

Spatial biology multi-omics profiling tools for advanced biomedical research

Spatial biology multi-omics profiling tools

Leading life sciences products and services provider - **AMSBIO** announce the launch of a **custom service** providing access to a suite of powerful **spatial biology multi-omics profiling tools**.



Image caption: Spatial map of cells within tissue - 10x Xenium

NanoString GeoMx DSP

is a new flexible multi-omics platform that enables reliable quantitative assessment of the spatial heterogeneity within various sample types including FFPE, TMAs, and fresh-frozen tissue - with no prequalification required. Tackling the challenge of compromised sample data due to non-target tissue cells, NanoString GeoMx DSP integrates cutting-edge in situ visualization with molecular profiling technologies, eliminating the traditional difficult choice scientists must make between morphological analysis or high-plex in more traditional analysis models. This innovative approach enables researchers to seamlessly integrate workflows with current histology methods, ensuring the generation of robust and reproducible spatial omics data in a time-efficient manner.

For scientists

who wish to visualize protein and whole transcriptome expression, AMSBIO has introduced **10x Visium Digital Spatial Gene Expression**. This exciting new tool allows you to streamline experimentation with a ready-to-use, robust workflow that smoothly integrates into existing laboratory methods with tools for whole tissue section analysis. With 10x Visium you can gain a holistic view of disease complexity, discover new biomarkers, map the spatial organization of cell atlases, and even identify spatiotemporal gene expression patterns.

10x Xenium

is a powerful, new end-to-end spatial platform that enables high-throughput subcellular mapping of thousands of RNA targets alongside multiplexed protein in the same tissue section. With advanced targeted high-plex in situ analysis, 10x Xenium grants scientists the capability to view their samples with subcellular resolution and unprecedented depth analysis, each in the context of their spatial localization patterns. This advanced analysis enables scientists to not only locate



and type cells within their biological context, but also address questions about cell–cell communication, profile cellular microenvironments, and identify rare cell infiltration.

These groundbreaking

spatial biology multi-omics profiling tools from AMSBIO represent a paradigm step forward in the field of biomedical research, offering researchers the means to explore the intricacies of tissue heterogeneity and answer critical biological questions with precision and efficiency.

For laboratories

interested in leveraging these groundbreaking spatial biology techniques - drawing upon the knowledge and expertise of its technical team – AMSBIO can provide expert application support, guidance and help with data analysis.

For further information

on next generation spatial biology multi-omics profiling custom services please visit <https://www.amsbio.com/custom-services/molecular-biology-service/spatial-biology-service> or contact AMSBIO on +31-72-8080244 / +44-1235-828200 / +1-617-945-5033 / info@amsbio.com.

AMS Biotechnology (AMSBIO)

Founded in 1987, AMS Biotechnology (AMSBIO) is recognized today as a leading transatlantic company contributing to the acceleration of discovery through the provision of cutting-edge life science technology, products, and services for R&D in the medical, nutrition, cosmetics, and energy industries. AMSBIO has in-depth expertise in extracellular matrices to provide elegant solutions for studying cell motility, migration, invasion, and proliferation. This expertise in cell culture and the ECM allows AMSBIO to partner with clients in tailoring cell systems to enhance organoid and spheroid screening outcomes using a variety of 3D culture systems, including organ-on-a-chip microfluidics. For drug discovery research, AMSBIO offers assays, recombinant proteins, and cell lines. Drawing upon a huge and comprehensive biorepository, AMSBIO is widely recognized as a leading provider of high-quality tissue specimens (including custom procurement) from both human and animal tissues. The company provides unique clinical grade products for stem cells and cell therapy applications. This includes GMP cryopreservation technology, and high-quality solutions for viral delivery.

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