AIM

ESACT (European Society for Animal Cell Technology) offers an introductory intensive course in cell culture produced viral vaccines to meet the needs of the rapidly expanding research and development in Academia and Industry in the field. This course introduces the basic principles of vaccination and manufacturing of viral vaccines. Also, the course will provide an overview of the advanced strategies to respond to the challenges of new and established viral infection diseases. The course has been designed to benefit those starting their research activity in this field, both from Academia, Industry or Public Health Agencies. It is also of interest for those wishing to up-date their knowledge and know-how in cell production of viral vaccines.

COURSE OUTLINE

1. Principles of immunology and virology
2. Cell lines for vaccine production
3. Upstream process development and intensification
4. Analytical and potency assays
5. Downstream processing of viral vaccines
6. Vaccine formulation and delivery systems
7. QbD and PAT in vaccine development
8. Regulatory issues
9. Vaccine markets and immunization policies
10. Several case studies for vaccine development and manufacturing, presented by international experts

Insights from WHO and Bill and Melinda Gates Foundation.

LECTURERS

Confirmed lecturers include Amine Kamen (McGill, Canada), Isabelle Knott (GSK, Belgium), Leo van der Pol (IntraVac, The Netherlands), Jorge Flores (Center for Vaccine Innovation and Access (CVIA), USA) Yvonne Genzel (MP, Germany), Francesc Gòdia (UAB, Spain), Cristina Peixoto (iBET, Portugal), Emma Petiot (CPE-Lyon Engineer School, France), Patricia Leung-Tack (Sanofi-Pasteur, France), Erin Sparrow (WHO, Switzerland) and Ray Prasad (Bill and Melinda Gates Foundation, USA). Other information can be found in www.esact.org.

FEE and APPLICATION

1000 Euros for academic participants and 1600 Euros for industry participants.

The fee covers course registration and materials (ebook), accommodation in two-bed rooms (shared with another participant), meals, transportation from/to Barcelona airport (see the time schedule for the bus below). Participants have the possibility to be hosted in single room (limited to availability) at an extra cost of 125 Euros to be paid directly in the hotel.

A limited number of grants, covering the course fee (not travel cost), are provided by ESACT. Applicants to the grants should indicate in the course application, together with a motivation statement. Priority will be given to young PhD students from Academia.

All applications should be sent before 15th of June. Accepted applicants will be notified by July 11th and should register and complete payment by August 15th.

ORGANIZING COMMITTEE

Amine Kamen
Department of Bioengineering
McGill University, 817 Sherbrooke St. W.
Macdonald Engineering Building, Room 387
Montreal, Canada
Tel.: +1(514)398 5775
E-mail: amine.kamen@mcgill.ca

Yvonne Genzel
Bioprocess Engineering Group, Team Upstream Processing
Max Planck Institute for Dynamics of Complex Technical Systems
Sandtorstr. 1, 39106 Magdeburg, Germany
Tel +49 391 6110 257
Email: genzel@mpi-magdeburg.mpg.de

Francesc Gòdia
Departament d’Enginyeria Química, Biológica i Ambiental,
Escola d’Enginyeria, Edifici Q, Universitat Autònoma de Barcelona, Bellaterra, Barcelona 08193, Spain
Tel.: +34 93 581 4790
E-mail: francesc.godia@uab.cat

FEE and APPLICATION

1000 Euros for academic participants and 1600 Euros for industry participants.

The fee covers course registration and materials (ebook), accommodation in two-bed rooms (shared with another participant), meals, transportation from/to Barcelona airport (see the time schedule for the bus below). Participants have the possibility to be hosted in single room (limited to availability) at an extra cost of 125 Euros to be paid directly in the hotel.

A limited number of grants, covering the course fee (not travel cost), are provided by ESACT. Applicants to the grants should indicate in the course application, together with a motivation statement. Priority will be given to young PhD students from Academia.

All applications should be sent before 15th of June. Accepted applicants will be notified by July 11th and should register and complete payment by August 15th.
**LOCATION AND TRAVEL INFORMATION**

The course will be held in Hotel Terramar, a 3-star hotel (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 cosy and relaxing atmosphere for the participants. Weather in Llafranc at this time of the year is generally pleasant. Travel arrangements are of participants responsibility, ensuring participation to the full course. Access by road to Girona airport (30 min) or Barcelona airport (90 min) is suggested. IMPORTANT NOTE: ONE BUS will be leaving from Barcelona airport at 18h on Sunday 18th September to drive participants to Hotel Terramar at Llafranc. On Thursday 3rd of October, ONE BUS will be leaving from Hotel Terramar at 15h to drive participants to Barcelona airport. Participants should arrange their travelling accordingly or alternatively arrange transportation on their own.

---

**REGISTRATION and CONTACT**

Registration deadline is August 15, 2019. The number of participants is limited to 30. Selection will be made based on CV of applicants and motivation letter.

Updated information will be available at ESACT website (www.esact.org).

Contact for registration:

Birgit Marckhgott
E-mail: office@esact.org