



MPIPKS, Dresden, Germany
 IFISC, Palma de Mallorca, Spain



Trends in Complex Systems

International Workshop on Timing and Dynamics in Biological Systems

Dresden, September 27 - October 01, 2010

Scientific coordination:

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Biological rhythms attracted theorists long before the molecular era of modern biology, and important contributions from theoretical or geometrical reasoning. However, there is still remarkably little understood about how complex and stochastic dynamics of underlying molecular and cellular processes translates into temporally ordered macroscopic behavior. The coupling of biological oscillators provides an additional layer of rich phenomenology. This workshop aims to bring theorists and experimentalists together to learn about new conceptual and technical developments, to foster a common language, and to build bridges between experimental data on timing and theoretical explanations and methods. The workshop will focus on trying to identify principles of timing that are general biological strategies, regardless of the model system or the absolute timescale.

Invited speakers (* to be confirmed)

J.-P. Eckmann (Switzerland)

L. Edelstein-Keshet* (Canada)

J. García-Ojalvo (Spain)

M. González-Gaitán (Switzerland)

D. Gonze (Belgium)

A. Gould (UK)

M. Hastings (UK)

H. Herzel (Germany)

J. Howard (Germany)

L. Johnston (USA)

F. Jülicher (Germany)

R. Kageyama (Japan)

A. Kramer (Germany)

J. Lewis (UK)

M. Magnasco* (USA)

I. Mihalcescu (France)

L. Nicholson (USA)

F. Slack (USA)

J. Tyson (USA)

H. Ueda (Japan)

J. Vilar (Spain)

J. Wolf (Germany)

Applications for participation and contributions are welcome and should be made by using the form on the workshop webpage. The number of attendees is limited. The applicants' registration fee for the workshop is 100 Euro. Costs for accommodation will be covered during the workshop. Limited funding is available on request to partially cover travel expenses. Please note that childcare is available upon request.

Deadline for applications is June 15, 2010.

CONTACT:

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