

The Laboratory of Biology of Tumor and Development lead by Pr Agnès Noël and Didier Cataldo has an opening PhD-position currently available in the field of Reproductive Medicine

Project summary

Improved survival rates between childhood, adolescents, and young adult cancer survivors has raised the question of long-term ovarian function and fertility. A new discipline has emerging, known as “oncofertility”. High-dose alkylating agents are known to induce premature ovarian insufficiency and impair fertility in female patients, but the impact of the low/intermediate-dose is less established. Fertility preservation is highly recommended for post-pubertal high-risk patients, but still debated in prepubertal subjects and for patients who have been exposed to lower doses of alkylating agents.

The subsequent effect of ovarian tissue cryopreservation on later ovarian function remains to be fully described. In this project, by using a murine model, we will determinate:

- 1) the impact of low/intermediate dose chemotherapy on premature ovarian failure and fertility in female;
- 2) the impact of ovarian tissue cryopreservation on ovarian function and fertility in low/intermediate dose chemotherapy-treated female.

Techniques

The project relies on a panel of *in vivo* and *in vitro* assays. It combines cellular, biochemical and molecular biology techniques (Cell culture, Western Blotting, RT-qPCR, immunohistochemistry, flow cytometry, a mouse model of xenotransplantation of ovarian tissue...).

Profile

The candidate will be graduated in biomedical sciences, biology or biochemistry. He/she will be motivated and should be able to work independently and to efficiently collaborate within a team. A good level of English is expected.

Application

Please send your cover letter, your CV and the name of 2 referees to Dr. Carine Munaut (c.munaut@uliege.be) before august 15th, 2022