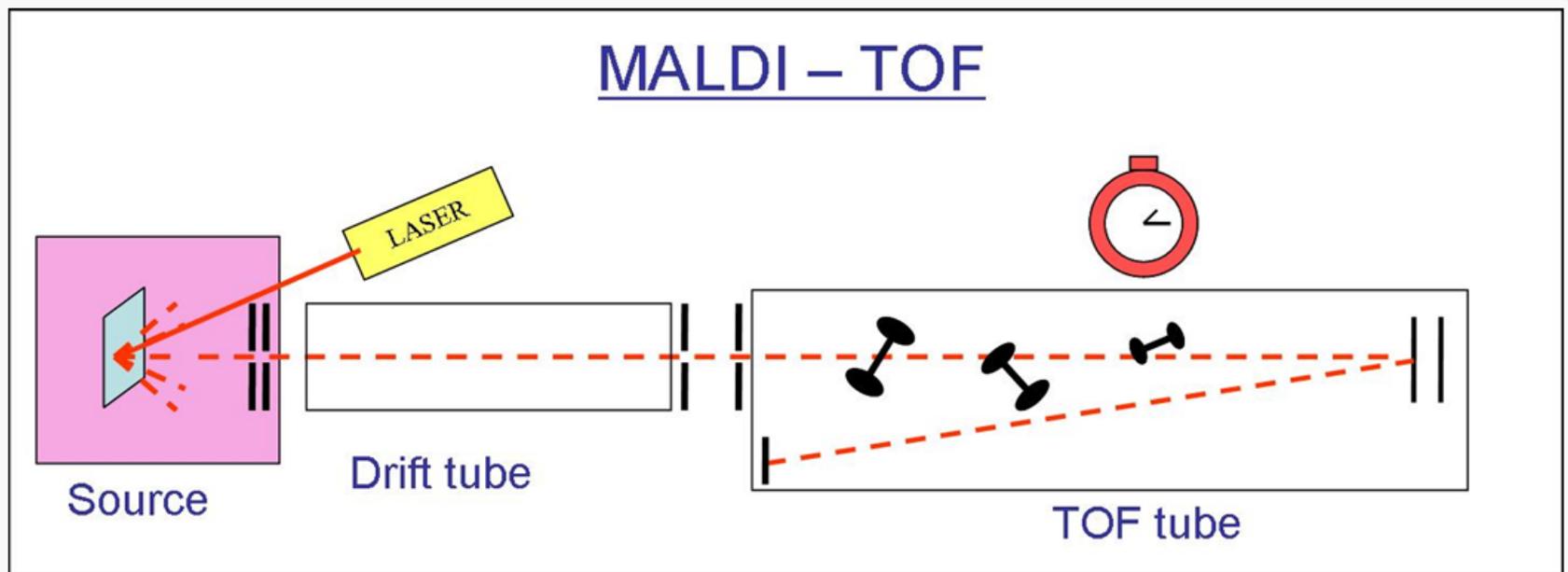




MALDI-TOF-MS

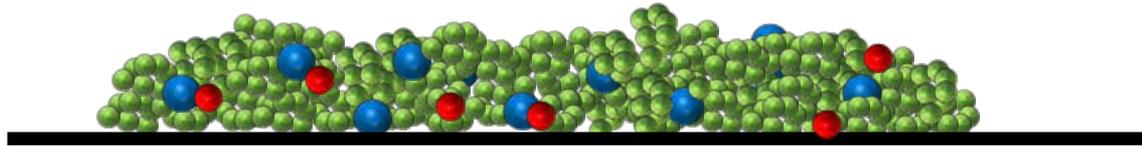
- MALDI
 - n Matrix Assisted Laser Desorption Ionization
 - Ionizes Analytes
- TOF-MS
 - n Time of Flight Mass Spectrometry
 - Separates ions based on mass

Instrumentation



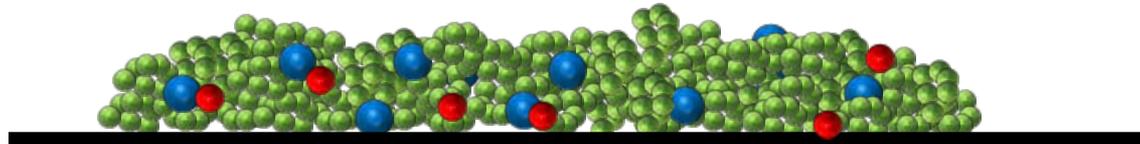
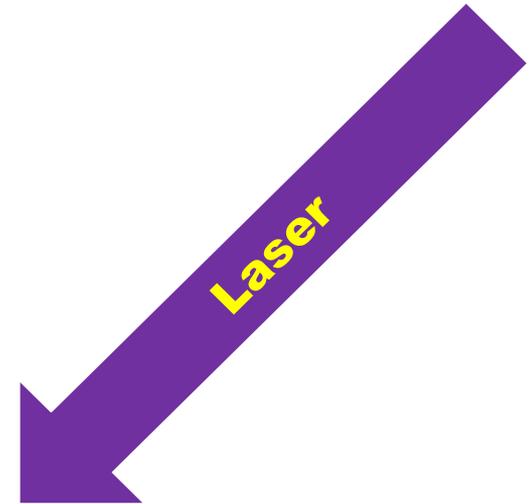
Sample on Plate

- = Matrix
- = Media
- = Bacterium



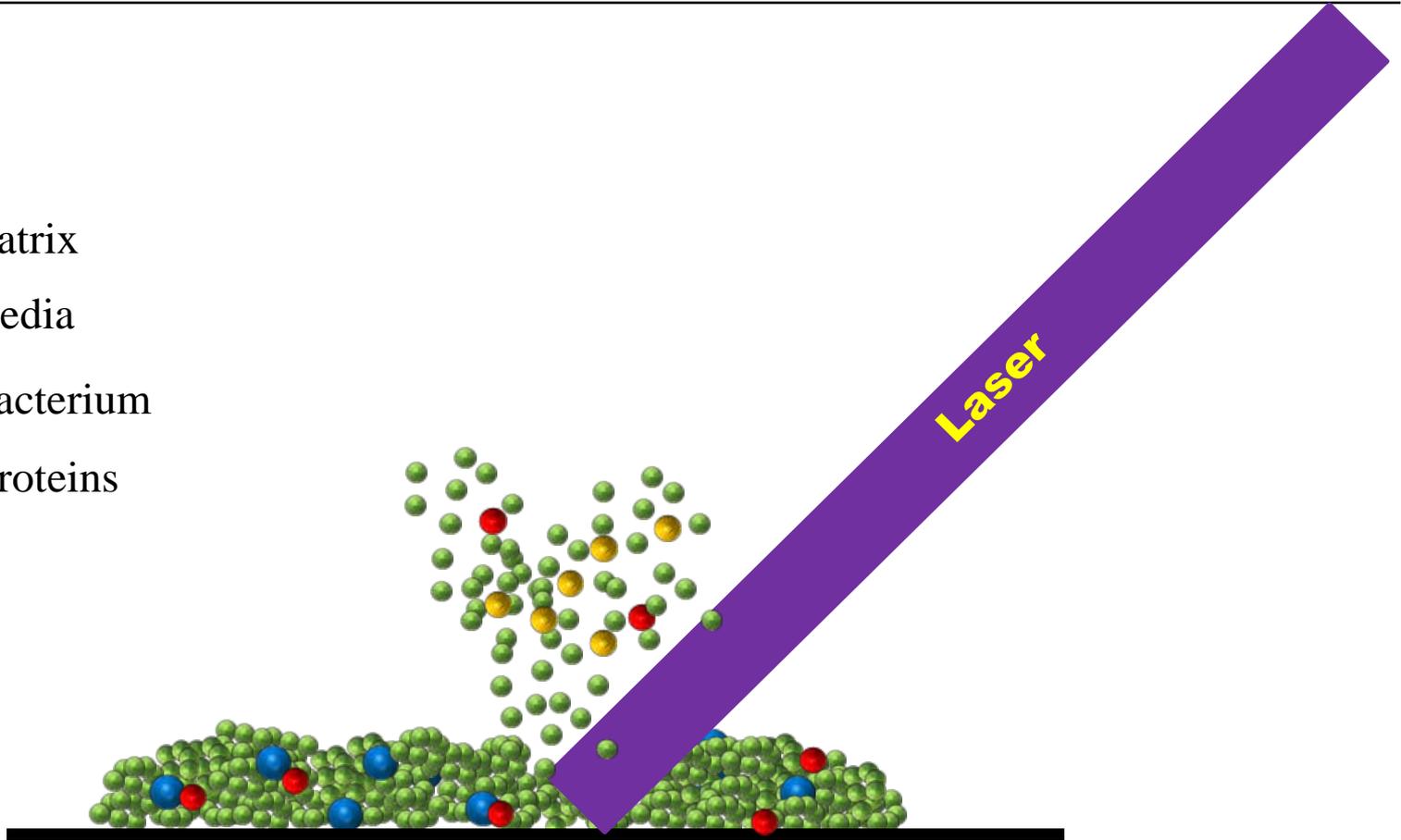
Fire Laser

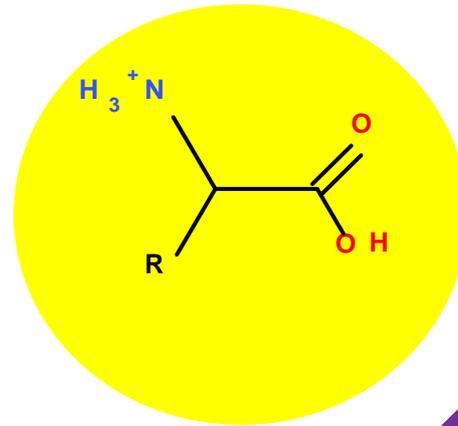
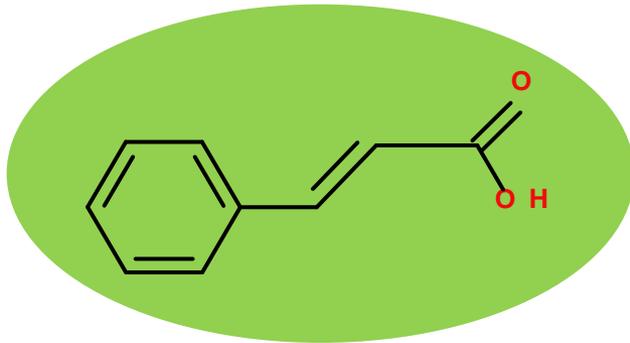
- = Matrix
- = Media
- = Bacterium



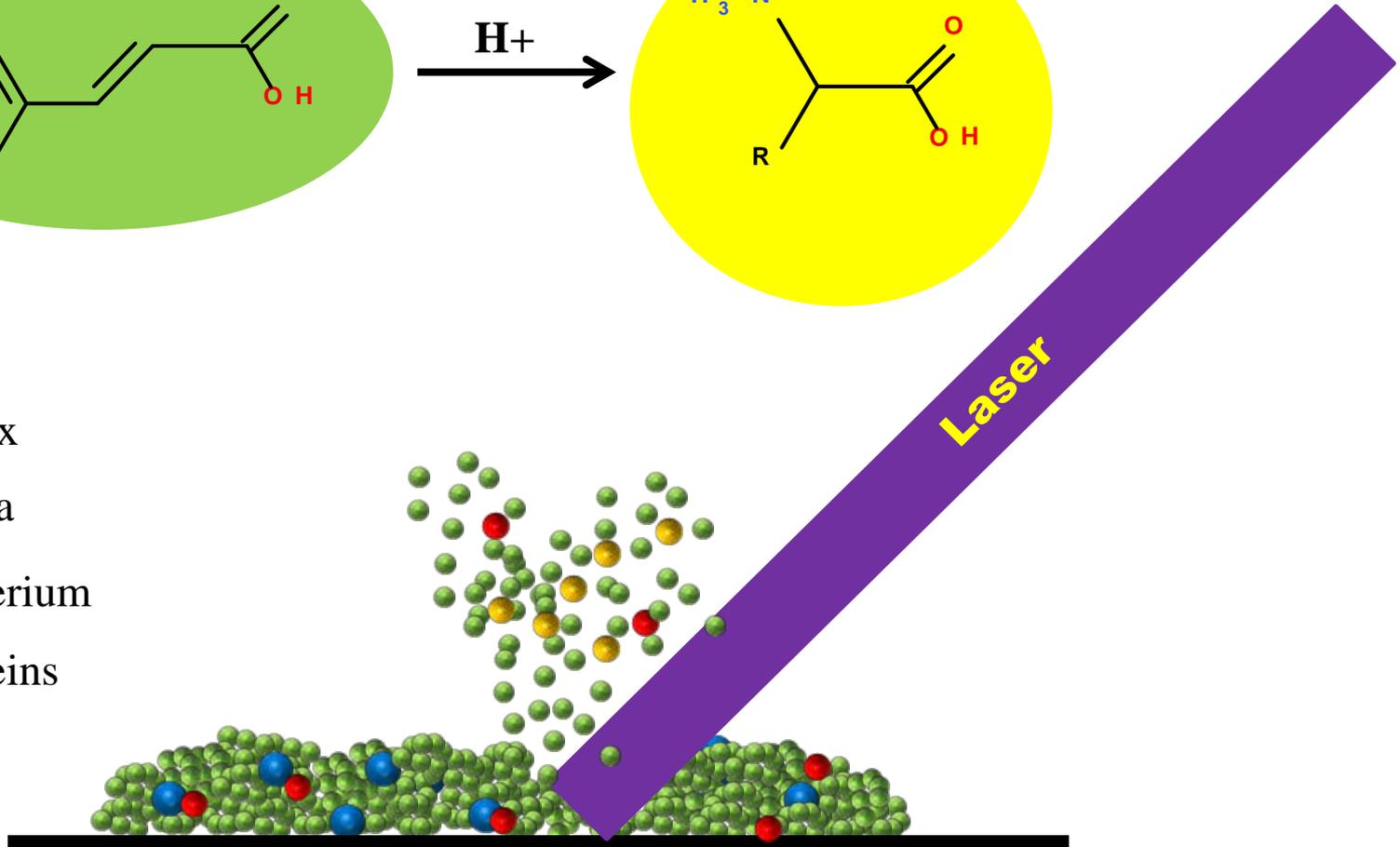
Desorption

- = Matrix
- = Media
- = Bacterium
- = Proteins

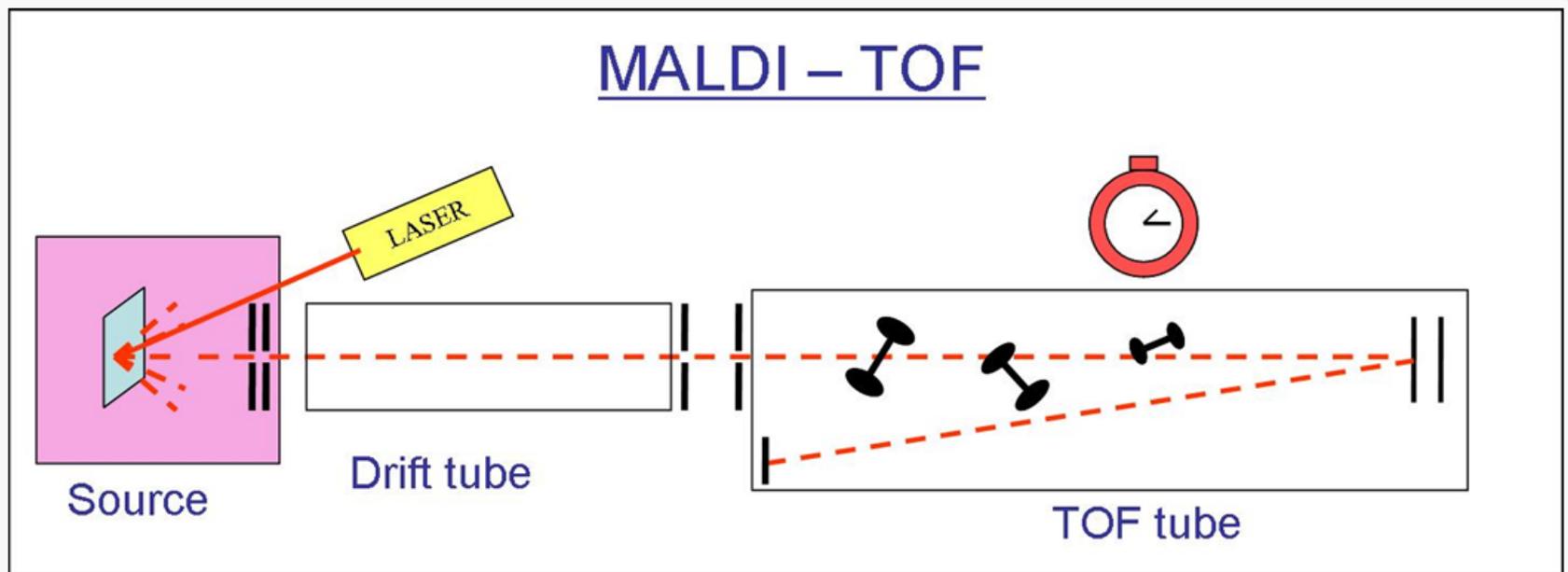




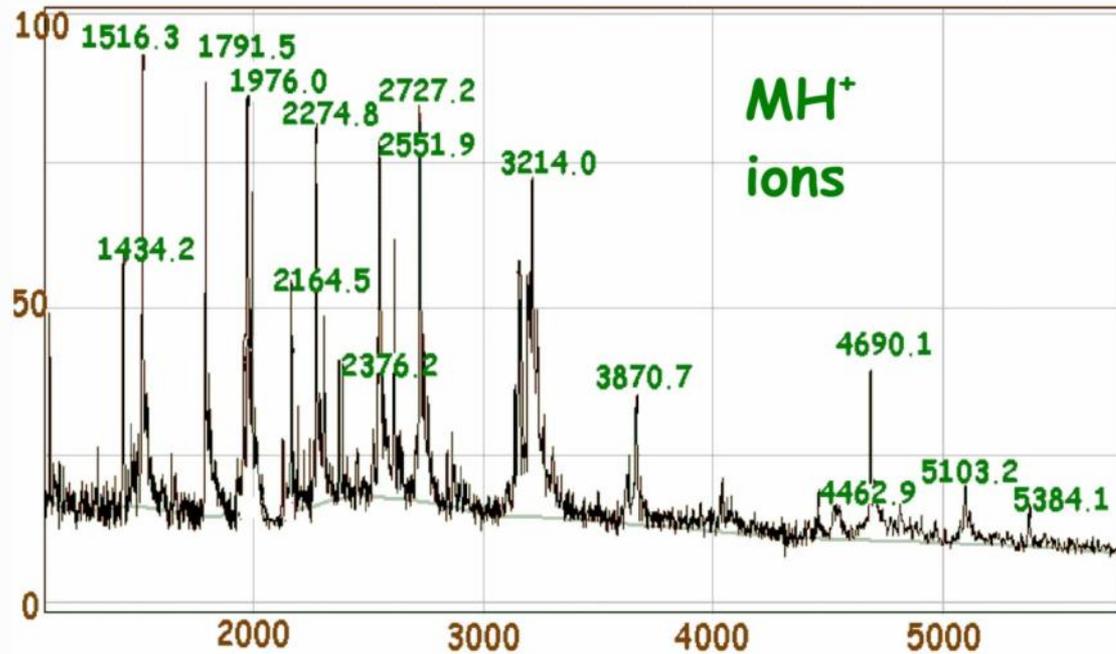
- = Matrix
- = Media
- = Bacterium
- = Proteins



Instrumentation



Spectrum



Positive ionization MALDI m/z spectrum of a peptide mixture using alpha-cyano-4-hydroxycinnamic acid as matrix



Movie
