To access an extended list of publications and presentations from the research group at Joannneum Research-Health, who pioneered the OFM technology, please click here

Selected Publications on cOFM

1. Abbvie Poster: Sampling extracellular Tau in human Tau transgenic mice: optimization of push/pull in vivo microdialysis. Barini et al., *Monitoring Molecules in Neuroscience 2018, Oxford.* (click for reprint)
2. Abbvie Poster: Brain bioavailability of large molecules in rodents. Le Prieult et al., *Monitoring Molecules in Neuroscience 2018, Oxford.* (click for reprint)
3. Cerebral open flow microperfusion (cOFM) an innovative interface to brain tissue. Birngruber and Sinner, *Drug Discov Today Technol. 2016 Jun;20:19-25*. (click for reprint)
4. Microdialysis of Large Molecules. Jadhav et al., *J Pharm Sci. 2016 Nov;105(11):3233-3242*. (click for reprint)
5. Determination of (2)H-enrichment of rat brain interstitial fluid and rat plasma by headspace-gas-chromatography - quadrupole-mass-spectrometry. Eberl et al., *Anal Biochem. 2016 Sep 15;509:130-134*. (click for reprint)
6. AAPS 2016 Poster: Monitoring leptin concentration in the hypothalamus with intact blood-brain barrier using cerebral open-flow microperfusion (cOFM). Birngruber et al., *AAPS Annual Meeting and Exposition, Denver, 2016*. (click for reprint)
7. AAPS 2015 Poster: Cerebral Open Flow Microperfusion (cOFM): Long Term In Vivo Monitoring of Transport across the Intact BBB. Birngruber et al., *AAPS Annual Meeting and Exposition, Orlando, 2015*. (click for reprint)
8. Lundbeck Poster: Impact of local inflammation and blood-brain-barrier (BBB) impairment: comparison of in vivo microdialysis and open flow microperfusion (cOFM) methods for the detection of cytokine. Dekun Song et al., *Society for Neuroscience Meeting 2015, Chicago*. (click for reprint)

9. Enhanced doxorubicin delivery to the brain administered through glutathione PEGylated liposomal doxorubicin (2B3-101) as compared with generic Caelyx,(®) / Doxil (®) -- cerebral open flow microperfusion pilot study. Birngruber et al., *J Pharm Sci*. 2014 Jul;103(7):1945-1948. (click for reprint)

10. Assessment of blood-brain barrier function and the neuroinflammatory response in the rat brain by using cerebral open flow microperfusion (cOFM). Ghosh et al., *PLoS One. 2014 May 22;9(5).* (click for reprint)

11. Long-term implanted cOFM probe causes minimal tissue reaction in the brain. Birngruber et al., *PLoS One. 2014 Mar 12;9(3).* (click for reprint)

12. Recirculation--a novel approach to quantify interstitial analytes in living tissue by combining a sensor with open-flow microperfusion. Schaupp et al., *Anal Bioanal Chem. 2014 Jan;406(2):549-54.* (click for reprint)

13. Cerebral open flow microperfusion: new in vivo technique for continuous measurement of substance transport across the intact blood-brain barrier. Birngruber et al., *Clin Exp Pharmacol Physiol*. 2013 Dec;40(12):864-71. (click for reprint)