



# Simoa Technology Introduction and Application in Academic Research

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As protein detection technology continues to evolve, the detection sensitivity has gradually improved from coarse to ultra-sensitive. The detection sensitivity of digital ELISA (Simoa) is 1000 times higher than that of traditional ELISA. The high sensitivity of Simoa technology enables it to detect analytes at extremely low concentrations or protein markers that were previously unmeasurable, making a big impact in our ability to monitor biomarker change in very early stage, paving new research horizons in areas such as life science research. Additionally, it exhibits advantages in monitoring disease identity, severity and progression, particularly in early diagnosis of tumors, immunology, and infectious diseases.

## **Highlights:**

- Bead-based technology introduction and HD-X features
- Planar-based technology introduction and SP-X features
- Simoa application in different fields: oncology, infectious disease, inflammation and etc

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