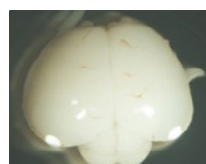
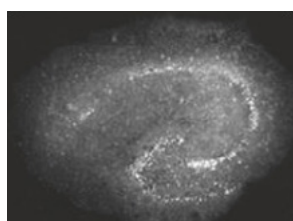




Organotypic brain slices

Organotypic brain slice cultures are an innovative and robust in vitro method to study several cell types of the brain in a complex network. Slices can be cultured as single slices isolated from different brain regions or as whole brain slices under physiological conditions.

- Induction of disease related phenotypes e.g. with LPS or 6-OHDA
- Evaluation of cytokine release, cell viability, toxicity, mitochondrial activity
- Assessment of mRNA expression and protein levels



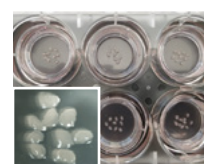
Prepare post-natal brain



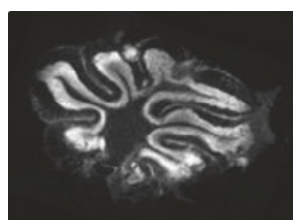
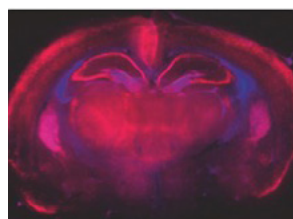
Dissecting region of interest



Slicing of tissue

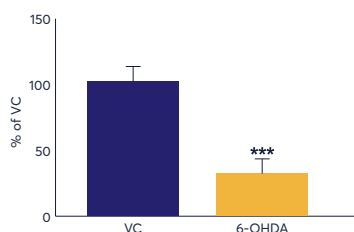


Cultivation and treatment



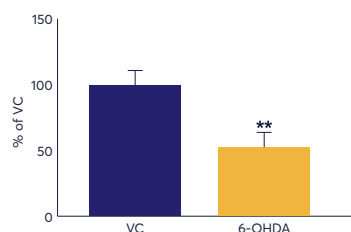
Cell viability

Figure 1:



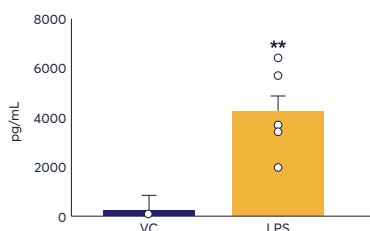
Mitochondrial activity

Figure 1:



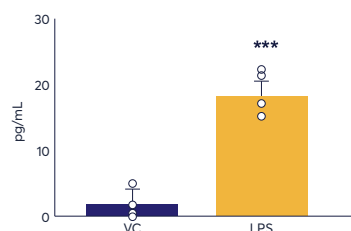
TNF-α

Figure 1:



IL-1β

Figure 1:



Organotypic brain slices are your method of choice to investigate processes *ex vivo* with an intact 3D structure and cell-cell interactions and to screen different drugs and their effects in an in vivo like system.

