

Molecular Scale Biophysics

Explore the world of biological macromolecules through a cutting-edge, multidisciplinary biophysics program

Blended Intensive Program 5th edition
Aix-Marseille University
Feb-June 2027



<https://civis-agora.widening.eu/bip>



SAPIENZA
UNIVERSITÀ DI ROMA



Stockholm
University

What is a BIP (Blended Intensive Program)?

A blend of virtual and physical mobility

Virtual mobility (Feb 15 until April 22nd, 2027) - 3ECTS

Planning

When: Meeting twice a week online (Monday and Thursday, 6pm central time)

What: either a live Zoom class or a pre-recorded video.

Where: Zoom link and Moodle website

Evaluation

A series of homework assignments after each chapter/method.

Physical mobility (summer school May 31 – June 4, 2027) - 3ECTS

Practical details

When: May 31 – June 4, 2027

Where: in Marseille @ IM2B institute, La Timone Medicine Campus, Luminy Campus, and CRCM

How: ERASMUS+ will give some money for travel

We try to organize student housing and additional funding for travel

What is Molecular Scale Biophysics?

A very broad subject:

Study **molecular properties** and **molecular function** by using a wide variety of physics-based techniques

- **Advanced spectroscopies:**

- Fourier Transform Infra-red (virtual and summer school)
- Electron Paramagnetic Resonance (virtual and summer school)
- Fluorescence (summer school)
- Rapid kinetics (virtual and summer school)

- **Hydrodynamic techniques:**

- Analytical UltraCentrifugation (virtual, summer school)
- Dynamic Light Scattering (summer school)

- **Thermodynamics techniques:**

- Differential Scanning Calorimetry (virtual)
- Iso Thermal Calorimetry (virtual and summer school)
- Differential Scanning Fluorimetry (virtual and summer school)

- **Real-time biosensing techniques:**

- BioLayer Interferometry (summer school)

- **Single-molecule methods:**

- Atomic Force Microscopy (virtual and summer school)

Who are you?

Master or PhD students

Interested in biochemical and biophysical methods

Students from ALL CIVIS universities:

- Sapienza Università di Roma (Italy)
- Eberhard Karls Universität Tübingen (Germany)
- Université de Lausanne (Switzerland)
- National and Kapodistrian University of Athens (Greece)
- University of Bucharest (Romania)
- Aix-Marseille University (France)
- Stockholm University (Sweden)
- Paris Lodron University Salzburg (Austria)
-

Who are we?

Professors and researchers

Passionate about biophysical methods

From multiple CIVIS universities:

- Sapienza Università di Roma (Italy)
- Stockholm University (Sweden)
- Université Libre de Bruxelles (Belgium)
- Aix-Marseille University (France)

Summer School in Marseille (May 31-June 4, 2027)



CRCM – Institut Paoli Calmettes

The Medicine and
Pharmaceutical School
Campus La Timone



The Aix-Marseille University - Luminy Campus



IM2B Institute
Campus CNRS Joseph Aiguier

Summer School in Marseille (May 31-June 4, 2027)



IM2B Institute, Campus CNRS Joseph Aiguier

CJA: Campus Joseph Aiguier

Nearby bus lines:
48, 48T, B1



Summer School in Marseille (May 31-June 4, 2027)

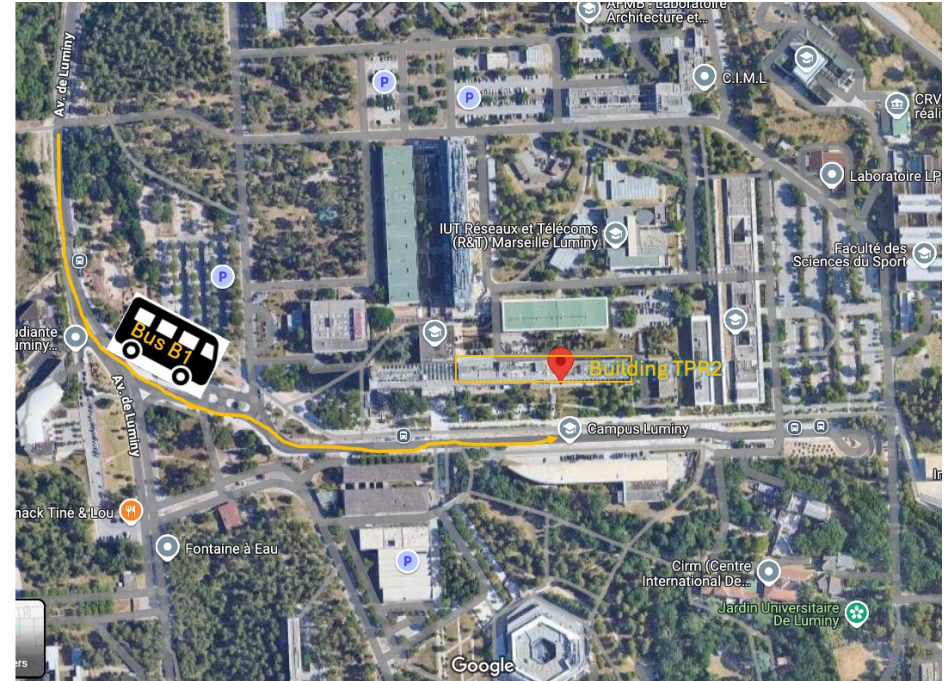


The Aix-Marseille University- Luminy Campus

Campus Luminy

Take the bus B1, stop
« Campus Luminy »

Time to/from Campus
CJA: ~22-30 min



Summer School in Marseille (May 31-June 4, 2027)



The Medicine and Pharmaceutical School
Campus La Timone

Campus Timone

Nearby bus lines: 72, 91, 540, N1
Nearby Metro: M1

Time to/from Campus CJA:
~45 min



Summer School in Marseille (May 31-June 4, 2027)

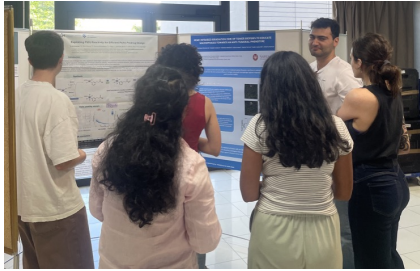


CRCM – Institut Paoli Calmettes



Time from Campus CJA: 10 min walk

Summer School in Marseille (May 31 – June 4, 2027)



Example schedule for the summer school

		Monday	Tuesday	Wednesday	Thursday	Friday
9h00-9h30		Welcome				
9h30-10h30						
10h30-11h30; 11h30-12h30		Presentations of the biological study system and other techniques BLI/DLS/MST	Workshop 2	Workshop 4	Workshop 6	Data analysis and report presentation, feedback and discussion
12h30-14h00		Lunch	Lunch	Lunch	Lunch	Lunch
14h00-17h00		Workshop 1	Workshop 3	Workshop 5	Workshop 7	Reports and admin
17h30-21h00		Poster session and cocktail				Outing in Marseille and Dinner

Things to do in Marseille

MUCEM museum



Palais Longchamp



Vieux Port



The Velodrome stadium



Things to do in Marseille

Frioul Island



The Calanques near Luminy Campus



Marseille public transportation map

Trains arrive at SNCF train Station in St-Charles

Luminy campus: B1 bus terminus

Timone campus: Metro M1 (Timone)



Marseille tourist map



Lignes desservant les principaux sites touristiques

Lines that serve the main touristic sites / Líneas de servicio por los principales sitios turísticos

Bus 5 (Métro La Rose / La Parade)	Bus 49 (Canebière Bourse / Réformés Canebière)
Bus 19 (Métro Castellane / Madrague de Montredon)	Bus 51 (La Valentine centre commercial - La Reynerie)
Bus 20 (Métro Rond Point du Prado / Madrague de Montredon)	Bus 54 (Catalans / Métro La Timone)
Bus 21 (Métro Castellane / Luminy)	Bus 55 (Joliette / Roucas Blanc)
Bus 22 (Métro Rond Point du Prado / Les Baumettes)	Bus 60 (Fort Saint Jean / Notre Dame de la Garde)
Bus 23 (Métro Rond Point du Prado / Beauvallon)	Bus 61 (Canebière Bourse / Bompard)
Bus 24 (Métro Sainte Marguerite Dromel / Luminy)	Bus 80 (Canebière Bourse / Eglise d'Endoume)
Bus 33 (Réformés Canebière / Faculté St Jérôme)	Bus 81 (Le Pharo / Métro Saint Just)
Bus 34 (Réformés Canebière / Le Médan)	Bus 82 (Canebière Bourse / Euromed Arenç)
Bus 35 (Joliette - Estaque Rioux / Plage de Corbières)	Bus 82s (Canebière Bourse / Gare Saint Charles)
Bus 45 (Métro Rond Point du Prado / Marseilleveyre)	Bus 83 (Canebière Vieux Port / Métro Rond Point du Prado)

VENTE A BORD / SALE ON BOARD / VENTA A BORDO

NAVETTES MARITIMES

23 AVRIL AU 25 SEPTEMBRE 2016
 Vieux Port ↔ Pointe Rouge 5€
 Vieux Port ↔ L'Estaque 5€

25 JUIN AU 28 AOUT 2016
 Pointe Rouge ↔ Les Goudes 5€
 Vieux Port ↔ Les Goudes 8€
 (en correspondance à la Pointe Rouge)

Ferry Boat (traversée Vieux Port) 0,50€
 Toute l'année (hors 1er mai)

M Métro 1 La Rose / La Fourragère
M Métro 2 Bougainville / Ste-Marguerite Dromel
T Tram 1 Noailles / Les Caillols
T Tram 2 Arenç-Le Silo / La Blancarde
T Tram 3 Arenç-Le Silo / Carpiagne

Réseau de nuit : Bus, métro, tram jusqu'à 01h30
 Bus 145/509/518/521/526/530/533/535/540/542/543

Horaires et plans de lignes sur www.marseille.fr

Pass : Valables sur tous les réseaux RTM et les lignes Transmétropole (voir liste et exceptions sur www.marseille.fr)

*derniers départs terminus : Bus → 01h45, métro et tram → 01h30