## **UCI** Beall **Applied Innovation**

**Research Translation Group** 

**Request Information** 

# Spatial Profiling Of Biological Materials Using Time-**Resolved Measurements And Analyses**

**Research Translation Group** 

Tech ID: 34166 / UC Case 2020-609-0

### BRIEF DESCRIPTION

A revolutionary approach to mapping and analyzing DNA, RNA, and proteins within cells and tissues for advanced biological research and clinical diagnostics.

### FULL DESCRIPTION

This technology offers a comprehensive method for the in situ spatial profiling of biological materials, utilizing probes labeled with light-emitting moieties for detailed visualization. Through time-resolved luminescence imaging, it enables precise spatial determination, visualization, and quantification of target biological materials in various samples, enhancing our understanding of biological processes and improving diagnostic accuracy

#### SUGGESTED USES

- » Biomarker discovery and drug development.
- » Clinical pathology and diagnostic imaging
- » Advanced research in cellular and molecular biology.
- » Development of personalized medicine and therapeutic strategies.
- » Educational tools for biological and medical sciences

### **ADVANTAGES**

- >> Enables detailed spatial analysis of complex biological samples.
- » Utilizes distinct luminescence lifetime characteristics for precise identification.
- » Supports a broad range of applications from basic research to clinical diagnostics.
- » Allows for the simultaneous visualization and quantification of multiple targets.
- » Improves biomarker and drug discovery processes through advanced imaging techniques

#### PATENT STATUS

Country	Туре	Number	Dated	Case
United States Of America	Published Application	20230034263	02/02/2023	2020-609

### CONTACT

**Available Technologies** 

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### OTHER INFORMATION

#### CATEGORIZED AS

#### >> Medical

- >> Research Tools
- >> Research Tools
  - » Other

#### RELATED CASES

2020-609-0

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