

# SURFACE PLASMON RESONANCE

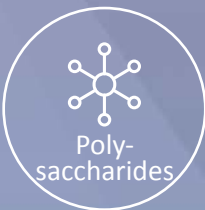
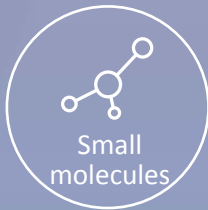
A proven, direct, label-free methods to describe molecular interactions

## What is Surface Plasmon Resonance?

The surface plasmon resonance (SPR) technique allows real-time, label-free detection of biomolecular interactions. Based on the Biacore system, SPR is used to monitor the interactions between DNA and protein, protein and protein, drug and protein, nucleic acid and nucleic acid, antigen and antibody, receptor and ligand, etc.

SPR occurs when polarized light strikes an electrically conducting surface at the interface between two media. This generates electron charge density waves called plasmons, reducing the intensity of reflected light at a specific angle known as the resonance angle, in proportion to the mass on a sensor surface.

SPR has a wide range of applications in life sciences, medical testing, drug screening, food testing, environmental monitoring, drug testing, and forensic identification.



Researchable Biomolecules

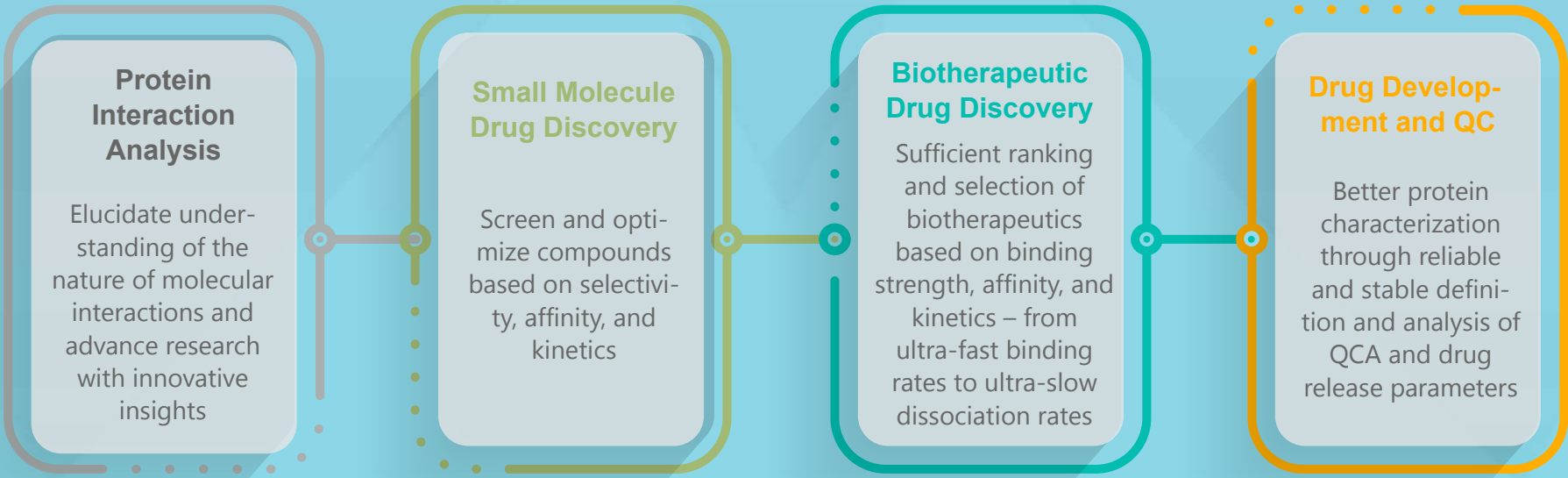


## Instrument Platform

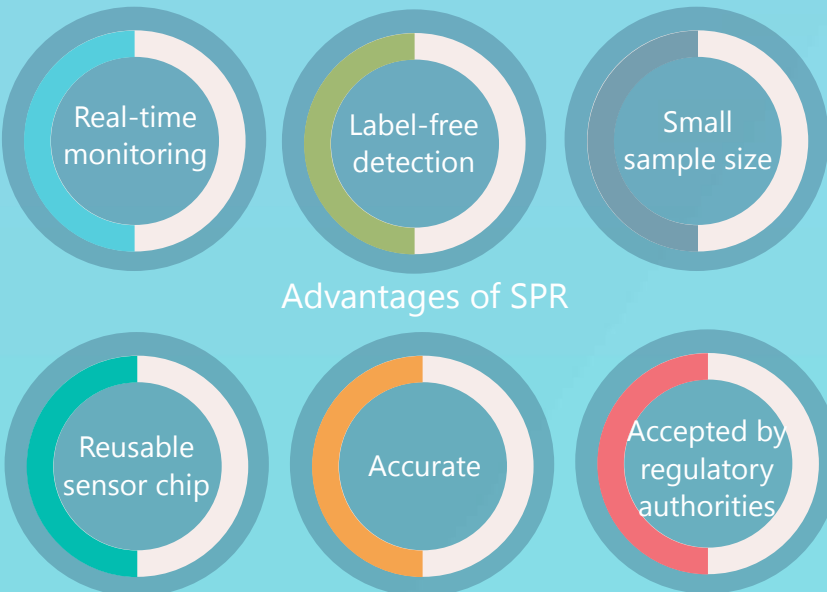
The Biacore T200 is a label-free system based on SPR technology that can track biomolecular interactions in real-time, which can be used in early drug research and development as well as downstream production quality control.



## SPR Key Application Areas



Creative Proteomics's research team can provide professional and high-quality **Biacore service** for our customers. In addition to utilizing an accurate and sensitive Biacore platform, we also provide analytical reports and data collection services for experimental processing. We are committed to providing our optimum expertise in various analyses and helping solve challenges related to molecular interaction and analysis.



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