

We are looking for a master student in our tumor genetics research laboratory covering our research project:

DNA methylation profiles in cutaneous melanoma and benign melanocytic lesions

DNA methylation seems to play an important role both in oncogenesis and progression of melanoma. In a preliminary study we could identify an epigenetic subset of melanomas with a distinct DNA methylation pattern, characteristic cytogenomic abnormalities and triple wildtype mutation status in the three important melanoma driver genes *BRAF*, *NRAS* and *NF1*.

Our current project focusses on the investigation of the differences in DNA methylation patterns between nevi and melanomas in general and the differences between the two epigenetic subtypes of melanoma in detail.

The project is a cooperation between the Tumor Genetics Laboratory at the Institute of Human Genetics and the Skin Cancer Center of the University Clinics of Dermatology, Venerology and Allergology.

Your tasks within the project will be:

- Careful macrodissection and DNA isolation of melanoma and nevi samples.
- Processing and evaluation of DNA methylation array analyses.
- To perform NGS analyses using a comprehensive cancer gene panel.
- Integrative evaluation of the genetic, epigenetic, histological and clinical data.

You should bring the following attributes:

- Have general lab experience and be familiar with basic molecular biology techniques.
- Be able to accurately perform (sometimes) manually challenging methods such as macrodissection of delicate specimen.
- Willing to fit into an existing laboratory organization.

If you are interested, please feel free to contact us:

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