



***Patrick ENGLAND***  
*Head of the Molecular Biophysics platform  
of Institut Pasteur Paris  
and Scientific coordinator of MOSBRI*

The Centre for Technological Resources and Research  
of Institut Pasteur Paris  
and MOSBRI  
the European Molecular Biophysics Research Infrastructure

## The Direction of Technology is organised in four centres

**Centre for Technological Resources  
and Research**

**Centre for Animal Resources  
and Research**

**Centre for Biological Resources**

**Centre for Scientific Bioinformatics  
Resources and Research**

20 core facilities; headed by Spencer SHORTE  
open to everyone in the Pasteur Network at any time !

UTECHS PLATFORM  
Cytometry and Biomarkers  
(UTechS CB)



Milena Hasan

UTECHS  
Mass Spectrometry for  
Biology



Julia Chamot-Rooke

UTECHS PLATFORM  
Photonic Biolmaging (UTechS  
PBI)



Spencer Shorte

PLATFORM  
Biomaterials and  
Microfluidics



Samy Gobaa

PLATFORM  
Biological NMR Technological  
Platform



Iñaki Guijarro

PLATFORM  
Proteomics



Mariette Matondo

UTECHS PLATFORM  
Ultrastructural Biolmaging  
(UTechS UBI)



Guillaume Dumenil

PLATFORM  
Biomics



Marc Monot

PLATFORM  
Molecular Biophysics



Patrick England

PLATFORM  
Cytometry Platform



Sophie Novault

PLATFORM  
Image Analysis Hub



Jean-Yves Tinevez

PLATFORM  
Tech Lab



Michael Nilges

PLATFORM  
Crystallography



Ahmed Haouz

PLATFORM  
Antibody Engineering



Pierre Lafaye

PLATFORM  
Chemogenomic and  
Biological Screening Platform  
(PF-CCB)



Fabrice Agou

PLATFORM  
Nanolmaging Core



Matthijn Vos

PLATFORM  
Production and Purification  
of Recombinant Proteins  
Technological Platform



Stéphane Petres

PLATFORM  
HPC Core Facility



Youssef Ghorbal

PLATFORM  
Metabolomics Core Facility



Sandrine Aros

PLATFORM  
Diagnostic Test Innovation  
and Development Core  
Facility



Thierry Rose



# PASTEUR NETWORK



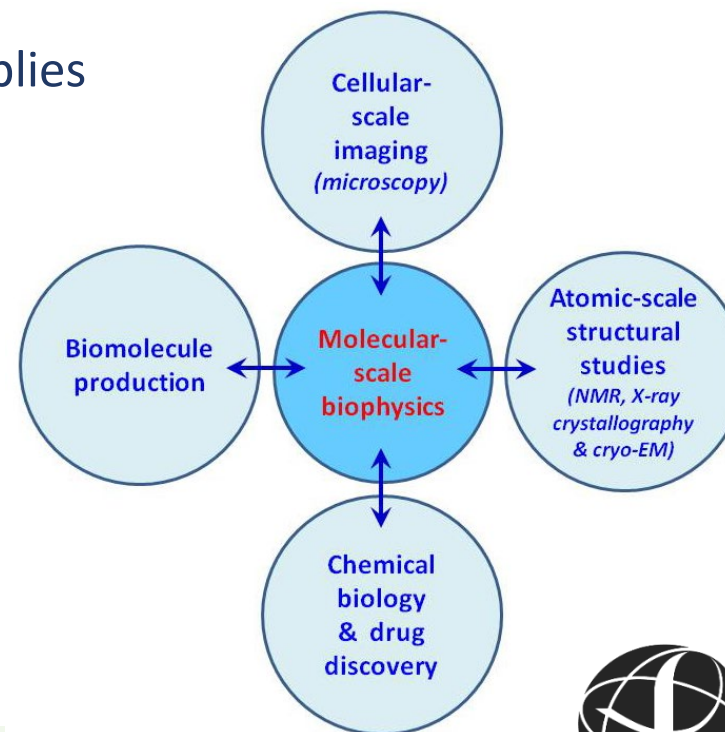
Plateforme de Biophysique des Macromolécules  
et de leurs Interactions

# The Molecular Biophysics Core facility

“Between atom and cell”



► A dynamic interdisciplinary field  
that aims to study biological macromolecules and assemblies  
at an intermediate level  
between atomic-resolution structural descriptions  
and cellular-scale observations



**PASTEUR  
NETWORK**





*Plateforme de Biophysique des Macromolécules  
et de leurs Interactions*

# The Molecular Biophysics Core facility

created in 2002

- \* 14 technologies and 18 instruments
- \* 6 full-time experts at your service

4 levels  
of  
activities

**Standard « ready made » services**

**Training and instrument allocation**

**Collaborative projects**

**Methodological research**



**PASTEUR  
NETWORK**

## *Some of the questions that can be answered*

Size, shape  
and architecture  
of macromolecules  
and molecular assemblies

Thermodynamic and kinetic properties  
of molecular interactions

Stability of biological macromolecules  
over time  
and vs temperature and chemical reagents

Conformational dynamics  
of macromolecules  
and macromolecular assemblies

Homogeneity and aggregation  
of biological molecules

Secondary and tertiary folding  
of macromolecules

*Whatever question you have about your biological macromolecules,  
don't hesitate to write to [biophysique@pasteur.fr](mailto:biophysique@pasteur.fr)*



**PASTEUR  
NETWORK**

## How to access ?

### Physical or remote access

*supported by Pasteur Network funds*



*or by the MOSBRI European project  
that I coordinate*

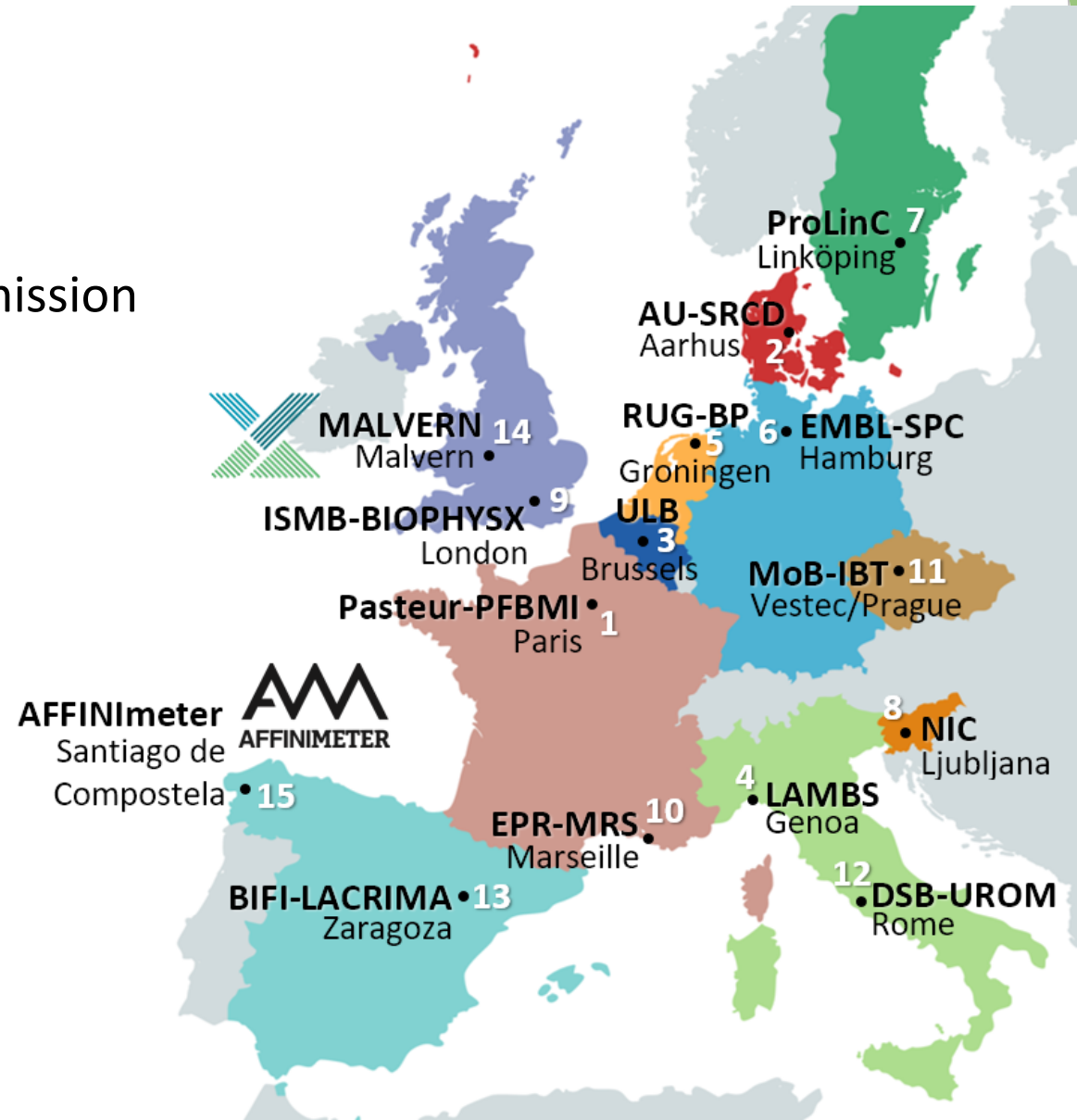


[www.mosbri.eu](http://www.mosbri.eu)

# What is MOSBRI?

A project funded by the European Commission  
Horizon 2020 framework program

- ▶ Started in July 2021 (duration: 4 years)
- ▶ 15 partners from 11 countries  
(13 academic, 2 industrial)
- ▶ Co-ordinated by  
Institut Pasteur Paris  
(and involving a partner  
associated to Institut Pasteur Rome)

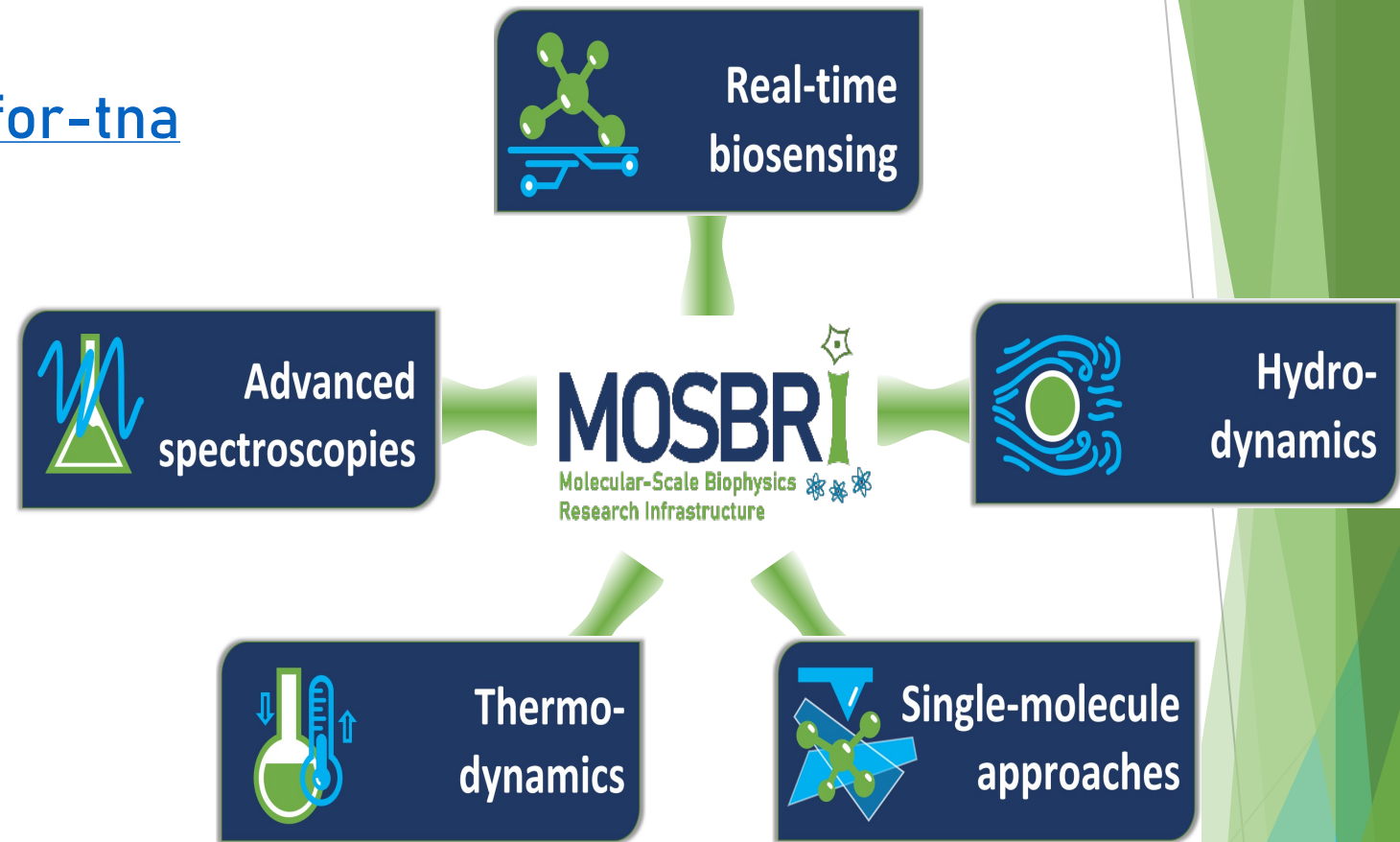




# Transnational access to instrumentation and expertise (TNA)

[www.mosbri.eu/apply-for-tna](http://www.mosbri.eu/apply-for-tna)

- ▶ Applications can be received at any time through the MOSBRI website and reviewed in less than 15 days
- ▶ Average duration of TNA visits : 2 weeks
- ▶ **Free of charge access to:** instrumentation, methodological pipelines, products or “project maturation”



**Access is not limited to scientists working in Europe !**

[www.mosbri.eu](http://www.mosbri.eu)

Keep updated  
by subscribing  
to our Newsletter

MOSBRI also organizes  
training schools and conferences  
open to all



Institut Pasteur Paris also coordinates  
another European research infrastructure (**INFRAVEC2**, insect vectors)  
and is involved in three other ones:  
**EPIC-XS** (Proteomics), **EUROBIOIMAGING** (microscopy)  
and **MIRRI** (Microbial Resources)