



# BITS OF ADVANCED NANOBIOSCIENCE *in the Madrid area*



6th February, 2023  
Auditorium, Centro Nacional de Biotecnología  
Campus Cantoblanco. UAM

## CONFIRMED SPEAKERS

**Montserrat Calleja** IMN-CSIC Mechanical Sensors and Devices

**Borja Ibarra** IMDEA Nanociencia Single-Molecule Biophysics

**Oscar Llorca** CNIO Structural Biology of Molecular Machines

**Cristina Flors** IMDEA Nanociencia Super-resolution Fluorescence Microscopy

**Jorge Alegre-Cebollada** CNIC Mechanobiology

**Fernando Moreno-Herrero** CNB-CSIC Single-Molecule Biophysics

## PROGRAMME

9:20 Arrival. Welcome words

9:30 **Fernando Moreno-Herrero** CNB-CSIC *Molecular biophysics of DNA handling machines*

10:00 **Borja Ibarra** IMDEA Nanociencia *Optical tweezers to force information out of biological and synthetic systems*

10:30 **Montserrat Calleja** IMN-CSIC *Nanomechanical sensors for applications in biology*

11:00 **Oscar Llorca** CNIO *Using cryo-electron microscopy to study molecular mechanisms in cancer*

11:30 Coffee Break

12:00 **Cristina Flors** IMDEA Nanociencia *Advanced combinations of fluorescence and atomic force microscopy to study Biology at the nanoscale*

12:30 **Jorge Alegre-Cebollada** CNIC *Protein nanomechanics in the physiology of the heart*

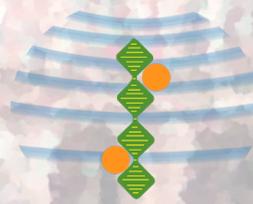
13:00 **Susana de Lucas** CNB *CNB guided tour*

14:00 Closing. Farewell words

**Organisers:** Fernando Moreno-Herrero, Ana G. del Arco, and Susana de Lucas

**Contact:** fernando.moreno@cnb.csic.es  
www.fernandomorenoherrero.com  
@FMorenoHerrero

This is an activity organized for the Study Trip Diffucie of  
S.V.N.B Hooke (Study Association for Nanobiology)  
TU-DELFT, The Netherlands



The Moreno-Herrero Lab