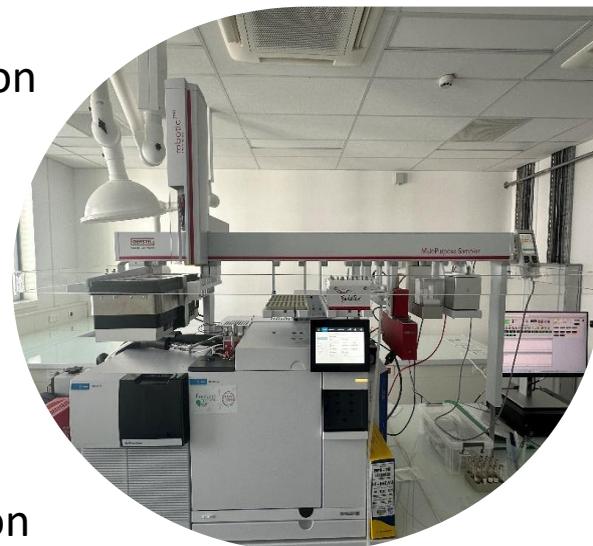


Volatilomics

Gerstel MPS® Pro (derivatization) – DHS – Agilent 8890/7010C GC–MSD: High-end system combining an automated extraction and concentration unit with a gas chromatograph coupled to a mass spectrometer for volatilomics analyses.

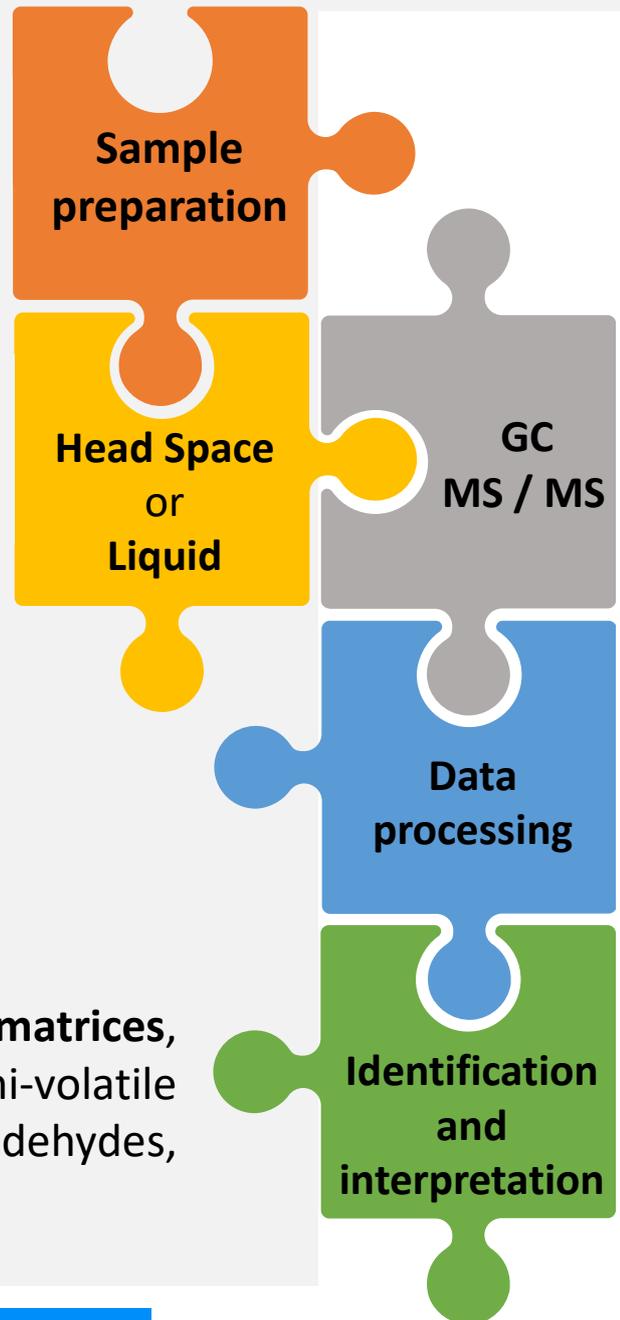
Technical Features:

- **Automatic Concentrator Extractor:** complete aromatic profiles of complex matrices.
- **Dynamic Headspace (DHS):** Efficient extraction of volatile compounds.
- **Thermal Desorption Unit (TDU) and Cooling Injection System (CIS):** Optimal desorption and cryofocusing.
- **Triple Quadrupole Technology (GC-MS TQ):** Improved sensitivity and accurate quantitation of trace molecules.
- **Extended mass range:** From 10 to 1050 uma, allowing a wide coverage of volatile compound analysis.



Applications

- Volatile analyses (aromatic profile) with **DHS** (Dynamic Headspace) or **Twisters®** (SBSE)
- **Liquid injection analyses:** qualification and quantification of small, low-volatility or volatile molecules.
- **Automation of sample preparation:** reduces manual preparation steps and improves reproducibility.



- **Analysis of fermented plant and animal matrices,** with identification of volatile and semi-volatile compounds such as alcohols, ketones, aldehydes, etc.



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