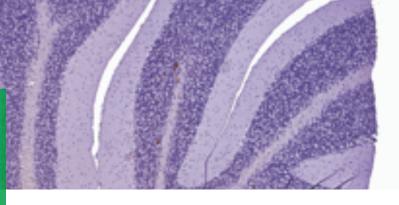
Neurodegenerative Diseases



Stereology based ... of course!

With a strong academic background in neuroscience and neurostereology we have conducted several preclinical studies of neurodegenerative diseases in state-of-the art preclinical rodent models of e.g. Parkinson and Alzheimer Disease.

It is all about sampling

Stereology is considered the gold standard for estimation of histological changes and assessing therapeutic effects in neurodegeneration models. With total numbers – not ratios – the method is unbiased by tissue processing artefacts!

Hippocampal CA1 neuron loss

Using optical and physical fractionator designs, we have investigated hippocampal neuron loss in senescence-accelerated mouse prone 8 (SAMP8) mice, a model of age-related sporadic AD, and in a mouse model (rTg4510) carrying the human tau (hTau).

Alzheimer Disease models

At Gubra, we have investigated regional plaque and tau load following long-term liraglutide (GLP-1) treatment in double APP/PS1 transgenic and Tau301L mouse models of Alzheimer's disease. Read papers <u>here</u> and <u>here</u>.

Parkinson Disease model

In animal models of Parkinson Disease (PD), estimation of dopaminergic neurons numbers and projections is imperative for model phenotyping and assessment of drug treatment effects. We are experienced with both 6-OHDA and MPTP models. See also our <u>imaging platform</u>.

