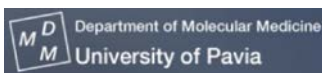


The newly established PASS-BioMed facility
(Piattaforma Avanzata per la Strumentazione
Scientifica di Area Bio-Medica)
at the University of Pavia features state-of-the-
art instrumentation in the fields of:

- **Cryo-Electron Microscopy (Cryo-EM)**
- **Nuclear Magnetic Resonance (NMR)**
- **High Performance Computing (HPC)**
- **High Resolution Mass Spectrometry (HRMS)**
- **Magnetic Resonance Imaging (MRI)**
- **Micro-CT Imaging**
- **Super-Resolution Optical Microscopy**

Organizers:

M. Freccero, F. Forneris, A. Mattevi, E.
Gherardi, G. Colombo, L. Pavarino, V. Bellotti,
M. Biggiogera



Dipartimento di Matematica
"F. Casorati"



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Info and contacts:

<https://tinyurl.com/PV-PassBioMed/>



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**Inaugural Symposium
of the
PASS-BioMed facilities**



Scientific session:

Friday, 28 February 2020, 09:00 – 15:30
Aula Magna del Collegio Nuovo -
Fondazione Sandra ed Enea Mattei
Via Abbiategrasso 404, 27100 Pavia

Inauguration party:

Friday, 28 February 2020, 16:00 – 17:30
Dept. Biology and Biotechnology
Golgi-Spallanzani Building
Via Ferrata 9/A, 27100 Pavia

Free Participation!

**Guided visit to the facilities
during the inauguration party**

Electron Microscopy

200kV ThermoFisher Glacios Cryo-Transmission Electron (Cryo-TEM) Microscope with Falcon3 DED
120kV JEOL JEM-1200EX II Transmission Electron Microscope

Mass Spectrometry

AB Sciex X500B High Resolution QTOF mass spectrometer

Nuclear Magnetic Resonance

700MHz BrukerAvance III NMR spectrometer equipped with cryo-probe

High Performance Computing

EOS HPC cluster

Light Microscopy

Leica TCS SP8 Digital Light Sheet (DLS) Microscope
Leica TCS SP8 STED (Stimulated Emission Depletion) Microscope
Leica DMI8 S TIRF (Total Internal Reflection Fluorescence) Microscope

Cytometry and Single Cell Analysis

BD FACS Lyric flow cytometer
BD FACS Aria III sorter
ImageStream X MarkII Imaging flow cytometer (Amnis)

In vivo Imaging

Bruker SkyScan 1276 High Resolution In-Vivo X-Ray Microtomograph (MicroCT)
7T Bruker PharmaScan 70/16 US MRI (Magnetic Resonance Imaging) Tomograph

Scientific session:

Friday, 28 February 2020, 09:00 – 15:30

Aula Magna del Collegio Nuovo - Fondazione Sandra ed Enea Mattei

09:00 - 09:20	<i>Arrival and registration, welcome coffee offered by Collegio Nuovo</i>
09:20 - 09:35	Welcome address by Mauro Freccero , Deputy Rector for Research
09:35 - 10:25	Titia Sixma (chair: Andrea Mattevi) Stepping through DNA mismatch repair initiation
10:25 - 11:15	Piet Gros (chair: Federico Forneris) Structural insights into the molecular mechanisms of complement activation and regulation
11:15 - 12:05	Modesto Orozco (chair: Giorgio Colombo) Multiscale simulation of DNA. From the electron to the chromosome
12:05 - 13:15	<i>Light Lunch</i>
13:15 - 13:55	John Christodoulou (chairs: Giorgio Colombo, Alessandra Corazza) Protein Folding on the Ribosome
13:55 - 14:45	Alfonso De Simone (chairs: Giorgio Colombo, Alessandra Corazza) Transient interactions by α -synuclein in functional and pathological contexts
14:45 - 15:35	Cristoph Cremer (chair: Marco Biggiogera) SIBBM LECTURE: Super-Resolution Microscopy of Genome Nanostructure

Inauguration party:

Friday, 28 February 2020, 16:00 – 17:30

Dept. Biology and Biotechnology - Golgi-Spallanzani Building

16:00 - 17:30	Inauguration Ceremony of the PassBioMed facilities, in the presence of Prof. Francesco Svelto , rector of the University of Pavia, and guided visits to the new facilities
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The lunch break and the inauguration ceremony are organized in collaboration with Istituto Alberghiero Cossa