Current Research

Around one milliard cells die daily in our body. This programmed cell death, apoptosis, is part of the natural tissue renewal and a way to prevent the development of cancer. It can however have undesired consequences: Following stroke or injury to the spinal cord non-injured cells near the site of injury are at risk of undergoing apoptosis – leading to neurological deficits like para-/hemiplegia.

We study the cellular and molecular mechanism orchestrating apoptosis in the CNS, during development and disease, including brain tumors, stroke and spinal cord injury.

Future Projects and Goals

In our lab we aim at influencing apoptosis-inducing factors to:

- Fight brain tumors by targeting tumor stem cells
- Treat stroke and spinal cord injury
- Recruit endogenous neural stem cells to repair the brain.

Selected Publications


