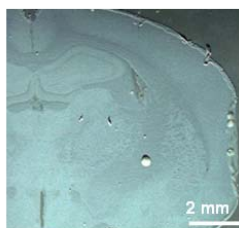


TM-Sprayer™ Tissue MALDI imaging

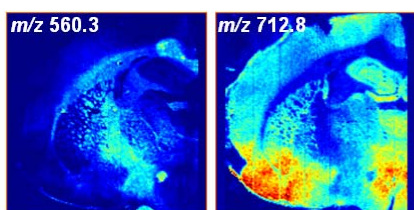
Imaging of Lipids in healthy rat brain

Using LEAP Technologies' TM-Sprayer™ and Applied Biosystems' 4800 MALDI TOF/TOF the team of Dr. Olivier Lapr votte at ICSN is able to produce high resolution images of lipids in rat brain. Future experiments will include applying the technique to specific pathologies and comparing the proteomics make-up of healthy and diseased areas.



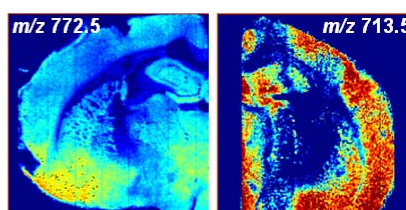
Picture of the rat brain section coated with the HCCA matrix, taken with an optical microscope and a video camera.

MS imaging



m/z 560.3 and 712.8 ions are spatially anti-correlated

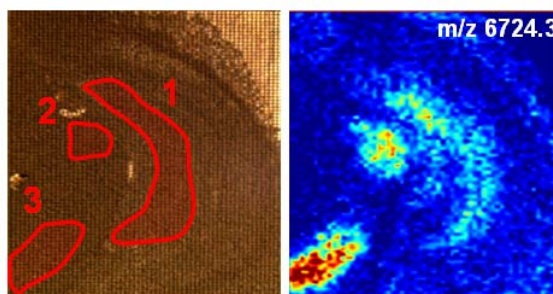
MS MS imaging



Ion at m/z 713.5 corresponds to a MS/MS fragment of the ion at m/z 772.5

Resolution : 50 μ m

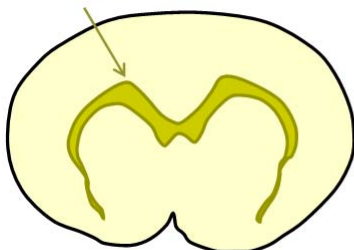
1. Internal capsule
2. Ventral thalamic nucleus
3. Ventromedial hypothalamic nucleus



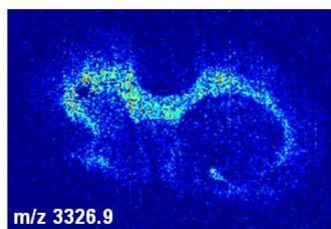
2 mm

Resolution : 75 μ m

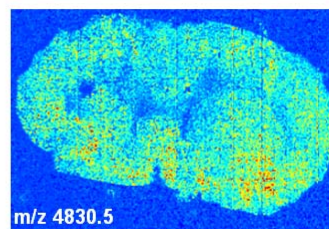
Corpus callosum



Scheme of a rat brain section



m/z 3326.9



m/z 4830.5

Resolution : 50 μ m



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