

## MASTER THESIS PROJECT: IN CANCER EPIGENETICS

### Exploring the interplay of genetic and epigenetics in aging and cancer susceptibility

#### Project overview

In the genome plasticity Lab, we are interested in understanding how environment and lifestyle factors modulate epigenetic changes. Our aim is to understand the regulatory role of epigenetic pathways in order to manipulate these pathways in aging-associated diseases such as cancer. In this project we will explore the interplay of epigenetics and metabolism in a cell model system.

#### We offer

- A friendly and professional environment with close mentorship.
- We offer you an environment where you can network, be inspired and develop your own ideas.
- You will gain experience in cell culture, microscopy, and cutting-edge techniques and more.

#### Your profile

- We are looking for a motivated Master's student with excellent communication skills and interest in cancer epigenetics.
- The ideal candidate should want to learn to work independently. How to apply  
Please send an email with your CV to [faiza.noreen@unibas.ch](mailto:faiza.noreen@unibas.ch)

#### References

Noreen, F. et al., DNA methylation instability by BRAF-mediated TET silencing and lifestyle-exposure divides colon cancer pathways. *Clinical Epigenetics* (2019), 11, 196.

Noreen, F. et al., Age- and cancer-associated DNA methylation change in the healthy colon by aspirin and lifestyles. *JNCI* (2014), 106(7): 169-178.