

# Platform of Exploration of Metabolism (PFEM)

## About us

Platform of "Exploration of Metabolism" (PFEM) is a technological and scientific platform that supports metabolomic and proteomic projects. This INRAE-UCA joint infrastructure obtained the French IBiSA labelisation in 2013 and NF X50-900 certification in 2015. PFEM is member of the French National Facility in metabolomics and proteomics (PIA) MetaboHUB (MTH ; [www.metabohub.fr](http://www.metabohub.fr)) wich aims to develop tools, methodologies and support major projects involving metabolomic and fluxomic approaches.

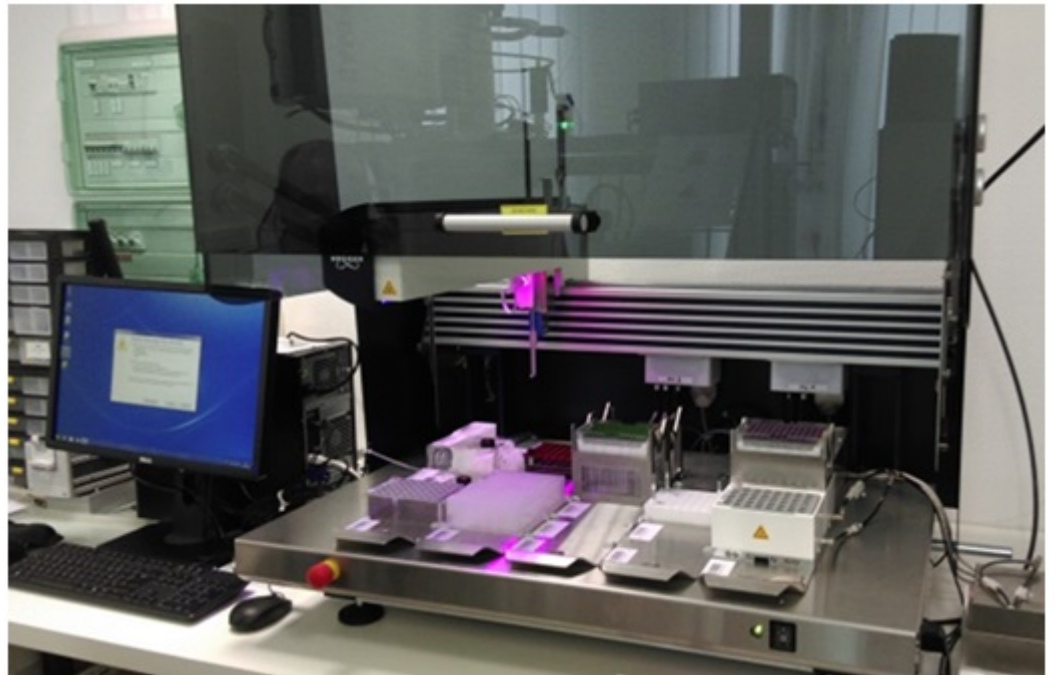
## Our services

Analysis of biological fluids (urine, plasma, microorganism extracts ...) by LC-MS / NMR. Standardized and automated sample preparation.

- Determination of metabolic profiles by LC-MS/NMR
- Data set processing and statistic studies.
- Identification of biomarkers by LC-MSMS and 2D NMR
- LC-NMR analysis

## Equipments

- Robot for sample preparation for LC-MS and NMR analysis



- ESI-ToF mass spectrometer, (microTOF Bruker) coupled to a Fast-LC (1200 series, Agilent)





- AVANCE III Ultrashield NMR spectrometer equipped with a cryoprobe (Bruker)



Plate-Forme

EXPLORATION METABOLISME



[\\_\(https://www6.clermont.inrae.fr](https://www6.clermont.inrae.fr)

PFEM

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[Website\(https://www6.ara.inra.fr/plateforme\\_exploration\\_metabolisme/Presentation\)](https://www6.ara.inra.fr/plateforme_exploration_metabolisme/Presentation)

## Contacts

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## Partner laboratories



(<https://iccf.uca.fr/>)



Unité de Nutrition Humaine ([https://www6.clermont.inrae.fr/unh\\_eng/](https://www6.clermont.inrae.fr/unh_eng/))

INRAE

UCA  
UNIVERSITÉ  
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(<https://www6.clermont.inra.fr/unh/>)



<http://workflow4metabolomics.org/>



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<https://partner.uca.fr/english-version/our-area-of-expertise/biology-and-health-technologies/platform-of-exploration-of-metabolism-pfem>(<https://partner.uca.fr/english-version/our-area-of-expertise/biology-and-health-technologies/platform-of-exploration-of-metabolism-pfem>)