

ORGANIZING COMMITTEE

Paula Marques Alves

Animal Cell Technology Unit
IBET/ITQB-UNL

Apartado 12, 2780-901 Oeiras, Portugal
E-mail: marques@ibet.pt

Joaquim Vives

Servei de Teràpia Cellular
Banc de Sang i Teixits
Edifici Doctor Frederic Duran i Jordà
Passeig Taulat, 116, 08005 Barcelona
E-mail: jvives@bst.cat

Eric J Kremer

IGMM CNRS, Institut de Génétique Moléculaire de Montpellier
1919 rt de Mende, Montpellier, 34293, France
E-mail: eric.kremer@igmm.cnrs.fr

FEE and APPLICATION

EUR 1000 for academic participants and

EUR 1600 for industry participants.

The fee covers course registration and e-course book.

A **limited number of grants**, covering the course fee (not travel cost), are provided by ESACT and ACTIP. Applicants to the grants should indicate it 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 10th of July. Accepted applicants will be notified by July 20th and should register and complete payment by August 15th, 2022 at the latest.

CONTACT

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

mailto:office@esact.org

AIM

With the 1st Bioprocessing and Manufacturing of Gene and Cell Therapy Products Course, ESACT is introducing this activity as one more contribution to the community targeting the use of viral vectors, stem cells and immune cells for therapy.

COURSE OUTLINE

This inaugural course is intended for Ph.D. students, post-docs, junior scientists, engineers, and clinicians searching to improve their understanding of the development and manufacturing of gene and cell therapy products. The speakers will address key bioprocessing aspects, analytical toolsets to assess the quantity and quality attributes, and regulatory challenges for the manufacturing of ATMPs, providing also a solid fundamental basis on vectorology and stem cell biology.

The course comprises lectures covering the main topics of Gene & Cell Therapy:

- Introduction to Gene Therapy & to Cell Therapy
- Immunology, Virology & Vectorology
- Cell Line Development for Viruses Production
- Stem Cell Biology
- Gene Modification of Cells for Therapy
- Bioreactor scale-up, scale down and single use Bioreactor for Cells based Products & Viral Vectors
- Downstream processing for Cells based Products & Viral Vectors
- Omics in Bioprocess Development
- Manufacturing Cells based Products & Viral Vectors
- Novel Modalities in Gene & Cell Therapy
- Scale-up and the Role of Automation in Gene & Cell Therapy
- Process & Product Analytics
- Health Technology Assessment/Economics
- Decision Tools

The program has also slots dedicated to presentation of case studies by lecturers, workshops, exercises, and discussion groups with the lecturers.

LECTURERS

Confirmed Lecturers: Eric Kremer (CNRS, France), Joaquim Vives (BST, Spain), Paula Alves (iBET, Portugal), Ana Coroadinha (ITQB NOVA, Portugal), Chantal Martin (Turnstone, Canada), Eoin McGrath (ICCBBA, Spain), Francesca Rossetti, (AGC Biologics, Italy), Ioannis Papantouniou (KU Leuven; Belgium); Kerry Fisher (Univ. Oxford, UK); Margarida Serra (FCT NOVA, Portugal); Mercedes Segura (ElevateBio, USA), Cristina Peixoto (iBET, Portugal)



BIOPROCESSING & MANUFACTURING GENE AND CELL THERAPY PRODUCTS

SECOND EDITION

September 25th - 29th, 2022

Llafranc, Spain



Photos: www.ibet.pt

With the contribution of:



ACTIP

PROGRAM

	Sunday, Sept 25, 2022	Monday Sept 26, 2022	Tuesday Sept 27, 2022	Wednesday Sept 28, 2022	Thursday Sept 29, 2022
9:00 - 10:00	Arrival To Barcelona International Airport Transfer to Llafranc Hotel Terramar (only one bus will be arranged – leaving Barcelona Int airport) Check in at Hotel	Introduction to the Course Participants Presentations (EK/JV/PA)	Cell line development for Viruses Production (ASC)	QbD for Early Bioprocess Development of ATMPs (IP)	Principles of Downstream (CP)
10:00 - 11:00		Introduction to Gene Therapy (ASC)	Stem cell biology and therapeutic opportunities (JV)	Analytical methods for Cell and Gene Therapy products <i>(part I)</i> (FR)	Regulatory Aspects Relevant for Cell and Gene Therapies (EM)
		30 min break, coffee/tea			
11:30 - 12:30		Turning a virus into gene transfer vector (EK)	Stem cell biology and therapeutic opportunities (JV)	Analytical methods for Cell and Gene Therapy products <i>(part II)</i> (FR)	Health Technology assessment/economics (EM)
12:30 - 15:00		Lunch & Free Time			
15:00 - 16:00		Vector immunogenicity - the why and how (EK)	Successful tech transfer of autologous manufacturing (CM)	Bioprocess Eng for Exosomes/EV (GS)	Wrap up Session and course Closing (PA/EK/JV)
16:00 - 17:00		Upstream: Introduction to Production Technologies and Bioreactors (Paula Alves)	Omics in Bioprocess Development (GuidaS)	Cell manufacturing for Tissue Engineering approaches (IP)	
		30 min break			
17:30 - 19:00		The Road for Making Gene and Cell Therapy Products (KF)	Lentiviral Vector Manufacturing Platforms for Cell and Gene Therapies – Case study exercise (MS)	Cell-based Therapy Control Strategy (MS)	
19:00 - 20:00		Free Time			
20:00	Welcome and Dinner	Dinner			

APPLICATION

Deadline for online application is July 10th, 2022. The number of participants is limited. Selection will be made based on CV of applicants and motivation letter

Online registration at
www.esact.org/courses

Updated information available on www.esact.org

Thanks to our sponsor of grants: **ACTIP**

CONTACT

more details, information, and registration at
www.esact.org

ESACT Office
email: office@esact.org