Master Student (f/m/d) - Stem cell models of tumor predisposition

Location
Vienna
Working Hours:
Full-time employee
Area:
Florian Halbritter Group
Salary:
€ 551,10.-

Are you interested in deciphering the developmental origins of childhood cancers?
Do you already have experience with stem cells and cell culture and want to put your skills to test in a real research project? Then this position is ideal for you!

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he Halbritter Group is recruiting a master student (f/m/d) interested in applying stem cell and organoid models for pediatric cancer research. Join our multi-disciplinary team and use patient-derived induced pluripotent stem cells (iPSCs) to tackle some of the unresolved mysteries at the interface of cancer, developmental, and genome biology.

Our team aims to understand the earliest cellular and molecular changes that occur in childhood cancers. By achieving a mechanistic understanding of the underlying biology, we hope to inspire new diagnostics and treatments. Our work ranges from the analysis of tumor specimens (https://doi.org/10.1158/2159-8290.CD-19-0138), through in vitro modelling of tumorigenesis (https://doi.org/10.1038/s41467-024-47945-7), to the development and evaluation of bioinformatics methods (https://doi.org/10.1101/2023.03.28.534443). Your contribution to our team's efforts will be primarily on the experimental side, but you may participate in the generation and interpretation of genomics data.

Your responsibilities

- **Stem cell culture and organoid differentiation:** You will expand and characterize multiple patient-derived (iPSC) lines. You will then learn and apply protocols for organoid differentiation using these cell lines.
- **Experimental design and scientific method:** You will read the literature, take a deep dive into the relevant biology, and then design experiments using our disease models to reveal molecular changes in cells during early tumorigenesis.

- **Molecular and imaging analysis:** To collect data and characterize differentiation products, you will apply molecular biology (e.g., qPCR) and imaging techniques (e.g., confocal microscopy).
- **Record keeping and dissemination:** You will be responsible for collecting, analyzing, and summarizing data in a structured and accurate manner. You will present your findings at lab meetings, institutional seminars, and scientific conferences.
- **Teamwork:** You will work in a highly collaborative team of computational and experimental biologists.

Your profile

What you bring for this position:

- Enrolled in a Master's degree in a relevant subject (e.g. molecular or stem cell biology)
- Excellent technical skills (e.g. qPCR, cell culture, sterile working; experience with pluripotent stem cells is highly desirable)
- Experience (e.g. internships) in a relevant area is a plus
- Excellent verbal and written communication skills in English (German not required)
- Self-motivated, enthusiastic and eager to learn, good team player, exceptional commitment, and creativity
- Scientific mindset and problem-solving attitude

Our offer


A master thesis position for 12 months


An exciting project in a meaningful, inspiring, and international setting


An outstanding working atmosphere in a strong team with excellent opportunities


Access to state-of-the-art infrastructure


Flexible working hours, excellent public transport connections and other great benefits


Great location in the center of Vienna, a capital of biomedical research in Europe with excellent quality of life

A monthly allowance of € 551,10.

Who we are

One of Europe's leading institutions in the field of pediatric oncology, St. Anna Children's Cancer Research Institute (St. Anna CCRI) investigates the biological foundations of cancer in children and adolescents. For almost 40 years, our multidisciplinary teams have been committed to developing innovative diagnostic approaches and personalized treatments aimed at further improving young patients' chances of cure. In

close collaboration with both national and international partners we combine scientific excellence with clinical relevance. We stand for responsible research, transparency and sustainable knowledge building. As an employer, we offer a state-of-the-art research environment, opportunities for professional development as well as a workplace culture that embraces diversity and appreciation. Work where it really matters and contribute to science that makes a difference.

More information here: https://ccri.at/

Your application

We are looking forward to your application!
Please include the following documents:
- Personal cover letter (detailing your motivation to apply and your future career aspirations)
- Curriculum Vitae (highlighting relevant previous experience)
- Contact details of 2 references

Applications will be reviewed on a rolling basis until the position is filled.

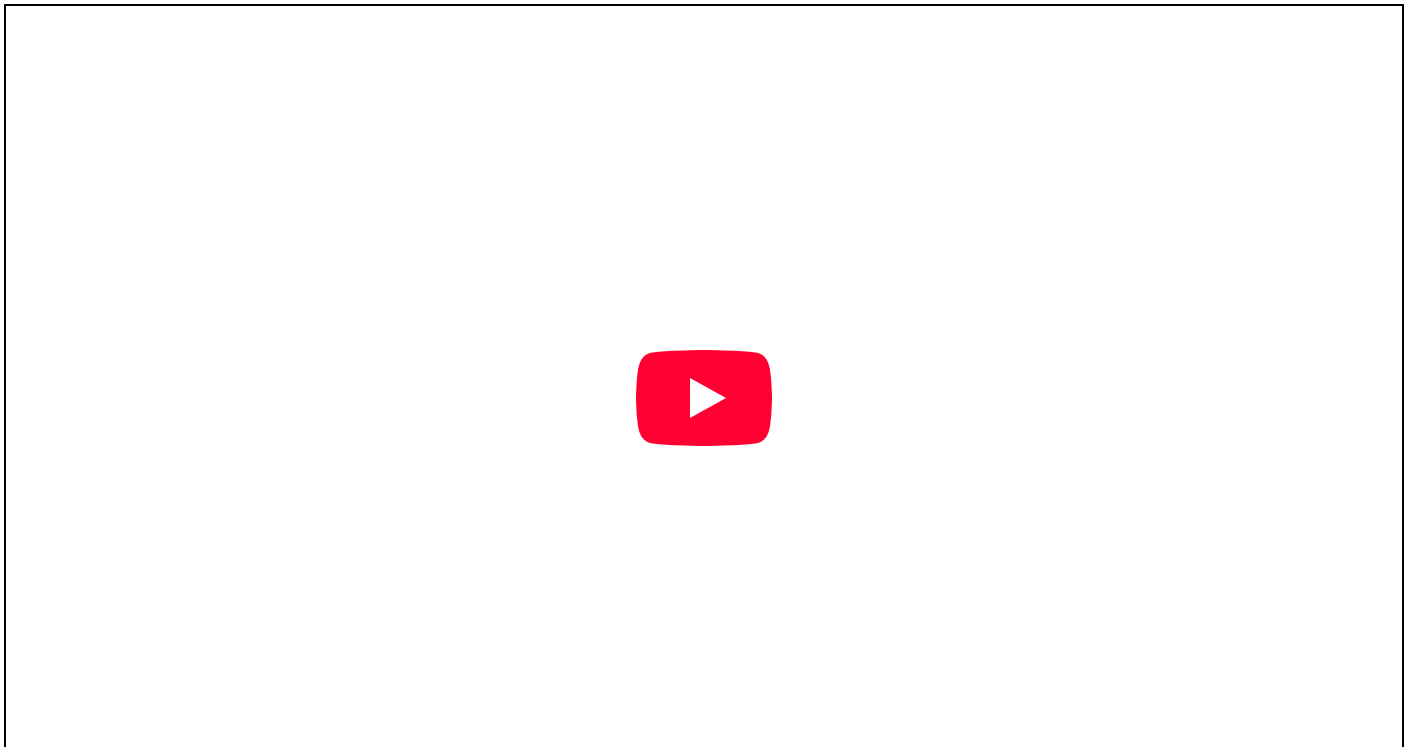
Apply now

Your recruiting process

A clear and appreciative application process is important to us – find out more here about the next steps.

Contact information

Christina Schendl
christina.schendl@ccri.at
+4366488809096



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