

## ORGANIZING COMMITTEE

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## FEE

**Registration until June 30<sup>th</sup>:** 810 Euros for participants from academia and 1350 Euros for industry participants.

**Registration after June 30<sup>th</sup>:** 900 Euros for academic participants and 1500 Euros for industry participants.

The fee covers course registration, course materials (book), accommodation in two-bed rooms (shared with another participant), meals, transportation from/to Barcelona airport as well as the social event. **Participants have the possibility to be hosted in single room (limited to availability) at an extra cost of 120 Euros.**

A **limited number of grants**, including the Course fee and travel support are provided by ESACT. Applicants to the grants should indicate it in the Course application, together with a motivation statement. **Only applications received before June 30<sup>th</sup> will be eligible for receiving a grant.**

## REGISTRATION and CONTACT

**Registration deadline is August 15, 2012**

**The number of participants is limited to 30.**

Up-dated information will be available at the ESACT web site ([www.esact.org](http://www.esact.org))

### Contact for registration:

António Roldão  
ESACT office, Chalmers University of Technology, Dept.  
Chemical and Biological Engineering, Kemivägen 10,  
412 96 Göteborg, Sweden  
Tel.: +46 (31) 772 3847  
E-mail: roldao@esact.org

## AIM

This is an introductory course to Animal Cell Technology, providing an overview of the field, from the more basic aspects to the final application. It should be of interest to those starting their research activity in Animal Cell Technology, both from Academia or Companies. It is also of interest for those wishing an up-date of the state-of-the-art of Animal Cell Technology in a short Course.

## COURSE OUTLINE

After the interest received by the 1<sup>st</sup> edition and the excellent feed-back from the attendants, the 2<sup>nd</sup> edition of the ACT course will be organised by the ESACT - European Society of Animal Cell Technology (an international leading platform for Animal Cell Technology) in Llafranc, Costa Brava/Spain, from 30<sup>th</sup> September to 4<sup>th</sup> October 2012. ESACT is presenting this activity as one more contribution to the scientific community involved in the use of animal cells in Biotechnology and Biomedicine.

The Course is planned in an intensive four day schedule, with a number of participants limited to a maximum of 30, in order to facilitate the interaction among them and with the lecturers. Lecturers will stay for most of the Course duration. The Course comprises lectures covering the main topics of Animal Cell Technology:

1. Cell line development
2. Cellular mechanisms
3. Post-translational modifications
4. Bioreactor design
5. Downstream processing
6. Genomics and proteomics
7. Bioreactor scale-up and scale-down. Single use bioreactors
8. Process Analytical Technology
9. Economical aspects of ACT bioprocesses
10. Integrated bioprocess for protein production
11. Integrated bioprocess for stem cells

There will also be slots in the program dedicated to the preparation and presentation of case studies by the participants.

## LECTURERS

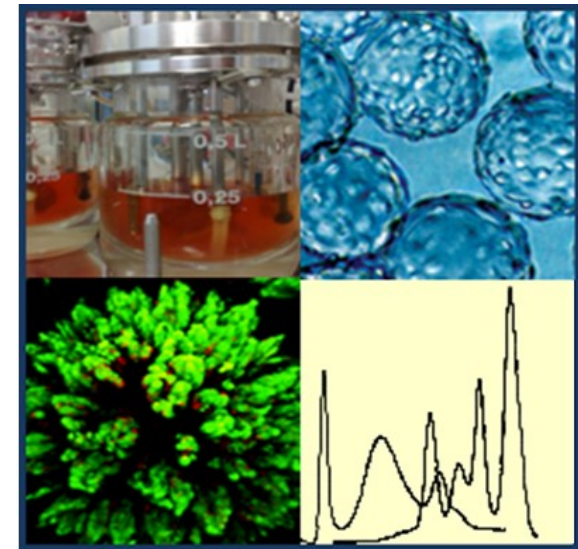
Confirmed lecturers include Terry Papoutsakis (University Delaware, USA), Manuel Carrondo (IBET, Portugal), Hansjörg Hauser (HZI, Germany) and Ashraf Amanullah (Gilead, USA). Other information can be found soon in [www.esact.org](http://www.esact.org).



# ANIMAL CELL TECHNOLOGY COURSE

September 30 - October 4, 2012

Llafranc, Costa Brava / Spain



Photos: [www.ibet.pt](http://www.ibet.pt)

With the contribution of:



## PROGRAM

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	
8.30 - 9.45	Arrival to Barcelona /Girona airports and transfer to Hotel Terramar in Llafranc  Check-in in Hotel  Welcome and dinner	<b>Overview Lecture</b> M. Carrondo	<b>Post-translational modifications (I)</b> E. Papoutsakis	<b>Genomics and Proteomics</b> H. Hauser	<b>Integrated bioprocess for stem cells</b> P. Alves	
Coffee break						
10.15 - 11.30		<b>Cell line development (I)</b> H. Hauser	<b>Post-translational modifications (II)</b> E. Papoutsakis	<b>Bioreactor scale-up and scale-down. Single use bioreactors</b> A. Amanullah	<b>Study cases presentation (I)</b>	
11.45 - 13.00		<b>Cell line development (II)</b> H. Hauser	<b>Bioreactor Design (I)</b> F. Gòdia	<b>Process Analytical Technology</b> A. Amanullah		
Lunch and Free time						
15.00 - 16.15		<b>Cellular mechanisms (I)</b> E. Papoutsakis	<b>Bioreactor Design (II)</b> F. Gòdia	<b>Economical aspects of ACT bioprocesses</b> TBD	Course adjournment, hotel check-out and departure to Barcelona/Girona airports	
Coffee break						
16.45 - 18.00		<b>Cellular mechanisms (II)</b> E. Papoutsakis	<b>Downstream processing</b> M. Carrondo	<b>Integrated bioprocess for protein production</b> TBD		
18.15 - 19.30		<b>Students introduction/ Study cases presentation</b> P. Alves, F. Gòdia	<b>Social/Leisure activity</b>	<b>Study case preparation/work in groups</b>		
Free time						
21.00	Dinner					

## LlAFRANC



## ACT course 2011



## LOCATION AND TRAVEL INFORMATION

The course will be held in Hotel Terramar, a three star hotel ([www.hterramar.com](http://www.hterramar.com)) in a small town named Llafranc in the heart of Costa Brava, Girona, Spain. The hotel is right on a very nice sandy beach, providing a cozy and relaxing atmosphere for the attendees. The course is scheduled for early October, when the climate should be very pleasant, not too hot.

Travel organization to the meeting site is of participants responsibility. Access by road from Girona airport (30 min) or Barcelona airport (90 min) is suggested. Coach pick-up on Sunday afternoon from both airports will be organized for groups with feasible arrival times (check website for updates). Additional nights in the hotel must be directly booked by the participants.

