



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

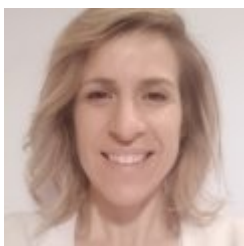


Directed by



Xabier Lopez Pestaña

UPV/EHU. Facultad de Ciencias Químicas



Eider San Sebastian Larzabal

UPV/EHU

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