

Job offer

Xenopat, a company offering advanced preclinical services based on the use of orthoxenografts®, has opened a new position:

PhD Student Candidate

BRIEF DESCRIPTION OF THE PROJECT

Enhancing Preclinical Studies for Testing New Oncology Drugs: Establishment of Cell Lines from Patient-Derived Xenografts (PDX).

Patient-Derived Xenografts (PDX) are valuable tools in preclinical oncology research, faithfully replicating human tumour characteristics in mouse models. Xenopat's extensive PDX bank is renowned for its quality and diversity. However, selecting the most suitable PDX for drug testing presents challenges. To tackle this issue, this PhD project proposes an innovative approach: to create a new *in vitro* platform prior to mouse models to reduce animal use and enhance research efficiency. Objectives include establishing cell lines from Xenopat's PDX bank and validating their similarity to the original PDXs. This strategy aims to accelerate drug development, improve personalised medicine, and contribute to more responsible and effective biomedical research, aligning with regulatory modernisation efforts and ethical considerations.

(Please see the full description at: <https://doctoratsindustrials.gencat.cat/doctorats/millora-dels-estudis-preclinics-per-provar-nous-farmacs-oncologics-establiment-de-linies-cellulars-a-partir-de-xenoempelts-derivats-del-pacient-pdx/>)

POSITION RESPONSABILITIES

- Executing pre-clinical *in vivo* drug studies: drug administration, tumor measurement, mice weighting, cell line injections, necropsies, and tissue collection.
- *In vitro* cell culture work to establish cell lines from PDXs.
- Calculation and preparation of drugs for *in vivo* dosing.
- Engaged in good lab practices (data collection, analysis, presentation, storage).

KNOWLEDGE, SKILLS, AND ELIGIBILITY

- Degree in fields related to health sciences such as: biology, biotechnology, pharmacy, biochemistry, veterinary, medicine, etc.
- Master's degree in a relevant area for the project.
- The candidate should provide proof that they have received an average grade of 6.5 or above (out of 10), calculated on the total number of credits from university courses that give access to doctoral studies.

- Accreditation to work with mice (FELASA preferred).
- Cell culture experience.
- Specific experience in mouse models of cancer, drug administration and animal surgery will be favorably considered.
- Highly organised, motivated, team-oriented individual, capable to stick to agreed protocols with a strong sense of integrity and confidentiality.
- Written and verbal communication skills in English are needed.
- Responsibility for own work.
- Enthusiasm, willing to learn and ambition for professional growth.

WHAT XENOPAT and 'DOCTORAT INDUSTRIAL' OFFER

- Immediate start after resolution.
- Three-year contract.
- Mentoring by members of the company and the academic field, who will provide guidance and assess your progress on an ongoing basis.
- Supplementary training in subjects highly demanded by companies.

Before **May 10th**, applicants should complete the form using this link: <https://doctoratsindustrials.gencat.cat/doctorats/millora-dels-estudis-preclinics-per-provar-nous-farmacs-oncologics-establiment-de-linies-cellulars-a-partir-de-xenoempelts-derivats-del-pacient-pdx/> and send it to: doctorats.industrials.recerca@gencat.cat.