



IGMP Institut für
Gewebemedizin
und Pathologie



H O R A O



INSTITUT
POLYTECHNIQUE
DE PARIS

INSELSPITAL
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HÔPITAL UNIVERSITAIRE DE BERNE

Master Theses in the HORAO Project

The HORAO research group develops imaging Mueller polarimeters for visualizing healthy human brain tissue and human brain tumors. The final goal is the integration into a neurosurgical microscope to be used on humans.

We currently offer Master projects on the following topics:

- Polarimetric instrumentation for biomedical diagnostics of brain tissue
- Design of a new polarimetric instrument for visualization of brain tissue
- Multimodal Registration of histological and polarimetric images of brain tissue
- Polarimetric Mosaicing for imaging of macroscopic brain sections
- AI-based Polarimetric multimodal delineation of brain neoplastic tissue
- Advanced visualization of multidimensional polarimetric images of the brain

Scan me!



For more information, please contact David Hasler (david.hasler@insel.ch).