

## General Information

### Venue

Friedrich-Schiller-University of Jena  
Auditorium maximum  
Fürstengraben 1  
07743 Jena, Germany

### Date

4-7 October 2016

### Conference Website

[www.isgsb2016.de](http://www.isgsb2016.de)



### Conference Chair

Stefan Schuster  
Friedrich-Schiller-University of Jena  
Department of Bioinformatics  
Ernst-Abbe-Platz 2  
07743 Jena, Germany

### Conference Organisation

Conventus Congressmanagement & Marketing GmbH  
Anja Kreutzmann  
Carl-Pulfrich-Strasse 1  
07745 Jena, Germany  
Tel. +49 3641 31 16-357  
Fax +49 3641 31 16-243  
[anja.kreutzmann@conventus.de](mailto:anja.kreutzmann@conventus.de)  
[www.conventus.de](http://www.conventus.de)

### Industrial Exhibition

The meeting will be accompanied by a specialised industrial exhibition. Interested companies are invited to request information on the exhibition modalities from the conference organisation through Conventus.

### Registration

Further information about registration and fees can be found online at [www.isgsb2016.de](http://www.isgsb2016.de) soon.

## General Information

### ISGSB Organisers

Stefan Schuster  
Department of Bioinformatics • FSU Jena  
Dominik Driesch  
BioControl Jena GmbH  
Oliver Ebenhöh  
Institute for Quantitative and Theoretical Biology  
HHU Düsseldorf  
Marc Thilo Figge  
Applied Systems Biology • HKI Jena  
Pu Li  
Institute for Automation and Systems Engineering  
TU Ilmenau  
Manja Marz  
RNA Bioinformatics and High Throughput Analysis • FSU Jena  
Günter Theißen  
Department of Genetics • FSU Jena  
Johannes Woestemeyer  
Institute of Microbiology • FSU Jena

### YSGSB Organisers

Kailash Adhikari  
Oxford Brookes University  
Mathias Bockwoldt  
University of Tromsø  
Sybille Dühring  
Department of Bioinformatics • FSU Jena  
Sabrina Ellenberger  
Institute of Microbiology • FSU Jena  
Alexander Heberle  
University Medical Centre Groningen  
Sebastian Henkel  
BioControl Jena GmbH  
Franziska Hufsky  
RNA Bioinformatics and High Throughput Analysis • FSU Jena  
James Rowe  
Durham University  
Dipali Singh  
Oxford Brookes University  
Agnieszka Wegrzyn  
University Medical Centre Groningen

# ISGSB 2016 JENA

## INTERNATIONAL STUDY GROUP FOR SYSTEMS BIOLOGY

### CALL FOR ABSTRACTS



© Sergey Nivens - fotlia.com

04-07 OCTOBER  
2016 JENA, GERMANY



© FSU Jena



© FSU Jena

[www.isgsb2016.de](http://www.isgsb2016.de)

## Welcome Note



Dear colleagues,

It is our great pleasure to announce that the next meeting of the International Study Group for Systems Biology (ISGSB, formerly BTK) will be held in Jena from October 4-7, 2016 and, thus, for the first time, in Germany. In addition, there will be special scientific and social activities by the Y(oung)SGSB (early career ISGSB). The biennial ISGSB meetings are devoted to advancing the biological sciences by exploring the interplay between mathematical modelling, computer simulation and wet-lab experiments. ISGSB had dealt with topics of Systems Biology even before that term was coined. Models can be presented and discussed in more detail than usual at other conferences.

ISGSB 2016 will be devoted to the memory of one of the founders of Systems Biology, Reinhart Heinrich (1946-2006). His sudden death was a shock to the community. A decade later, we want to come together to exchange and discuss scientific ideas in his lively spirit. He had always been enthusiastic in doing so and provided us with a plethora of novel ideas.

Jena is a lively city shaped by Science. The university, founded in 1558 (the evolutionary biologist Ernst Haeckel and the discoverer of the living plant cell, Matthias Schleiden, worked here), three Max-Planck institutes, three Leibniz institutes, the Carl Zeiss Jena GmbH and many biotech companies with young and dynamic researchers provide an incredible impetus to the city.

The meeting will cover several topics of Systems Biology in various sessions. Besides invited and contributed talks, poster sessions will be of high importance.

We will be happy to welcome you in Jena in October 2016 and look forward to an exciting meeting!

With best wishes,

Stefan Schuster, Sybille Dühring and Sebastian Henkel

## Major Topics and Call for Abstracts

### Abstract Submission

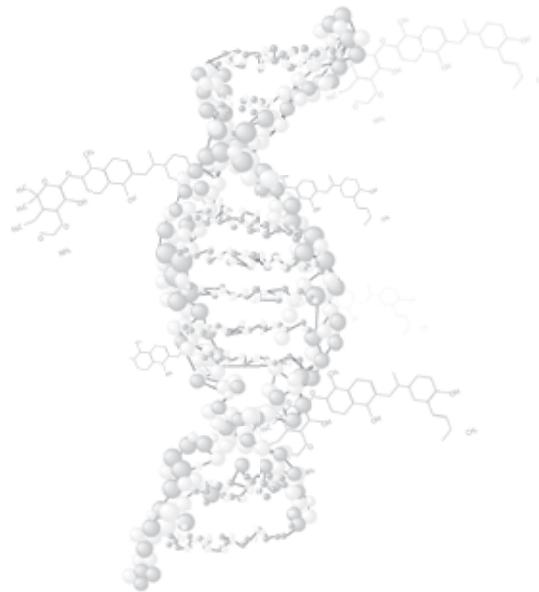
We cordially invite you to submit your abstracts (length: max. 3,000 characters) online at [www.isgsb2016.de](http://www.isgsb2016.de) to the topics below. Abstracts must be submitted in English by **May 31, 2016**.

The programme committee and expert reviewers will evaluate the abstracts according to scientific content and suitability for the conference. A limited number of abstracts will be accepted for oral or poster presentation.

Abstracts are welcome on topics of Systems Biology within the following main themes:

1. Infection modelling
2. Regulatory interactions and signalling
3. Plant physiology and development
4. Biological thermodynamics
5. Optimality principles
6. Multiscale systems medicine
7. Metabolic Pathway Analysis
8. Towards whole-cell models

The Reinhart Heinrich lecture will be given by Tom A. Rapoport (Harvard Medical School).



## Programme Committee

B. M. Bakker, Groningen/NL (Chair)  
L. Acerenza, Montevideo/UY  
E. Albers, Göteborg/SE  
D. A. Beard, Wisconsin, WI/US  
F. Bruggeman, Amsterdam/NL  
M. Cascante, Barcelona/ES  
G. Cedersund, Linköping/SE  
P. Diolez, Bordeaux/FR  
O. Ebenhöf, Düsseldorf/DE  
D. A. Fell, Oxford/GB  
S. Grellscheid, Durham/GB  
M. Heinemann, Groningen/NL  
I. Heiland, Tromsø/NO  
J.-H. S. Hofmeyr, Stellenbosch/ZA  
J. A. L. Jeneson, Groningen/NL  
P. R. Jensen, Lyngby/DK  
U. Kummer, Heidelberg/DE  
J. P. Mazat, Bordeaux/FR  
Y. R. Nartsissov, Moscow/RU  
M. Poolman, Oxford/GB  
J. M. Rohwer, Stellenbosch/ZA  
S. Rossell, Amsterdam/NL  
S. Schuster, Jena/DE  
D. Shanley, Newcastle/GB  
J. L. Snoep, Stellenbosch/ZA  
B. Teusink, Amsterdam/NL  
K. Thedieck, Freiburg/DE  
H. V. Westerhoff, Amsterdam/NL  
A. Zupanic, Zürich/CH