

Open position for: **Creatio, Production and Validation Center of Advanced Therapies**

TITLE: Postdoc position as Bioinformatician

Ref: CRE20-04

ACCOUNTABLE TO: Dr. Josep M Canals

CONTRACT: Bioinformatician position at the University of Barcelona/Fundació Bosch i Gimpera

Job Summary

The bioinformatician position is potentially available in the Research Area of the Production and Validation Center of Advanced Therapies (CREATIO) of the University of Barcelona. The selected candidate will be incorporated to CREATIO in September 2021, upon confirmation of grant approval to CREATIO.

Requirements

Applicants are required to hold a degree in bioinformatics, computer science, computational biology or similar and a PhD in a related field.

- Experience processing and analyzing omics data (most preferably RNA-seq and scRNA-seq)
- Experience with machine learning and programming will be highly appreciated
- Experience in research in the neurology field will be highly appreciated
- Organized, methodical, proactive and motivated.
- Proficiency in English

Expression of interest

People interested in this position should send a CV and presentation letter to: Cristina Salado Manzano, e-mail: csaladomanzano@ub.edu and Dr. Josep M Canals, e-mail: jmcanals@ub.edu

The position will remain open until November 1st 2020

ABOUT CREATIO

Creatio is the Production and Validation Center of Advance Therapies at the Faculty of Medicine of the University of Barcelona. Our mission is to deliver solutions based on advanced therapies with the goal of increasing the efficiency of the sanitary system and the quality of life of society. Creatio is a center of excellence that is technologically specialized in advanced therapies. Creatio has an experienced multidisciplinary team with great experience in Advance Therapies that work under high quality standards. We establish strategic alliances with companies, research centers and hospitals to develop new projects and/or products in this innovative medical field.

SERVICES

1. Production of Advanced Therapies for Clinical Use

Creatio produces medicines for advanced therapies (ATMPs) for clinical investigation under a high standard of quality according to Good Manufacturing Practice (GMP) requirements (both EMA/FDA).

Creatio supports all aspects of production and testing of clinical material under current GMP guidelines. We ensure that all projects are **compliant with applicable GMP guidelines and/or UNE-EN-ISO 9001**, and the Creatio Quality System.

The Creatio Quality System **provides comprehensive documentation of policies and procedures** that cover all aspects of facility operation, manufacturing, and quality control testing.

The resulting manufacturing batch records and associated documents provide **full traceability and records** that are critical in demonstrating GMP compliance and **supporting Investigation New Drug (IND) and Investigation Device Exemption (IDE) applications**.

2. Process and Documents Development

Creatio develops protocols and all necessary documents for production under GMP conditions: Standard operating procedures, *specification of sources, intermediary and final product*, production guidelines and validation protocols amongst others.

- **Legal documentation development** - Development of protocols for the production of ATMPs for clinical application, including gene therapy, cell culture and cryoprotection of stem cells, and tissue engineering with natural or artificial scaffolds.
- **Process Development** - Full support for clinical process development. We have expertise in clinical trials involving cell culture and cryoprotection, cellular vaccines, lentiviral production for *ex vivo* gene therapy, and *in vitro* manufactured tissues.
- **Quality Control** - Comprehensive product testing and analytical methods development/qualification/validation to support process development and cGMP release testing.
- **Quality Assurance** - Review of GMP batch records and release, full quality system support, and vendor audit support.

3. Scientific & Technical Advice and Training

Expert advice in the development of new activities and processes in the fields of advanced therapies, preclinical and clinical tests, compliance with the standards of GMP and UNE-EN-ISO 9001, as well as its implementation and monitoring.

Creatio specialists will train your technical team involved in the production process under compliance of GMP rules wherever necessary.

4. Other Biotechnological Services

Creatio can facilitate and accelerate your preclinical research. We have a team of experts to develop in vitro and in vivo models using a broad range of rodent and human cell lines and animal models.

The Creatio research team has various cell culture platforms available to test your **new drugs and to validate research hypotheses**. We have experience in testing efficacy of drugs based on animal models and human cells for neurodegenerative disorders:

- Processing of tissue and isolation of primary human cells.
- Culturing and differentiation of pluripotent and somatic human stem cells.
- High throughput screening for immunohistochemistry and gene expression.
- Brain-on-chip systems.
- Gene therapy *in vivo* and *ex vivo*.
- Pharmacological and genetic mouse models of neurodegenerative diseases.
- Cell transplants; chimeric human/mouse models.
- Motor and cognitive behavior platforms.
- Neuroimaging for animal models.

All our activities and processes are performed according to high quality standards under compliance of ISO 9001:2015 rules.