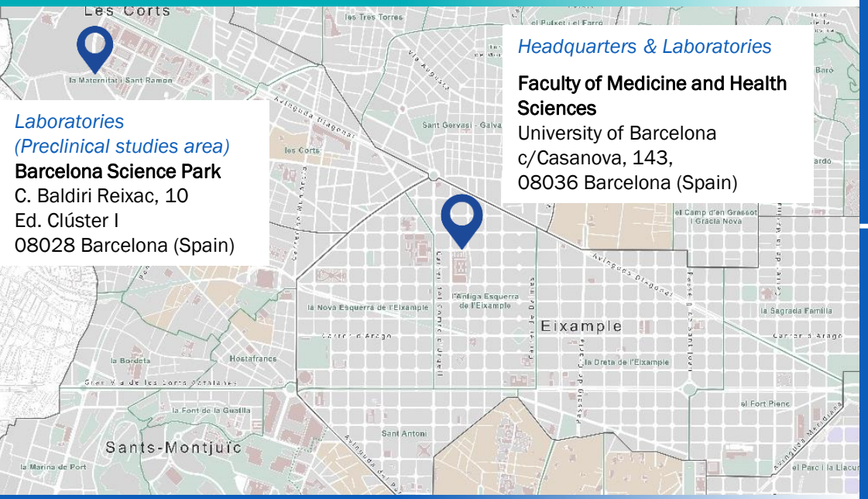
Located in Barcelona,

A European hub for biomedical research and innovation



Laboratories
(Preclinical studies area)
Barcelona Science Park
C. Baldiri Reixac, 10
Ed. Clúster I
08028 Barcelona (Spain)

Headquarters & Laboratories
Faculty of Medicine and Health Sciences
University of Barcelona
c/Casanova, 143,
08036 Barcelona (Spain)

20+ yrs

R&D of advanced therapies for neurodevelopment and neurological diseases.

20+ yrs

Validating new technologies and healthcare products.

10 yrs

Producing ATMPs for clinical use.

100+

Peer-reviewed **publications**

50+

Publicly-funded **R&D projects**

17+

PhD thesis dissertations

300 m²

Cleanroom facility to produce **gene, cell** and **tissue engineering** ATMPs

900+

Patients treated with gene and/or cell therapy medicinal products

1st

GMP grade **laser-assisted 3D-bioprinter** in Europe

Creatio: production and validation center of advanced therapies of the Universitat de Barcelona
+34 689 954 544 | info.creatio@ub.edu
www.ub.edu/creatio

Creatio | Production and validation center of advanced therapies UNIVERSITAT DE BARCELONA

We ensure all projects are compliant with applicable UNE-EN-ISO 9001:2015, GLP and/or GMP guidelines, and the Creatio Quality System.

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Creatio supports you throughout the healthcare product development process.

Working towards a healthy future and society's QoL

BASIC RESEARCH | PRECLINICAL STUDIES | CELL, GENE AND TISSUE ENGINEERING ATMP PRODUCTION

We are committed to providing comprehensive solutions through Advanced Therapies, aiming to improve quality of life in society as a whole and to enhance healthcare system efficiency.

Creatio is the leading academic **Production and Validation center of Advanced Therapies** of the Universitat de Barcelona which provides tailored support throughout the healthcare product development process, from **basic research, to preclinical research and clinical production.**

The **integrated solutions** provided by Creatio **boost the R&D of cutting-edge therapies and accelerate their application in clinical practice.**




CORE SERVICES AND SOLUTIONS

- Basic and translation research of advanced therapies.
- Development of new alternative methodologies (NAMs)
- Preclinical toxicology studies
- Clinical production of gene, cell and tissue engineering ATMPs
- Laser-assisted GMP-grade 3D bioprinting
- Tailored consultancy for ATMP GMP translation and production
- Training and education

ACCREDITATIONS

- ISO 9001:2015
- Good laboratory practices (GLP)
- Good manufacturing practices (GMP)
- TECNIO, technological development center

ATMPs
Gene
Cell
Tissue
Engineering



BASIC RESEARCH | PRECLINICAL RESEARCH | CLINICAL RESEARCH | REGULATORY APPROVAL | POST-MARKETING

Phase I | Phase II | Phase III

Research and translation of advanced therapies with a focus on neurodevelopment and neurological diseases.

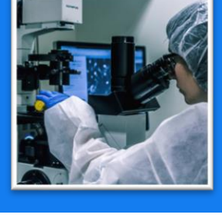
We support you with:

1. *In vitro* human models:
   - *Human* stem cell differentiation
   - *2D* human stem cell models
   - *Microfluidic or brain-on-chip model*
   - *3D model:* 3D bioprinting
   - Development of NAMs
2. In vivo approaches:
   - Chimeric human-mouse models
   - *Drug* administration/transplants
   - *In utero* electroporation
   - Animal behavior
3. Genomic techniques:
   - *Direct reprogramming*
   - *Cloning & gene expression*
   - *Omics and machine learning*

Validation of new technologies and healthcare products under development.

We support you with:

1. Portfolio of studies:
   - *Pharmacological studies*
   - *Pharmacokinetic studies*
   - *Efficacy studies*
   - *Toxicity studies*
   - *Clinical pathology*
2. Regulatory affairs and compliance:
   - *Expert reports*
   - *Preclinical roadmaps*
   - *Assessment of regulatory requirements*
   - *Tailored support towards regulatory approval*



GMP facility for the development, validation and production of cell, gene and tissue engineering ATMPs for clinical use.

We support you with:

1. GMP production of ATMPs
   - *Set-up & scale-up*
   - *Product master documentation*
   - *Validation*
   - *GMP-ATMP production*
   - *Monitoring & control*
2. Regulatory affairs and compliance:
   - *GMP translation*
   - *Clinical roadmap and assessment of regulatory requirements*
   - *Documentation for regulatory authorities*
   - *Tailored support towards regulatory approval*

We help you bring your ATMPs into clinical practice both safely and cost-effectively"