

Networks - Multiscale - Complexity  
Synthetic Biology - Environment  
Bioenergetics - Medicine - Modeling

April  
13-15

2015

# Perspectives in Environmental and Systems Biology



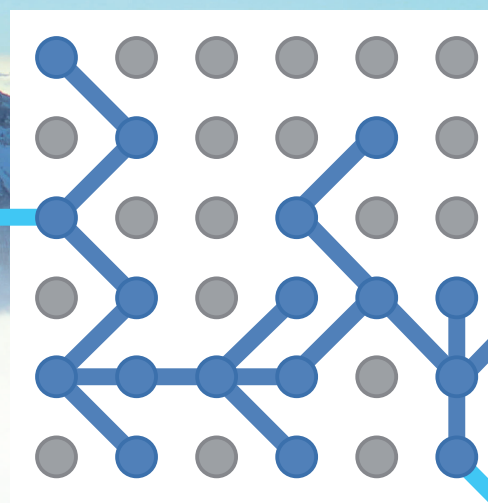
**Grenoble, France**

*Espace Congrès CTP, Campus UJF*

Partnership  
proposal

## Contact & registration:

K'Noë - 15 rue Carnot  
94270 Le Kremlin-Bicêtre  
Ph: +33 (0)1 56 20 28 28  
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[contact@beesy2015.com](mailto:contact@beesy2015.com)  
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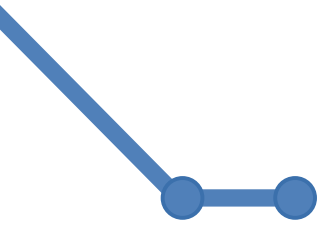


## BEEsy

Biologie Environnementale et Systémique  
Environmental and Systems Biology  
University Grenoble Alpes - UJF

Université  
Joseph Fourier  
GRENOBLE





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## WELCOME MESSAGE

*Perspectives in Environmental and Systems Biology* is an international conference that brings together high profile scientists and younger investigators working in various fields of research in order to exchange their experience with systems approaches. The field of systems biology is emerging as a central research area that represents a paradigm change in how biology should be considered. It responds to the urgent need to put the wealth of individual biological knowledge into the context of an interconnected system, which can be composed of molecular networks, cells, organs, organisms, populations, ecosystems or landscapes. Systems biology also has a strong potential for the development of all biological and medical disciplines and applications in biotechnology, healthcare, and environment.

The conference is organized by the Federal Research Structure « Environmental and Systems Biology » on the campus of the University Joseph Fourier (now University Grenoble Alpes). This is one of the top-ranking French Universities, which holds a long tradition in interdisciplinary research, with major assets in nanotechnology, medical biotechnology, structural biology environmental sciences and mathematics.

On behalf of the scientific committee, I cordially invite you to join this major event in Grenoble, at the heart of the French Alps.

Uwe Schlattner, President



## GENERAL INFORMATION

### Scientific committee

Uwe SCHLATTNER  
Imre BERGER  
Karine COUTURIER  
Hidde DE JONG  
Eric FANCHON

Eric FONTAINE  
Hans GEISELMANN  
Oded MALER  
Christophe MOINARD

Christophe PISON  
Stéphane REYNAUD  
Irène TILL-BOTTRAUD  
Malgorzata TOKARSKA

### Dates

April 13-15, 2015

### Venue

**University Grenoble Alpes**  
**Espace Congrès CTP**  
*Campus Domaine Universitaire*  
*341 rue de la Papeterie*  
*38400 Saint-Martin d'Hères*

Perspectives in  
**Environmental and**  
**Systems Biology**

### Conference attendees

This international scientific event will bring together about 150 scientists from all over the world, including biologists, physicians, health professionals, environmental scientists and specialists in mathematical and computational modeling.

## Monday, April 13

### ■ SESSION - Networks 1: metabolites and lipids

- 07:30 *Registration opening*
- 09:00 **Welcome address**
- 09:20 **How many regulators does it take to respond to an environmental change?**  
Prof. Uwe Sauer (Zürich)
- 09:50 **Oxidative lipidomics of cell death pathways**  
Prof. Valerian Kagan (Pittsburgh)
- 10:20 **Metabolic transformation in fumarate hydratase deficient cancers**  
Dr. Christian Frezza (Cambridge)
- 10:50 **Travel awards**
- 11:00 *Coffee break*

### ■ SESSION - Networks 2: Bioenergetics

- 11:30 **Systems biology of networks: from data to knowledge**  
Prof. Miguel Aon (Baltimore)
- 12:00 **Phosphotransfer networks as communication modality in cellular energetics and metabolic signaling**  
Prof. Petras Dzeja (Rochester)
- 12:30 **Short talk**
- 12:40 *Lunch buffet*
- 14:00 *Posters & coffee*

### ■ SESSION - Computational approaches 1

- 15:30 **Mathematical models of cell cycle regulation**  
Prof. John Tyson (Blacksburgh)
- 16:00 **Cellular dynamics: beyond traditional dynamical systems**  
Prof. Adam Halasz (Morgantown)
- 16:30 *Coffee break*

### ■ SESSION - Computational approaches 2

- 17:00 **Stochastic sampling of phenotypic space: the role of odd behavior in evolution**  
Prof. Harvey Rubin (Philadelphia)
- 17:30 **Eco-evolutionary models of symbiotic interactions**  
Prof. Régis Ferrière (Paris)
- 18:00 **Short talk**
- 20:00 **Welcome dinner**

## Wednesday, April 15

### ■ SESSION - Systems Medicine (EISBM)

- 09:00 **Revolutionizing healthcare and wellness management through systems medicine**  
Dr. Charles Auffray (Lyon)
- 09:15 **Lung transplantation as a use-case for systems medicine: a fruitful journey**  
Prof. Christophe Pison (Grenoble)
- 09:30 **Predictive medicine: outcomes, challenges and opportunities in the Synergy-COPD project**  
Prof. Josep Roca (Barcelone)
- 10:00 **Systems medicine, proactive P4 medicine and a longitudinal, digital-age study of 100,000 well people: catalyzing the transformation of healthcare**  
Prof. Leroy Hood (Seattle)

## Tuesday, April 14

### ■ SESSION - Synthetic Biology

- 09:00 **Into the guts of environmental bacteria: the gene expression flow of *Pseudomonas putida***  
Prof. Victor de Lorenzo (Madrid)
- 09:30 **Controlling protein localization in eukaryotic cells with blue light**  
Dr. Barbara Di Ventura (Heidelberg)
- 10:00 **Genome reduction of *Bacillus subtilis*: from proof-of-concept to cell factories**  
Dr. Anne Gaëlle Planson (Jouy-en-Josas)
- 10:30 **Synthetic biology meets Structural Biology: new perspectives and opportunities in academic and industrial R&D**  
Dr. Imre Berger (EMBL Grenoble)
- 11:00 *Coffee break*

### ■ SESSION - Multi-scale and complexity 1

- 11:30 **The systems biology of the mitochondrion**  
Prof. Robert Balaban (NIH Bethesda)
- 12:00 **Reconstruction of multilevel dynamics in animal morphogenesis based on *in vivo* imaging data**  
Dr. Nadine Peyriéras (Gif-sur-Yvette)
- 12:30 **Short talk**
- 12:40 *Lunch buffet*

### ■ SATELLITE SESSION - Xavier Lerveve memorial lectures

- 14:00 **From ATP to PTP, a dual function for the F-ATP synthase**  
Prof. Paolo Bernardi (Padua)
- 14:30 **Hyperoxia: Dr. Jekyll or Mr. Hyde?**  
Prof. Peter Radermacher (Ulm)
- 15:00 **From systems biology to systems medicine: understanding metabolic reprogramming in multifactorial diseases and exploitation in drug therapy**  
Prof. Marta Cascante (Barcelona)
- 15:30 *Coffee break*
- 16:00 **Energetic metabolism versatility towards physiological adaptations: a quarter-century of collaborative work**  
Prof. Michel Rigoulet (Bordeaux)
- 16:30 **Metformin: mechanism(s) of action of a newly fashioned old drug**  
Dr. Bruno Guigas (Leiden)
- 17:00 **Sodium lactate: the solution of the future**  
Prof. Carole Ichai (Nice)
- 17:30 **Walk to BEeSy building**
- 18:00 **Inauguration of Xavier Lerveve BEeSy research building**

- 10:50 **Short talk**

- 11:00 *Coffee break*

### ■ SESSION - Multi-scale and complexity 2

- 11:30 **Novel multiscale computational modelling and analysis for cancer invasion: exploring the role of matrix-degrading enzymes in tumour progression**  
Dr. Dumitru Trucu (Dundee)
- 12:00 **Short talk**
- 12:10 **Closing address**
- 12:30 *Light meal*

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## Scope

Perspectives in Environmental and Systems Biology will emphasize the inter- and cross-disciplinary character of systems biology, and integrate contributions of various classical disciplines ranging from molecular and cellular biology to medicine and ecology, informatics and applied mathematics. It will discuss topics such as multi-scale approaches, the analysis of networks, computational modeling, systems biology in medicine, and synthetic biology. The conference will thus attract a wide range of scientists, including biologists, physicians, chemists, and computer scientists.

Grenoble Alpes University is strongly promoting systems biology. The conference will celebrate the first five years of the Federal Research Structure Environmental and Systems Biology (BEeSy) and the inauguration of the new Xavier Lerveve BEeSy research building.



A specific session will be dedicated to the late Prof. Xavier Lerveve, physician, former scientific director of INRA and laboratory director, who was a driving force for integrative approaches in bioenergetics and nutrition.

## BECOME A PARTNER

### Why become a partner?

Your investment is immediately justified by the presence of 150 qualified visitors, a decision-making marketplace.

You can demonstrate your expertise, promote your product in an appropriate exhibition area and benefit from the impact of an international science forum.

### How to participate?

#### ▶ 1. Rent an exhibition stand (floor space only), includes:

- Information and coordination services during the periods of assembly and disassembly of the canopies and throughout the exhibition
- 3 exhibitor badges and 1 full access badge
- Your company's logo printed in an inside page of the Conference documentation

Price: € 200/m<sup>2</sup> excluding tax

**Only three size of stands are available: 3 - 6 - 9 m<sup>2</sup>**

#### ▶ 2. Advertising in the conference documentation, logo on conference web site and conference posters

Price: € 850 excluding tax

#### ▶ 3. Providing 150 welcome packs, and/or advertisement inserts or notepads & pens

Price: € 500 excluding tax

#### ▶ 4. Sponsor the 150 Conference badges, includes:

- Your company's logo on the badge
- Your Company's logo printed on the Conference documentation (inside page)
- Booked on a first come-first served basis

Price: € 850 excluding tax

▶ **5.** Sponsor the Welcome dinner (About 100 guests) on April 13th, includes:

- Your Company's logo printed on invitation cards and on menus
- Your Company's logo printed on the Conference documentation (Back cover)
- 2 free entries

Price: to be determined with the scientific committee

▶ **6.** Sponsor the Inauguration of Xavier Leverve BEEsy research building, includes:

- Your Company's logo printed on invitation cards
- Your Company's logo printed on the Conference documentation (Back cover)
- Your Company's logo printed on the welcome display
- 1 free entry

Price: € 1 500 excluding tax

▶ **7.** Sponsor the Travel Awards, includes:

- Specific exposure during the ceremony for travel awardees (April 13th, 10:50)
- Your Company's logo printed on the Conference documentation (Back cover)
- Your Company's logo printed on the welcome display

Price: € 1 500 excluding tax



## IMPORTANT DATES

- Assembly of stands and delivery of hardware:
  - April 13 - 7:30-9:00
- Conference opening and exhibition sessions:
  - April 13,14 - 9:00-18:00
  - April 15 - 9:00-11:30
- Disassembly of stands:
  - April 15 - 11:30-12:30
- Welcome Dinner:
  - April 13 - 20:00

## CONTACT

Official Congress Agency

K'Noë has been appointed to provide the logistic organization of the Exhibition.  
All correspondence should therefore be sent to:

SOCIETE K'Noë  
BEESY 2015  
15 rue Carnot  
94270 Le Kremlin-Bicetre  
FRANCE

Ph: +33 (0)1 56 20 28 28  
Fax: +33 (0)1 56 20 28 29  
contact@beesy2015.com

Coordination:

Ms Kelly Cucheval

Information & Subscription: contact@beesy2015.com  
Exhibition & Sponsoring: sponsorship@beesy2015.com  
Abstracts: abstracts@beesy2015.com

## STAND BOOKING FORM

**Please return to:**

**K'Noë** - BEESY 2015  
15 rue Carnot  
94270 Le Kremlin-Bicêtre - FRANCE  
Fax: +33(0)1 56 20 28 29

COMPANY: .....  
CONTACT: .....  
ADDRESS: .....  
ZIPCODE: ..... CITY: .....  
COUNTRY: .....  
PHONE: ..... FAX: .....  
EMAIL: .....

Wishes to book a stand of:  3 m<sup>2</sup>  6 m<sup>2</sup>  9 m<sup>2</sup>

=> Price: € 200 excluding tax/square meter

TOTAL € Ex Tax = ..... €  
VAT of 20% = ..... €  
Total € Tax included = ..... €

Payment should be settled in accordance with general terms and conditions of sale, on receipt of invoice. The exhibitor declares that he is aware of the general terms and conditions of sale and of the provisions for cancellation and that he agrees to them without restriction. Settlement of payment may be made by check or bank transfer.

- Booking by check to K'NOË
- Booking by bank transfer specifying reference BEESY 2015

Bred Agence Paris Bercy - 31 rue Joseph Kessel - 75012 Paris  
Code banque : 10107 Code Guichet : 00102  
Compte N° 00410021429 - Clé : 65  
Code IBAN: FR76 1010 7001 0200 4100 2142 965 - SWIFT-BIC: BREDFRPPXXX

DATE, NAME AND SIGNATURE:

STAMP:

## SPONSORING COMPONENTS BOOKING FORM

### Please return to:

**K'Noë** - BEESY 2015  
15 rue Carnot  
94270 Le Kremlin-Bicêtre - FRANCE  
Fax: +33(0)1 56 20 28 29

COMPANY: .....

CONTACT: .....

ADDRESS: .....

ZIPCODE: ..... CITY: .....

COUNTRY: .....

PHONE: ..... FAX: .....

EMAIL: .....

### Please, tick the components you wish to book:

- Advertising in the conference documentation, logo on conference web site and conference posters ..... € 850 ex. tax
- Providing 150 welcome packs, and/or advertisement inserts or notepads & pens .. € 500 ex. tax
- Sponsor the 150 Conference badges..... € 850 ex. tax
- Sponsor the Welcome dinner..... To be determined
- Sponsor the Inauguration of "Xavier Leverve" BEEsy research building.....€ 1 500 ex. tax
- Sponsor the Travel Awards..... € 1 500 ex. tax

TOTAL € Ex Tax = ..... €

VAT at 20% = ..... €

Total € Tax included = ..... €

Payment should be settled in accordance with general terms and conditions of sale, on receipt of invoice. The exhibitor declares that he is aware of the general terms and conditions of sale and of the provisions for cancellation and that he agrees to them without restriction. Settlement of payment may be made by check or bank transfer.

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Compte N° 00410021429 - Clé : 65  
Code IBAN: FR76 1010 7001 0200 4100 2142 965 - SWIFT-BIC: BREDFRPPXXX

DATE, NAME AND SIGNATURE:

STAMP:

## GENERAL TERMS & CONDITIONS OF SALE

### Subscription

In order to become a partner or to book an exhibition space, please send back a booking form to the Conference office together with **a deposit of 40% of the above-mentioned total. The balance of the invoice (60%) shall be payable at latest by Fevrier 12, 2015. No bookings can be accepted verbally.** The booking and the settlement of the down payment are a fixed commitment and place the subscriber under obligation to accept the general & particular conditions of the partnership file and of the technical manual for the exhibitor (to be sent at a later date to all companies which have booked an exhibition stand). Furthermore, non-settlement of payment of the balance of the invoice by Fevrier 12, 2015 will entail immediate cancellation, in law, of the right to take up the requested bookings, with no reimbursement of the down payment paid.

### Position and site plan

Stands will be allocated according to the sequence of receipt of bookings. After allocation, no change of position can be implemented without the organizers' written approval.

The exhibition plan as set out in this document is not contractually binding. It is placed subject to approval from the Grenoble city council. We reserve the right to modify both the size and the arrangement of the exhibitor's booked areas hand-in-hand with approvals issued by the city council.

### Cancellation

Any cancellation of a booking for a stand, symposium or other partnership options must be made by registered mail to the Conference office and shall be placed subject to the following cancellation conditions:

Before January 12, 2015: 25% of the total amount owing, including tax, will not be repayable.

From January 13, 2015 to February 12, 2015: 50% of the total amount owing, including tax, will not be repayable.

From February 12, 2015: no reimbursement of sums owing & paid.

### Force majeure

In the event of force majeure, it will be possible for the dates of the Conference and of the Exhibition to be modified or those events may purely & simply be cancelled. In the later eventuality, sums available after payment of incurred expenses shall be distributed between the exhibitors in proportion to their payments without the possibility of any recourse against the organizer or the president.

### Insurance

The undersigned waives all recourse against the organizers and the proprietors of the premises and undertakes to take out the necessary insurance policies to cover the risks arising from materials (theft, damage etc) and civil liability covering the signatory's permanent or temporary personnel attending the Conference. In no case will the exhibitor be covered by the insurance policies of the Conference organization.

### Miscellaneous bookings and rental of advertising space

Advertisers are asked to check that their advertising complies with French legislation regarding advertising of pharmaceutical products and medical hardware. The organizer will not on any grounds whatsoever be able to entertain any complaints lodged after termination of the event.

The organizer reserves the right not to sell a partnership to any firm, company or organization whose activities do not relate directly to the general topic of the event or do not comply with the strict standards imposed by the scientific committee. Applications should be sent to the organization Committee, which will make the final decision regarding all applications.

The exhibitor or sponsor undertakes not to organize any satellite event whatsoever throughout the duration of the 2015 Perspectives in Environmental and Systems Biology Congress without having previously obtained the written approval of the scientific committee. Furthermore the Conference exhibitor or partner may only distribute advertising on its own stand at the Exhibition or in the room that it has booked. Anyone infringing the above rules hereby undertakes to pay compensation to the Conference organizers.

### Exhibitor's technical manual

An Exhibitor Technical Manual will be sent to each exhibitor who has booked & paid for its Exhibition stand. This manual will contain all of the information relating to the general conditions, rules of safety, assembly and disassembly of stands, deliveries, details of the official Conference service-providers and forms for the booking of their services.

### Settlement of invoices

Settlement of payment may be made by check or by bank transfer.

- By check to K'Noë
- By bank transfer specifying reference BEESY 2015

Bred Agence Paris Bercy - 31 rue Joseph Kessel - 75012 Paris  
Code banque : 10107 Code Guichet : 00102  
Compte N° 00410021429 - Clé : 65  
Code IBAN: FR76 1010 7001 0200 4100 2142 965 - SWIFT-BIC: BREDFRPPXXX

*We trust that you will find the ideal way for your company to take part in the Conference and thus benefit the most from this event.*

*Conference partnership represents a long-term relationship of confidence and exchange. If you need any help in planning your venue, please contact us. We shall be glad to answer your questions and work for the success of your participation in this Conference.*



Perspectives in  
**Environmental and  
Systems Biology**

[www.beesy2015.com](http://www.beesy2015.com)

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