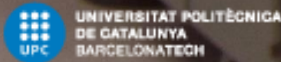


# IBEC



Institute for Bioengineering of Catalonia

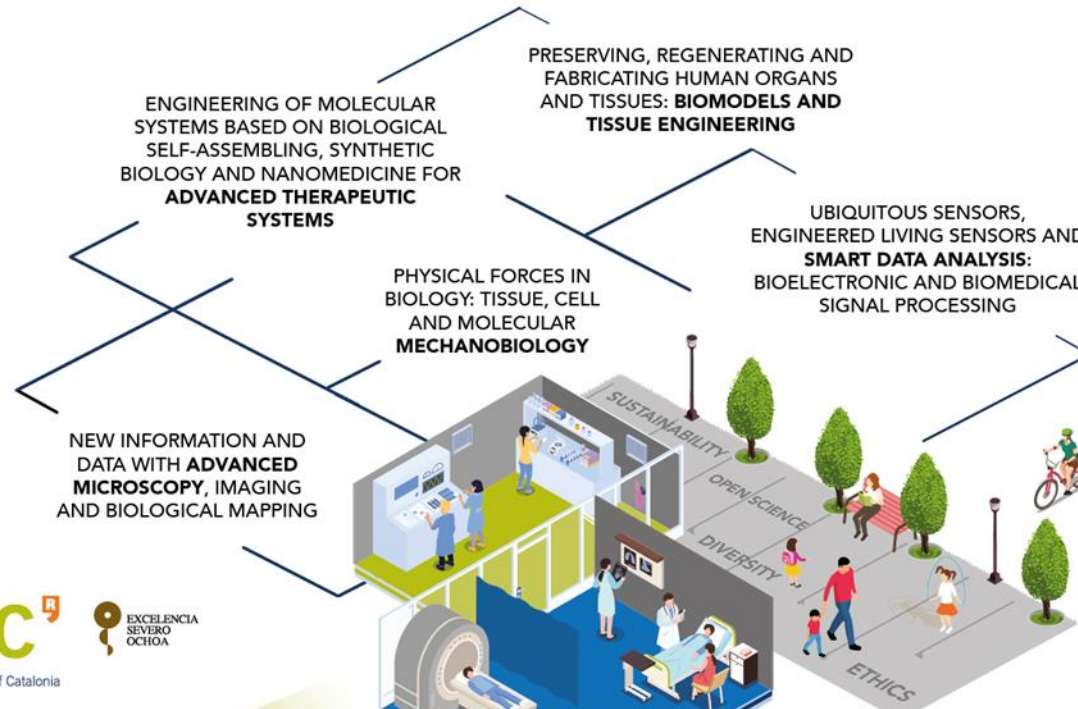


# IBEC: OUR MISSION

- Created in 2005 by Catalan Government Catalunya, Polytechnical University Barcelona and University of Barcelona.
- IBEC performs interdisciplinary research combining: biophysics, cell engineering, nanomedicine, biomaterials, tissue engineering, ICT, ...



**FOCUS**



**FOCUS**

ENGINEERING OF MOLECULAR SYSTEMS BASED ON BIOLOGICAL SELF-ASSEMBLING, SYNTHETIC BIOLOGY AND NANOMEDICINE FOR **ADVANCED THERAPEUTIC SYSTEMS**

PRESERVING, REGENERATING AND FABRICATING HUMAN ORGANS AND TISSUES: **BIOMODELS AND TISSUE ENGINEERING**

PHYSICAL FORCES IN BIOLOGY: TISSUE, CELL AND MOLECULAR **MECHANOBIOLOGY**

UBIQUITOUS SENSORS, ENGINEERED LIVING SENSORS AND **SMART DATA ANALYSIS: BIOELECTRONIC AND BIOMEDICAL SIGNAL PROCESSING**

NEW INFORMATION AND DATA WITH **ADVANCED MICROSCOPY, IMAGING AND BIOLOGICAL MAPPING**



**BIOENGINEERING FOR EMERGENT AND ADVANCED THERAPIES**

**BIOENGINEERING FOR GLOBAL ONE HEALTH AND PANDEMICS**

**BIOENGINEERING FOR PRECISION MEDICINE**

**APPLICATIONS**

# IBEC: AN INTERNATIONAL PLAYER

LA VANGUARDIA

Sociedad

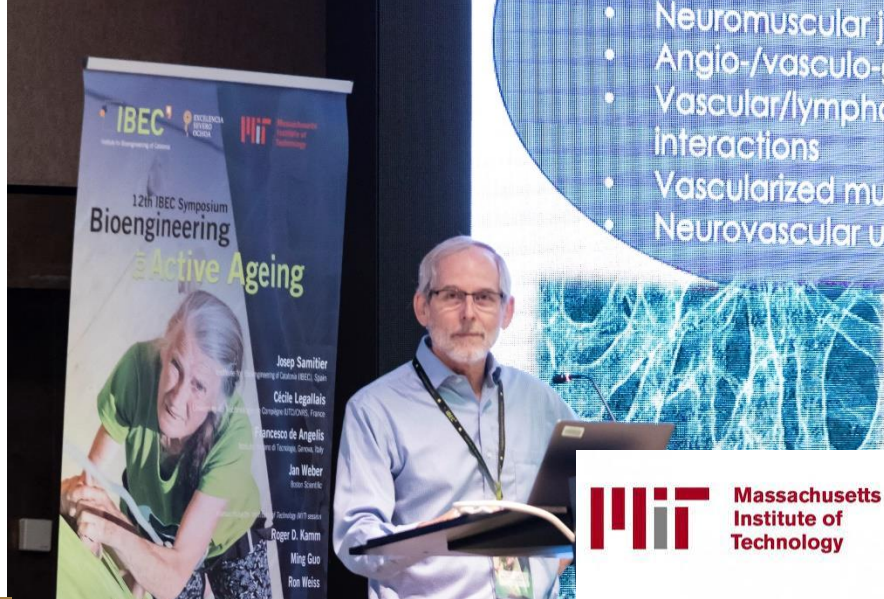
AL MINUTO / INTERNACIONAL / POLÍTICA / OPINIÓN / SOCIEDAD / DEPORTES / ECONOMÍA / LOCAL / GENTE / CULTURA / SUCESOS **SUSCRÍBETE**

## Barcelona acogerá el primer Instituto Fraunhofer en España, el mayor centro de investigación aplicada



**IBEC**<sup>R</sup>  
Institute for Bioengineering of Catalonia

**Fraunhofer**  
IBMT



12th IBEC Symposium  
Bioengineering & Active Ageing

- Neuromuscular junction
- Angio-/vasculo-g
- Vascular/lymphatic interactions
- Vascularized muscle
- Neurovascular uncoupling

**MIT** Massachusetts Institute of Technology



**EMBL**



Eindhoven

Barcelona

**TU/e** EINDHOVEN UNIVERSITY OF TECHNOLOGY

# ENGAGED WITH SOCIETY & SUSTAINABILITY



**Crazy x  
Bioengineering**



**Low-income schools**



**Open educational  
resources**



**Science in rural areas**

## GREENING THE LAB

### CELEBRATING IBEC'S SUSTAINABLE PRACTICES

On 6th of June we will celebrate that we are the first research center in Spain to certify its laboratories as sustainable by My Green Labs



**my green lab  
certification.**



#### Change in Mindset

- Build a culture of sustainability in labs
- Rethink how things have always been done
- Healthier materials for colleagues



#### Collaboration

- Provide model for other labs throughout the organization
- Work with other functions
- Inspire customers



#### Resource Savings

- Save energy and water
- Reduce waste
- Reduce greenhouse gas emissions



#### Innovation

- Explore new processes, technologies, methods, and ideas

[www.ibebarcelona.eu](http://www.ibebarcelona.eu)

WWW.IBECBARCELONA.EU

Engineering solutions for health



UNIVERSITAT POLITÈCNICA  
DE CATALUNYA  
BARCELONATECH



UNIVERSITAT  
de BARCELONA



Generalitat  
de Catalunya



Unió Europea  
Fons Europeu  
de Desenvolupament Regional  
"Una manera de Ferer Catalunya"



Ministerio de Sanidad, Consumo y Bienestar Social  
Instituto de Salud Carlos III