



# OPENSPR-XT™

**PUBLISH FASTER WITH AUTOMATED BINDING KINETICS & AFFINITY ON YOUR BENCHTOP**



## BENCHTOP

Avoid costly & inconvenient core facilities with our affordable benchtop solution



## AUTOMATED

Maximize your productivity with our premade workflows & user-friendly software



## REAL-TIME DATA

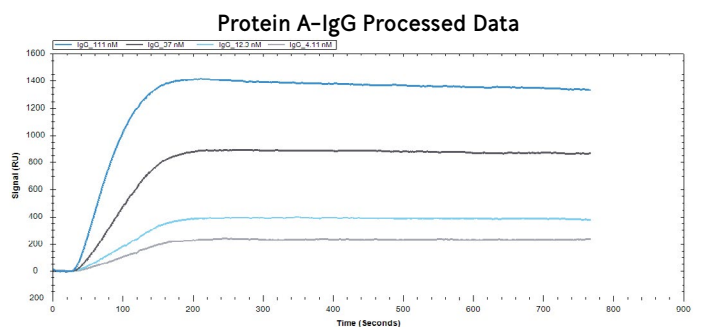
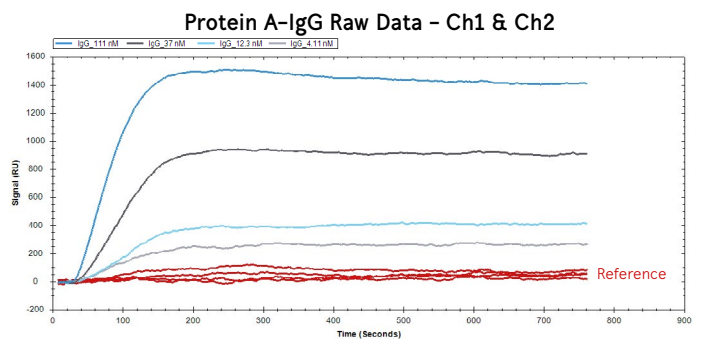
Publish faster with label-free binding kinetics & affinity data



## RELIABLE

Get publication quality data with the highest level of consistency & repeatability

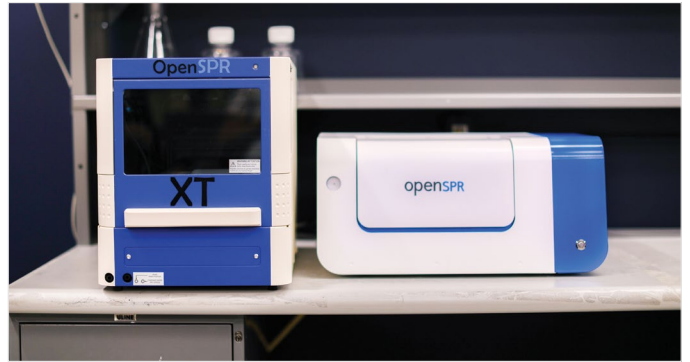
FIND THE DATA THAT YOUR PUBLICATION IS MISSING



## SENSORS

SAVE TIME AND OPTIMIZE EASILY WITH A WIDE-RANGE OF AFFORDABLE SENSOR CHIPS:

- Plain Gold
  - Carboxyl
  - NTA
  - Streptavidin
  - Biotin
  - GST
  - Protein A
  - Amine
  - Thiol
  - Liposome Binding (LIP)
  - Hydrophobic (MEM)
- High Sensitivity Sensors available for demanding applications*



Nicoya Lifesciences' OpenSPR-XT™

## TECHNICAL SPECS

### PERFORMANCE

Association Rate ( $k_{on}$ )	$1 \times 10^3 - 1 \times 10^7$ 1/M*s
Dissociation Rate ( $k_{off}$ )	$0.1 - 1 \times 10^{-5}$ 1/s
Affinity Range ( $K_D$ )	mM-pM

### HARDWARE SPECS

# of Channels	2
Flow Rate	5-200 $\mu$ L/min
Injection	Automated
Injection Volume	5-100 $\mu$ L
Sample Capacity	2x 96 well plates, 2/10 mL vials
Sample Temperature	Cooled from 20°C-4°C
Unattended Run Time	24 hours
Temperature Range	10°C-40°C (max 10°C<ambient)
Temperature Precision	+/- 0.25°C
Buffer Switching	3 ports available, automated switching
Instrument Size	78 x 55 x 53 cm
File Output	CSV, Tracedrawer

## APPLICATIONS

- Kinetics/affinity characterization
- Competition assays
- Target identification
- Epitope mapping
- Screening
- Yes/No binding
- Concentration

## COMPATIBLE WITH

- Proteins
- Lipids
- Carbohydrates
- Antibodies
- Nucleic acids
- Small molecules
- Cells
- Viruses
- Nanoparticles
- & more

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