



# 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.

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.

- 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

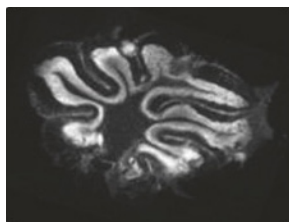
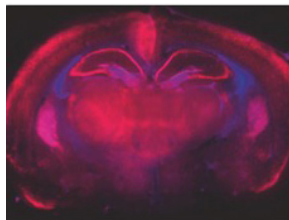
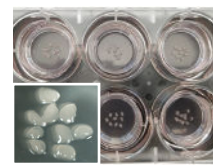
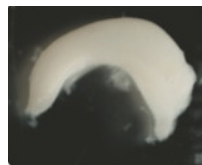
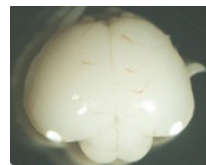
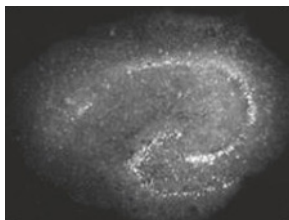
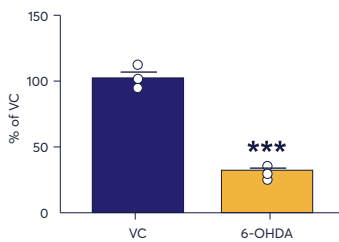
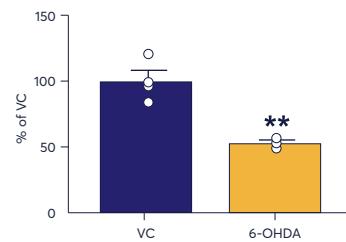


Figure 1

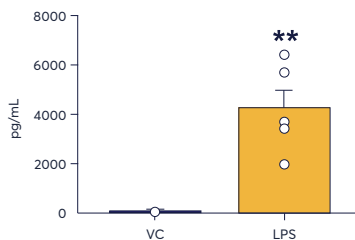
### Cell viability



### Mitochondrial activity



### TNF-α



### IL-1β

