

Job posting Bachelor Thesis:

We are looking for a Bachelor student (biology, biotechnology, biochemistry, biophysics or related discipline) who is interested in writing the Bachelor thesis on the topic:

“Reaction of 3D cell culture to photon or proton irradiation”

Project:

Radiotherapy is an important treatment modality for cancer patients. As alternative to conventional photon irradiation particle irradiation, e.g. with protons, can be prescribed. The different beam qualities and physical attributes translate to different biological effects. This project aims at investigating these differences on cellular level with a 3D cell culture model.

Methods:

1) 3D cell culture: organotypic brain slice culture

- Cultivation
- Cell survival assay

2) Histological techniques

- General processing (embedding, cutting, overview stainings)
- Immunofluorescence
- Microscopy

3) Data evaluation (ImageJ, GraphPad, Excel)

Start: as soon as possible

Further information: www.oncoray.de

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