

# cOFM

# for continuous sampling of cerebrospinal fluid (CSF)

## CONTACT

JOANNEUM RESEARCH Forschungsgesellschaft mbH

#### HEALTH

Institute for Biomedicine and Health Sciences

#### Thomas Birngruber, PhD

Neue Stiftingtalstrasse 2 8010 Graz, Austria

Phone +43 316 876-4000 Fax +43 316 8769-4000

thomas.birngruber@joanneum.at

health@joanneum.at www.joanneum.at/health



cOFM (cerebral open flow microperfusion) is an in-vivo sampling system for **continuous sampling** of interstitial fluid in brain tissue and cerebrospinal fluid (CSF). For CSF sampling, the cOFM probe is implanted in the cisterna magna at least one day before sampling to prevent contamination of the CSF sample with blood. Undiluted and unfiltered CSF samples are continuously withdrawn at a rate of 25 µl/h and physiologically replenished.

#### **Our services**

- Study design
- Animal ethics application
- Preclinical studies in rats and pigs
- Comprehensive bioanalysis
- Statistical analysis
- Reporting

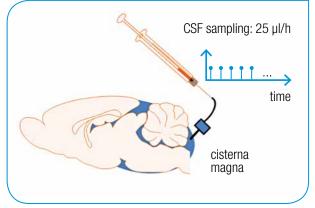
#### THE INNOVATION COMPANY



### Your benefits

#### cOFM for CSF sampling allows:

- repeated sampling of 25 µl/h CSF in rats with unlimited experimental duration
- collection of undiluted and unfiltered samples for a complete substance profile in the CSF
- sampling which is not limited by molecular size (up to cells), lipophilicity or protein binding
- sampling in anesthetized as well as free moving animals



Working principle of CSF sampling

### Quality standards

We set high quality standards for our services and products. As our partner, you can rely on the application of international quality standards right from placing your orders up to delivery of the final product/service. We operate and are certified according to the following guidelines:

- EN ISO 9001 : 2008
- EN ISO 13485:2012
- GLP Good Laboratory Practice

# Our partnerships for your benefit

We can offer excellent clinical and preclinical research services for your additional benefit based on our synergistic partnership with the Medical University of Graz. Relevant clinics and departments at the Medical University of Graz contribute state-ofthe-art laboratories, equipment and experienced medical and technical staff to the cooperation.

- cOFM probes can also be used as interfaces to administer substances into the ventricular space.
- cOFM probes are implanted 1 day before sampling to minimize sample contamination with blood.