From Eye to Insight





Brain Research: Correlation of sample morphology and protein analysis

Collect 100% pure starting material for proteomics with cellular precision

Many brain diseases result from protein malfunction, misfolding and agglutination. For this reason protein expression analysis is the key to understanding causes of and discovering therapies for many cerebral defects.

Leica laser microdissection (LMD) systems help you easily obtain sufficient sample quantities from your brain specimen under visual control. Simply identify your regions of interest and directly cut the areas with a guided laser beam for downstream analysis. Areas can be distinct brain regions, single cells or even sub-cellular structures. You can also dissect Alzheimer's Plaques, as depicted in the image, and analyze them by mass spectrometry.

Typical fields of research

- Amyloidosis
- Cancer
- Other diseases
- Plant research

References

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- Cahill et al., Analytical Chemistry, 2016, 88 (11)
- Valleix et al., Nature Commun, 2016, 7
- Drummond et al., Sci Rep, 2015, 5
- Gilbertson et al., J Clin Pathol, 2015, 68 (4)

Improve your protein analysis workflow



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