



# Dynapeutics International Summer School



**30.Sep - 04.Oct 2019**

**Cod. Z24-19**

**Mod.:**

Face-to-face

**Edition**

2019

**Activity type**

Workshop

**Date**

30.Sep - 04.Oct 2019

**Location**

Materials Physics Center (CSIC-UPV/EHU)

**Languages**

English

**Academic Validity**

50 hours

**Web**

<http://dynapeutics2019.dipc.org>

**Organising Committee**



## Description

The Course will consist of several seminars and computer practicals that will cover the main concepts introduced in the seminars. The school is part of a wider initiative "[Passion For Knowledge](#)" that will take to San Sebastian leading scientist around the world to share their research experience. The participants, therefore, will also benefit from an outstanding atmosphere and social activities around the school that will remark the links between science and society, in its more general sense.

The subjects covered in the school will be:

- Force fields
- Simulation methods overview
- Molecular Dynamics and Monte Carlo Methods
- Normal Mode Analysis
- Accelerated dynamics
- Free energy Calculations
- Continuum electrostatics
- Homology modeling
- Docking
- Drug design
- Quantum Chemistry and QM/MM methods

Organizing committee:

- Dr. Eider San Sebastian (Chairwoman) (UPV/EHU)
- Prof. Xabier Lopez (Chairman) (UPV/EHU and DIPC)
- Dr. Elixabete Rezabal (UPV/EHU and DIPC)
- Dr. Elena Formoso (UPV/EHU and DIPC)
- Dr. Rafael Grande-Aztatzi (UPV/EHU and DIPC)
- Dr. David de Sancho (UPV/EHU and DIPC)
- Dr. Jose M. Mercero (UPV/EHU and DIPC)

## Objectives

To give a theoretical and practical introduction to computational methods for biological molecules, relevant for the understanding of biological processes at the molecular level, and specially useful for the design and optimization of molecular drugs.

## Course specific contributors



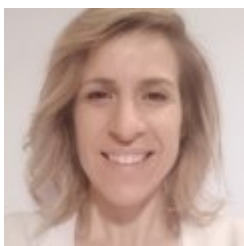
## Directed by



**Xabier Lopez Pestaña**

UPV/EHU. Facultad de Ciencias Químicas

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**Eider San Sebastian Larzabal**

UPV/EHU

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# Registration fees

REGISTRATION FEES	UNTIL 30-09-2019
INVITED SPEAKER / ORGANIZERS	0 EUR
REGULAR ATTENDANT	250,00 EUR

## **Place**

### **Materials Physics Center (CSIC-UPV/EHU)**

Manuel de Lardizabal, 4. 20018 Donostia / San Sebastián

Gipuzkoa