

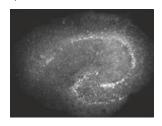
**Methods and Services** 

# **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
- · Evalution of cytokine release, cell viability, toxicity, mitochondrial activity
- · Assessment of mRNA expression and protein levels



Organtoypic 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







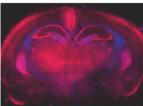


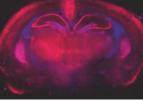
Prepare post-natal brain

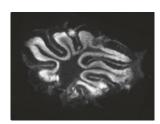
Dissecting region of interest

Slicing

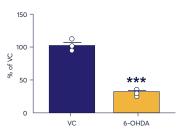
Cultivation and treatment



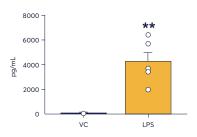




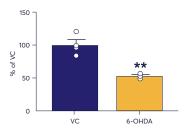
# Figure 1 **Cell viability**



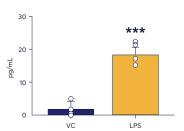
TNF-α



Mitochondrial activity



IL-1ß



# Scantox

Discovery

Representative data are shown throughout this document. However, biological variability might cause deviations from shown data.

# Scantox Group, HQ

Hestehavevej 36A, Ejby DK - 4623 Lille Skensved clientservice@scantox.com www.scantox.com +45 5686 1500

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