Departement Biomedizin Basel

Laboratory of Cancer Immunology

Universitätsspital Basel

Oncology

MASTER THESIS PROJECT:

Join Our Research Team for an Exciting Master's Thesis Project!

Are you a motivated and passionate master's student looking for an exceptional thesis opportunity? We invite you to be a part of our dynamic research team and contribute to groundbreaking research in the field of cancer immunotherapy.

Thesis Title:
Unveiling Metabolism-Associated Gene Contributions to Cancer-Associated T-Cell Exhaustion through Targeted Gene Editing

Research Group:
Zippelius Lab / Cancer Immunology, Department of Biomedicine

About Us:
Cancer immunotherapy is a groundbreaking approach that exploits the immune system to fight cancer. However, resistance to treatments like immune checkpoint blockade remains a challenge. Our research group is dedicated to understanding resistance mechanisms using animal models and human samples, translating findings into clinical trials. we investigate strategies to overcome immune cell exhaustion within tumors and have identified potential in combining therapies. As a member of our team, you'll have access to state-of- the-art facilities, expert guidance, and a collaborative environment that fosters innovation and growth.

Thesis Project Overview:
In this master's thesis project, you will actively engage in ex vivo and in vivo experimentation. This opportunity will enable you to delve into the intricacies of cancer-related T-cell exhaustion. By targeting specific genes, you'll contribute to unraveling the underlying molecular mechanisms and their impact on T-cell function. This project's primary objective is to shed light on the role of metabolism-associated genes in driving T-cell exhaustion in the context of cancer. This research holds great promise in enhancing our understanding of immune dysfunction in tumors and may offer novel avenues for therapeutic interventions.

Requirements:

- Enthusiastic and dedicated master's student in immunology and molecular biology
- Strong interest in metabolism and metabolites
- Excellent problem-solving and analytical skills
- Ability to work independently and as part of a team

What You'll Gain:

- Practical experience in designing and conducting research experiments
- Opportunity to contribute to scientific knowledge and advancements
- Mentorship from experienced researchers in the field
- Networking opportunities and collaboration with fellow students

Application Process:
To apply for this exciting master's thesis opportunity, please submit the following documents to Maryam Akrami [maryam.akramisomeabozorg@unibas.ch]

- Updated CV
- Statement of interest highlighting your motivation and relevant skills