

Metabolomics platform of the West of France

The scientific skills and technologies of Corsaire

Our scope of applications



Sea water, fishes, shellfishes, algae, microorganisms, growing medium



Seeds, leaf, roots, buds, tubers of plants and vegetal extracts

Animal and human biofluids, tissues, feces, cell lysates

Our approaches Metabolic profiling

Targeted (fatty acids, amino acids, sugars, COVs, phyto-hormones, sterols, endocrine disruptors...).
Untargeted (metabolomics or lipidomics)

Structural elucidation



- Metabolites
- Toxins
- Markers of exposure or effect

Isotopic analysisFluxomics

Our analytical methods

- Mass spectrometry
- Paired with LC, GC, SFC
- EI, CI, ESI, APCI

• MS, MS/MS, MSⁿ detection, HRMS, MS/HRMS

Nuclear Magnetic Resonance

- 1D: ¹H, ¹³C, ¹⁵N
- 2D: ¹H-¹H, ¹H-¹³C, ¹H-¹⁵N, fast quantitative 2D

Chemometrics

- Data processing
- Galaxy-W4M

 Univariate and multivariate statistical analysis for biomarkers identification

Services

Corsaire holds cutting-edge technologies and various skills and can offer you, whether you are from academia or industry:

 \checkmark to perform your analysis,

 \checkmark to access the instruments,

 \checkmark to provide training on their use.



Complementary analytical skills

Arine environment

Agronomy

Agronomy

Aimal and human health

Corsaire gathers several teams which present complementary skills around NMR and MS-based metabolomics and which can be applied to marine environmental, agronomy and health research.

Networks & Trainings

Contacts

Corsaire is involved in the Structural and Metabolomics Analysis Network of Biogenouest as well as the French Network of Metabolomics & Fluxomics (RFMF) and collaborates with MetaboHUB.

Corsaire also participates to doctoral training (doctoral school of Bretagne and Pays de la Loire regions) and several Master's degree such as A3M, P²AON or BAS, spread all over the West of France

Scientific directors:

Alain Bouchereau & Bruno Le Bizec

For further information or request: contact-corsaire@biogenouest.org

www.pf-corsaire.org





