

This study describes the development of an ingestible pill-based biosensor device, the pill for reactive oxygen species (ROS)-responsive inflammation monitoring (PRIM), that uses ROS-responsive polymers to trigger colored dye ...

Chen et al. integrate sc/snRNA-seq with spatial transcriptomics to characterize cellular composition, lineage dynamics, and spatial architecture in PDAC tissues with varying neural ...

From the Research Microcytosis can affect Hemoglobin A1c (HbA1c) levels, potentially causing falsely elevated readings. Microcytosis, characterized by smaller than normal red blood cells ...

A new study unveils a method to non-invasively monitor cell spatiotemporal dynamics involved in cancer progression in a real-time and label-free manner, which can provide new insights for cancer diagnosis and treatment.

Tumor markers--biomolecules whose levels increase in malignancy and can be measured in blood or other biological tissues and fluids--offer a promising tool. However, the sensitivity and ...

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It was found that key cellular behaviors, including proliferation, migration, and tube formation, in these cell types can be directed by optimum ES at the cell-electrode interface. ES-mediated ...

Adequate potassium levels facilitate the electrical activity within these cells, which is a necessary step for insulin secretion to occur. When blood glucose levels rise, the beta-cells depolarize, ...

Charting the spatiotemporal dynamics of cell fate determination in development and disease is a long-standing objective in biology. Here we present the design, development, and extensive ...

Lima C, Muhamadali H, Goodacre R. Monitoring phenotype heterogeneity at the single-cell level within *Bacillus* populations producing poly-3-hydroxybutyrate by label-free super-resolution ...

This method allows clinicians to accurately count NK cells in a patient's blood or other biological fluids. Monitoring NK cell counts and subset distribution is valuable for diagnosing primary ...



Cell-level monitoring

Sleep health has become a critical issue in current society. This study develops an integrated system for closed-loop management of obstructive sleep apnea. By monitoring cardiovascular ...

MIT researchers led a collaborative project resulting in a new AI system (CellLENS) that reveals hidden patterns in cell behavior within tissues and builds a comprehensive digital profile of ...

Here, an open electrochemical-microfluidic probe (OEMP) is developed for single-cell localized treatment and reactive oxygen species (ROS) dynamics monitoring. The OEMP integrates ...

The Environment Agency has a network of three Mobile Monitoring Facilities (MMFs) in the vicinity of Walleys Quarry Landfill. The MMFs monitor ambient air around the site generally, including the presence of methane and ...

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Cell-level monitoring

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