

THE STRUCTURE AND WORKINGS OF MOLECULAR MACHINES

INTERNATIONAL SYMPOSIUM

Monday, June 22nd, 2026

Centro Internacional del Español (CIE-USAL) · Salamanca, Spain

PROGRAMME

09:30 **Opening**

09:45 **Carlos Bustamante** University of California, Berkeley (USA)
"Can we understand how proteins fold?"

10:30 **Félix Ritort** University of Barcelona (Spain)
"Single-molecule heat capacities"

11:15 **Coffee break**

11:45 **Fernando Moreno** Centro Nacional de Biotecnología (CNB-CSIC), Madrid (Spain)
"Single-molecule analysis reveals a two-stage mechanism for FBH1-mediated replication fork reversal"

12:30 **Taekjip Ha** Harvard University (USA)
"Multimodal single molecule analysis of CTCF dynamics and regulation of cohesin barrier function"

13:15 **Oriol Nos** Impetux (Barcelona, Spain). Industry Talk
"From single molecules to cellulose and in vivo systems: Extending optical tweezers across scales"

13:45 **Free lunch**

15:30 **Dhirendra Singh** Thermo Fisher Scientific. Industry Talk
"Introducing Glacios 3- Recent advancements in 200 kV Cryo Electron Microscopy"

16:00 **Eva Nogales** University of California, Berkeley (USA)
"Cryo-EM to visualize the complex interplay between microtubules, their functional partners, and tubulin modifications"

16:45 **José M. Valpuesta** Centro Nacional de Biotecnología (CNB-CSIS), Madrid (Spain)
"Tyrosine hydroxylase: the workings of a flexible nanomachine"

17:15 **Coffee break**

17:45 **Elizabeth Villa** University of California, San Diego (USA)
"Discovering new phage biology using cryo-electron tomography"

18:30 **Adam Frost** Altos Labs (USA)
"Stress, Memory, Disorder: Exploiting Allostery for Allostasis"

19:15 **Open discussion**
Speakers, students and audience

19:45 **Closing remark**

Registration



Programa "Andrés Laguna"