

PHARMACEUTICALS IN  
WASTEWATERS AND  
SURFACE WATERS UNDER  
MULTISTRESSORS  
SITUATION:  
Fate, Adverse effects,  
Risks and Removal  
Technologies

2<sup>nd</sup>-3<sup>rd</sup> December 2014  
Barcelona, Spain

Endetech Project Meeting  
1<sup>st</sup> December 2014  
Barcelona, Spain

Cytothreat Project Meeting  
4<sup>th</sup> December 2014  
Barcelona, Spain

**REGISTRATION FORM**

To be returned to Laia Sabater before 3<sup>th</sup> November, 2014  
(Fax: +34 93 204 59 04 or E-mail: laia.sabater@idaea.csic.es)

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

Company/Institution \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

Postal Code \_\_\_\_\_

Country \_\_\_\_\_

Telephone \_\_\_\_\_

E-mail \_\_\_\_\_

I confirm that I will arrange advance payment of:

- 125 € Students
- 200 € members of Globaqua, Cytothreat, Endetech and Scarce
- 300 € External participants
  
- 50 € Endetech Meeting on 1<sup>st</sup> December
- 50 € Cytothreat Meeting on 4<sup>th</sup> December
  
- I will attend to the Conference Dinner (for free)

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Signature:



## OBJECTIVES AND TOPICS

GLOBAQUA aims at identifying the prevalence, interaction and linkages between stressors, and to assess their effects on the status of freshwater ecosystems in order to improve water management practice and policies. The project assembles a multidisciplinary team of 23 scientific institutions, as well as water authorities and river basin managers, and includes experts in geomorphology, biology, chemistry, hydrology, modelling, socio-economics and policy advocacy.

CYTOTHREAT is a research project that deals with the occurrence and fate of anticancer drugs and their transformation products, as well as potential impact of selected anticancer drugs and their mixtures on aquatic organisms and humans, in order to define possible risks and to support introduction of appropriate regulation.

ENDETECH program promotes the development of a novel eco-efficient environmental technology whose use can substantially contribute to the reduction of polluting emissions. The global objective of the program is to contribute to cleaning water

bodies by improving the treatment of wastewater before it reaches the environment. The removal of pharmaceutical pollutants and endocrine disruptors in urban, hospital, and/or industrial effluents will be an important step towards the regeneration of pristine rivers, lakes but also groundwater reservoirs.

SCARCE is a multipurpose project that aims to describe and predict the relevance of global change impacts on water availability, water quality and ecosystem services in Mediterranean river basins of the Iberian Peninsula, as well as their impacts on the human society and economy.

The three EU projects funded under the European Union's Seventh Framework Programm together with SCARCE from the Consolider Programm (Spanish Ministry of Economy and Competitiveness), have joined efforts to prepare a unique conference in which pharmaceuticals will be considered from a multidisciplinary perspective. The Conference is planned in form of oral talks, posters and discussions, where experts from different fields can share their knowledge.

## SCIENTIFIC COMMITTEE

- **Damià Barceló**  
IDAEA-CSIC, Barcelona and ICRA,  
Girona, Spain
- **Metka Filipič**  
National Institute of Biology,  
Ljubljana, Slovenia
- **Pierre-Alain Bandinelli**  
Da Volterra, Paris, France
- **Sara Rodríguez-Mozaz**  
ICRA, Girona, Spain

## CONFERENCE SECRETARIAT

**Laia Sabater Liesa**  
e-mail: [laia.sabater@idaea.csic.es](mailto:laia.sabater@idaea.csic.es)

Dep. of Environmental Chemistry  
IDAEA-CSIC  
Jordi Girona, 18-26  
08034 Barcelona, Spain  
Tel: + (34) 93 400 6100 ext. 5318

## REGISTRATION FEES

**Workshop Fees:**

GLOBAQUA-CYTOTHREAT-ENDETECH-  
SCARCE members: **200 €**

External attendees: **300 €**

Students (justification is required): **125 €**

Fee will cover:

- Attendance to the Conference
- Book of abstracts
- Coffee breaks and lunches
- The Conference Gala dinner

**Meetings Fees:**

CYTOTHREAT meeting: **50 €**

ENDETECH meeting: **50 €**

Fee will cover:

- Attendance to the Meeting
- Coffee breaks and lunch

The registration is opened until **31<sup>st</sup> of October, 2014**.

Payment in Euros (€), should be made in advance by **bank transfer to:**

IBAN: ES62 0049 6793 6322 1600 9040

SWIFT: BSCHEMXX

Bank: Banc Santander

Account holder: ADECIT-Associació per al Desenvolupament de la Ciència i la Tecnologia

With the note: Workshop Barcelona and the name(s) of the participant(s).

## CALL FOR ABSTRACTS

The meeting will include invited speakers and contributed key note lectures and posters. Submission of abstracts is opened to GLOBAQUA - CYTOTHREAT - ENDETECH - SCARCE members and external assistants. A limited number of oral presentations can be accepted.

Abstracts (in English) for oral and poster presentations (1 page) should be submitted to the Secretariat before **30<sup>th</sup> of September, 2014**.

Posters must be no larger than A0 format. If received late, the abstract will be selected for the poster session.

The acceptance of the contributions will be communicated to the authors on the 15<sup>th</sup> of October, 2014 the latest.

## INVITED SPEAKERS

- **Siegfried Knasmüller**  
MUVI, Vienna, Austria  
*The risk assessment of the selected anticancer drugs*
- **Ester Heath**  
JSI, Ljubljana, Slovenia  
*CytoThreat and its contribution to our understanding of the fate of cytostatic pharmaceuticals in the environment*
- **Martin Wagner**  
Goethe University, Frankfurt, Germany  
*Enzymatic degradation of endocrine disrupting compounds: Application to real wastewater*
- **Nick Voulvoulis**  
Imperial College, London, UK  
*The need for removing pharmaceuticals from wastewater from a catchment perspective*

- **Sara Rodriguez**  
ICRA, Girona, Spain  
*Enzymatic treatment of wastewater for the removal of antibiotics. Identification of transformation products of target antibiotics*

- **José Sanchez**  
IEM, Montpellier, France  
*Laccase-grafted ceramic membranes in an enzymatic membrane reactor for the degradation of recalcitrant pharmaceuticals in wastewaters*

- **Sergi Sabater**  
ICRA, Girona, Spain  
*Biofilms facing co-occurrent stressors in river ecosystems: potentialities and constraints*

- **Antoni Ginebreda**  
IDAEA-CSIC, Barcelona, Spain  
*Occurrence of pharmaceuticals in Iberian rivers: modeling and prioritization*

- **Božo Žonja**  
IDAEA-CSIC, Barcelona, Spain  
*Tracing pharmaceuticals and their transformations from hospital effluents to surface waters*

- **Špela Baebler**  
NIB, Ljubljana, Slovenia  
*Can transcriptome changes predict adverse effects of exposure to cytostatics in zebrafish?*

## VENUE

The Globaqua-Cytothreat-Endetech-Scarce Workshop will be held at:

Institut d'Estudis Catalans  
Carrer del Carme, 47  
08001 Barcelona



How to get to the conference venue:

**By airplane:** Barcelona Airport, El Prat, is located just 16 km outside the city. Detailed information can be found at: [www.aena-aeropuertos.es](http://www.aena-aeropuertos.es)

Barcelona airport is connected with the City center (Plaça Catalunya station) by bus (Aerobus: [www.aerobusbcn.com](http://www.aerobusbcn.com)) and train ([www.renfe.com](http://www.renfe.com)).

**By train:** Barcelona has direct connections with different parts of Europe and throughout Spain, as well as a comprehensive regional and suburban rail network. Barcelona Sants Station (Sants Estació) is the city's main railway station and most trains departing from and arriving to Barcelona stop there. The station is also connected with many Spanish and foreign destinations, suburban rail and the High-Speed Train (AVE).

**By Metro:** The closest metro stops are Liceu and secondly Plaça Catalunya. Detailed information can be found at: [www.tmb.cat](http://www.tmb.cat)

Barcelona Tourist Information:  
[www.barcelonaturisme.com/English](http://www.barcelonaturisme.com/English) to Barcelona Airport.

## PROJECT MEETINGS

### ENDETECH Project Meeting

It will take place on Monday, 1<sup>st</sup> of December at the Institut d'Estudis Catalans in room Pi I Sunyer (C/ Carme 47, Barcelona, Spain).

For further information please contact by e-mail Pierre- Alain Bandinelli ([coordinator@endetech.eu](mailto:coordinator@endetech.eu))

### CYTOTHREAT Project Meeting

It will take place on Thursday, 4<sup>th</sup> of December at the Institut d'Estudis Catalans in room Pi i Sunyer (C/ Carme 47, Barcelona, Spain).

For further information please contact by e-mail Metka Filipič ([Metka.Filipic@nib.si](mailto:Metka.Filipic@nib.si))

## SOCIAL PROGRAMM

The conference dinner will take place on Tuesday 2<sup>nd</sup> of December at:



Restaurant La Camarga  
C/ Aribau 117  
08036 Barcelona

Phone: (+34) 933 236 655  
[lacamarga@lacamarga.com](mailto:lacamarga@lacamarga.com)  
<http://www.lacamarga.com>



## ACCOMODATION

Bookings should be made directly to the hotel. Conference organizing committee will not arrange the accommodation for the participants.

Special rates have been arranged with some hotels in the surroundings of the conference venue. Refer to Workshop at reservation and pay directly to any of the following hotels:

### RESIDÈNCIA D'INVESTIGADORS - CSIC

*C/ Hospital 64, Barcelona*  
Web [www.residencia-investigadors.es](http://www.residencia-investigadors.es)  
Phone (+34) 93 443 86 10  
E-mail [investigadors@resa.es](mailto:investigadors@resa.es)

- Single room: 55 €/night
- Double room, single use: 72 €/night
- Double room: 84 €/night

Included: Breakfast and VAT  
Not included: touristic TAX

### HOTEL RAMBLAS\*\*\*

*C/Ramblas 33, Barcelona*  
Web [www.ramblashoteles.com](http://www.ramblashoteles.com)  
Phone (+34) 93 301 57 00  
E-mail [info@ramblashoteles.com](mailto:info@ramblashoteles.com)

- Single room: 55 €/night
- Double room: 65 €/night

Included: Breakfast and VAT  
Not included: touristic TAX

### HOTEL TURÍN\*\*\*

*C/Pintor Fortuny 9, Barcelona*  
Web [www.hotelturin.com](http://www.hotelturin.com)  
Phone (+34) 93 302 48 12  
E-mail [reservas@hotelturin.com](mailto:reservas@hotelturin.com)

- Single room: 75 €/night
- Double room: 95 €/night

Included: Breakfast and VAT  
Not included: touristic TAX

### HOTEL HESPERIA METROPOL\*\*\*

*C/Ample 31, Barcelona*  
Web [www.hesperia.es](http://www.hesperia.es)  
Phone (+34) 93 310 51 00  
E-mail [hotel@hesperia-metropol.com](mailto:hotel@hesperia-metropol.com)

- Single room: 62 €/night
- Double room: 73 €/night

Not Included: Breakfast, VAT and  
touristic TAX

### HOTEL CONDAL\*\*

*C/Boqueria 23, Barcelona*  
Web [www.ramblashoteles.com](http://www.ramblashoteles.com)  
Phone (+34) 93 318 18 82  
E-mail [reservas@hotelcondal.es](mailto:reservas@hotelcondal.es)

- Single room: 50 €/night
- Double room: 58 €/night

Not Included: Breakfast, VAT and  
touristic TAX

More hotels without arrangement from the meeting organisation can be found at:

[www.barcelonaturisme.com/English](http://www.barcelonaturisme.com/English)

## MAPS AND DIRECTIONS

