

# Workshop on Mathematical Modelling of Biological Systems

28 April 2010



## Venue

Auditorium van de 2e Hoofdwet  
K.U.Leuven  
Kasteelpark Arenberg 41  
B-3001 Heverlee

## Admission

Free

## Registration

[http://homes.esat.kuleuven.be/~bioiuser/bioscenter/workshop\\_registration.php](http://homes.esat.kuleuven.be/~bioiuser/bioscenter/workshop_registration.php)

## Contact

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## Scope

The cluster *Virtual Life* of the Leuven Center for BioScience, BioEngineering and BioTechnology (BioSCENter) aims at developing and applying data-analytical and theoretical methods, mathematical modelling and computational simulation techniques to understand, predict and ultimately optimise and control dynamic processes that take place in living systems at multiple spatial scales and levels of organisation. The long term objective is to construct *in silico* models of complete living systems, from micro-organism to plant, animal and human.

The objective of this workshop is to give an overview of some recent developments in mathematical modelling of biological systems.

## Program

13:30 Introduction

*Bart Nicolai*  
K.U.Leuven BIOSYST-MeBioS

13:40 Modeling cellular behavior in the immune system

*Rob De Boer*  
Utrecht University (NL), *Theoretical Biology*

14:20 Modeling cellular rhythms: Circadian clocks and the cell cycle

*Albert Goldbeter*  
ULB, *Unité de Chronobiologie Théorique*

15:00 Coffee

15:20 Individual based models

*Dirk Drasdo*  
INRIA (FR), *Research group multicellular systems*

16:00 Dynamics of organisms

*Eric Bullinger*  
ULG, *Systems and Modeling*

16:40 Closure