

The Physics of Biological Systems:

From Biomolecular Nanomachines to Tissues and Organisms

10-15 JULY
2016

The goal of this Summer School is to explore how physical concepts and tools expand our understanding of the complex functions and organization of living systems. By bringing together leading scientists who work at the interface of both disciplines, the School will offer a comprehensive view of some of the more interesting open problems in Biology and how they can be approached (and experimentally tested) from a physics perspective.

The School is aimed at an interdisciplinary audience (biologists, physicists, mathematicians and engineers) interested in the quantitative description of biological phenomena.

TOPICS:

The School is organized in a series of topics (from the micro to the macro scale) with the unifying description of physical biology.

- The physics of biomolecules and assemblies
- Physical principles of biological networks
- Physics of tissues and organisms

REGISTRATION:

From February 7 to May 15

CONFIRMED SPEAKERS:

- Jordi García-Ojalvo (*U Pompeu-Fabra, Barcelona, Spain*)
- James Briscoe (*The Francis Crick Institute, London, UK*)
- Thomas Gregor (*Princeton University, USA*)
- Alfonso Martínez-Arias (*U of Cambridge, UK*)
- Pieter Rein ten Wolde (*AMOLF, Amsterdam, The Netherlands*)
- Jané Kondev (*Brandeis University, USA*)
- Kirill Korolev (*Boston University, USA*)
- Edo Kussell (*New York University, USA*)
- Lingchong You (*Duke University, USA*)
- José Onuchic (*Rice University, USA*)
- William A Eaton (*National Institutes of Health, USA*)
- Devarajan Thirumalai (*University of Texas Austin, USA*)
- George Lorimer (*University of Maryland, USA*)
- Yann Chemla (*University of Illinois at Urbana-Champaign, USA*)

Organizers: Raúl Guantes, David G. Míguez (UAM), Victor Muñoz (National Biotechnology Center)

Contact: Manuela Moreno (Secretary) manuela.moreno@uam.es

Web: www.nicolascabrera.es/summer-school-2016/

The school will be held at a cottage named "La Cristalera" (www.lacristalera.com), located close to "Miraflores de la Sierra", a small village 50 Km north of Madrid



Funded by:

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